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EDITION 2

Partners Worldwide

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DRIVE-15A

Order No. 1000195



Professional active DSP speaker system with 2-channel amplifier, 360 W

- Compact 15/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- 38 cm (15") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- M8 threaded inserts, stand sleeve

Model	DRIVE-15A
Total output power	750 W
Power rating (RMS)	DSP-controlled 360 W (300 + 60) bass: 300 W treble: 60 W
Frequency range	40-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/550 VA
Dimensions	415 x 695 x 455 mm
Weight	22.04 kg
Inputs	1 x comb. XLR/6.3 mm: line 1 x XLR: line

- Volume control
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out
- Power and clip indicator



DRIVE-12A

Order No. 1000194

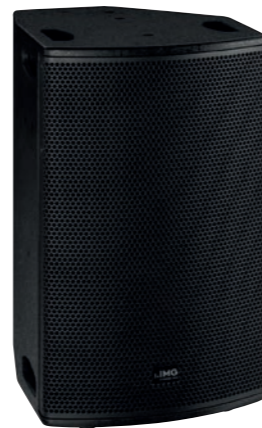


Professional active DSP speaker system with 2-channel amplifier, 350 W

- Compact 12/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- M8 threaded inserts, stand sleeve

Model	DRIVE-12A
Total output power	700 W
Power rating (RMS)	DSP-controlled 350 W (290 + 60) bass: 290 W treble: 60 W
Frequency range	45-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/510 VA
Dimensions	360 x 620 x 380 mm
Weight	17.04 kg

- 30 cm (12") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out



DRIVE-10A

Order No. 1000193

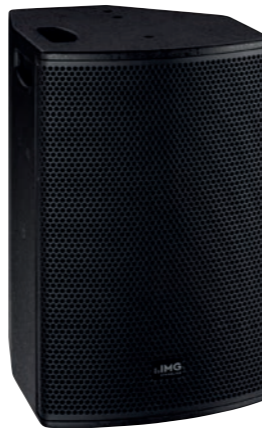


Professional active DSP speaker system with 2-channel amplifier, 200 W

- Compact 10/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- M8 threaded inserts, stand sleeve

Model	DRIVE-10A
Total output power	400 W
Power rating (RMS)	DSP-controlled 200 W (140 + 60) bass: 140 W treble: 60 W
Frequency range	55-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/350 VA
Dimensions	320 x 530 x 350 mm
Weight	12.18 kg

- 25 cm (10") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out



DRIVE-08A

Order No. 1000192



Professional active DSP speaker system with 2-channel amplifier, 200 W

- Compact 8/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- M8 threaded inserts, stand sleeve

Model	DRIVE-08A
Total output power	400 W
Power rating (RMS)	DSP-controlled 200 W (140 + 60) bass: 140 W treble: 60 W
Frequency range	60-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/250 VA
Dimensions	270 x 460 x 290 mm
Weight	9.4 kg

- 20 cm (8") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out



DRIVE-15P

Order No. 1000199



Professional PA speaker system, 700 W

- Compact 15/2 full range system with cabinet made of birch plywood
- 38 cm (15") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-15P
Total power rating	700 W
Power rating (RMS)	350 W
Impedance	8 Ω
Frequency range	40-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	415 x 695 x 455 mm
Weight	20.72 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



DRIVE-12P

Order No. 1000197



Professional PA speaker system, 500 W

- Compact 12/2 full range system with cabinet made of birch plywood
- 30 cm (12") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-12P
Total power rating	500 W
Power rating (RMS)	250 W
Impedance	8 Ω
Frequency range	45-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	360 x 620 x 380 mm
Weight	15.9 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



DRIVE-10P

Order No. 1000198



Professional PA speaker system, 400 W

- Compact 10/2 full range system with cabinet made of birch plywood
- 25 cm (10") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-10P
Total power rating	400 W
Power rating (RMS)	200 W
Impedance	8 Ω
Frequency range	55-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	320 x 530 x 350 mm
Weight	11.25 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



DRIVE-08P

Order No. 1000196



Professional PA speaker system, 300 W

- Compact 8/2 full range system with cabinet made of birch plywood
- 20 cm (8") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-08P
Total power rating	300 W
Power rating (RMS)	150 W
Impedance	8 Ω
Frequency range	60-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	270 x 460 x 290 mm
Weight	8.43 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



FLAT-M8

Order No. 1000766



Active PA stage monitor speaker system, 300 W

- Flat and very compact full range system
- Fitted with a 20 cm (8") coaxial speaker with horn tweeter
- Class D amplifier system
- Sound pressure at nominal power: 121 dB
- Indication of protect, limiter, signal and power-on
- Volume control and 3-way tone control (bass, midrange and treble)
- Balanced line/mic input and feed-through output
- Unbalanced line input RCA L/R or 6.3 mm jack
- Switchable automatic power-off
- High-quality plywood cabinet with protective metal grille
- M10 threaded insert for stand adapter or mounting device

Model	FLAT-M8
Total output power	300 W
Power rating (RMS)	100 W
Frequency range	70-21,000 Hz
THD	-
S/N ratio	-
Input signal	180 mV/5,6 kΩ (line, bal.), 180 mV/5,6 kΩ (aux, RCA) 1.5 mV/1.2 kΩ (mic, bal.), 70 mV/4 kΩ (aux, 6.3 mm jack, asym.)
SPL	99 dB/W/m
Mounting device	1 x M10 threaded insert
Power supply	~ 230 V/50 Hz/100 VA
Dimensions	375 x 185 x 330 mm
Weight	7.3 kg
Inputs	1 x comb. XLR/6.3 mm (mic), 1 x comb. XLR/6.3 mm (line), 1 x RCA L/R, 1 x 6.3 mm stereo jack
Outputs	1 x XLR direct out



FLAT-M100

Order No. 0259590



Active PA stage monitor speaker system, 200 W

- Flat and very compact full range system
- Fitted with 2 x 10 cm (FaitalPRO, 2 x 4") full range speaker with neodymium magnets
- Class D amplifier system
- Sound pressure at nominal power: 116 dB
- Indication of signal and limiter
- Volume control and tone control
- Balanced line/mic input and feed-through output
- High-quality multiplex wooden cabinet with protective metal grille
- 2 x M10 and 2 x M6 threaded inserts for stand adapter or mounting device
- Supplied with clamp for mounting, e.g. onto a microphone stand

Model	FLAT-M100
Total output power	200 W
Power rating (RMS)	100 W
Frequency range	90-20,000 Hz
Input signal	16 mV/28 kΩ (line, bal.), 5 mV/20 kΩ (mic, bal.)
SPL	97 dB/W/m
Mounting device	2 x M10 threaded insert, 2 x M6 threaded insert
Power supply	~ 230 V/50 Hz/175 VA
Dimensions	265 x 120 x 192.5 mm
Weight	2.4 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR link out



FLAT-M100BAG

Order No. 0179030

Transport and protective bag

- Suitable for active PA stage monitor speaker system FLAT-M100
- Black, partly padded nylon version with zip fastener
- Carrying handle, rubber feet and lateral cable bag



FLAT-M8BAG

Order No. 1000771

Transport and protective bag

- Suitable for active PA stage monitor speaker system FLAT-M8
- Black, partly padded nylon version with zip fastener
- Carrying handle, rubber feet and lateral cable bag



FLAT-M200

Order No. 0259876



Active PA stage monitor speaker system, 300 W

- Flat and very compact full range system
- Fitted with 4 x 10 cm (FaitalPRO, 4 x 4") full range speaker with neodymium magnets
- Class D amplifier system
- Sound pressure at nominal power: 122 dB
- Indication of signal and limiter
- Volume control and tone control
- Balanced line/mic input and feed-through output
- High-quality multiplex wooden cabinet with protective metal grille
- 2 x M10 and 2 x M6 threaded inserts for stand adapter or mounting device
- Supplied with clamp for mounting, e.g. onto a microphone stand

Model	FLAT-M200
Total output power	300 W
Power rating (RMS)	200 W
Frequency range	70-20,000 Hz
Input signal	25 mV/28 kΩ (line, bal.), 6 mV/20 kΩ (mic, bal.)
SPL	98 dB/W/m
Mounting device	2 x M10 threaded insert, 2 x M6 threaded insert
Power supply	~ 230 V/50 Hz/356 VA
Dimensions	320 x 150 x 250 mm
Weight	4.11 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR link out



FLAT-M200BAG

Order No. 0179260

Transport and protective bag

- Suitable for active PA stage monitor speaker system FLAT-M200
- Black, partly padded nylon version with zip fastener
- Carrying handle, rubber feet and lateral cable bag



MIRA-1/1

Order No. 1000200



Active column PA speaker system class D, 1,100 W

- Compact full range system with subwoofer and a full range column module
- 6 x 7.6 cm (3") midrange speaker + 2 x 2.5 cm (1") tweeter in a bass-reflex cabinet
- 1 x 30 cm (12") subwoofer in a separate bass-reflex cabinet
- 2-channel class D amplifier system with a power rating of 400 + 150 W
- 1 line input, XLR, balanced
- RCA input L/R, unbalanced
- 1 parallel line out, XLR, balanced
- Selectable crossover frequency: 30-200 Hz
- Separate volume control for subwoofer and column module
- Robust wooden cabinet with protective metal grille
- Scope of accessories includes connection cable for full range module
- Including intermediate piece with M20 thread

Model	MIRA-1/1
Total output power	1,100 W
Power rating (RMS)	550 W (400+150) bass: 400 W mid-high range: 150 W
Frequency range	35-20,000 Hz
THD	< 0.06% (sub) < 0.07% (sat)
Input signal	400 mV/21 kΩ (line), 400 mV/12 kΩ (aux)
SPL	98 dB/W/m
Beam angle	hor.: 120°, vert.: 30°
Power supply	~ 230 V/50 Hz/760 VA
Dimensions	110 x 720 x 145 mm (column module) 345 x 520 x 450 mm (subwoofer)
Weight	30 kg
Inputs	1 x XLR (line) 1 x RCA (L/R)
Outputs	1 x XLR, par. out



ENANO-1

Order No. 1000653



Portable Bluetooth speaker

- Speaker driver: 5 W/4 Ω
- Powerful sound
- Bluetooth V.5.0, operating range: up to 10 m
- Waterproof, IPX7
- FM radio
- Supports hands-free equipment
- Built-in rech. battery, 1,200 mAh
- Operating time at maximum volume: up to 6 hours
- SD card up to 32 GB, AUX connection, TWS function
- Supplied with 12 cm charging cable, USB Type-A to micro USB

Model	ENANO-1
THD	≤ 5%
S/N ratio	≥ 88 dB
Transmitting power	-
Bluetooth	V.5.0
Operating range	≤ 10 m
Profiles	A2DP, AVRCP, HSP
Codecs	MP3, WAV
Power supply	= 5 V/500 mA (USB), = 3.7 V/1,200 mAh (rech. lithium batt.)
Dimensions	135 x 64 x 72 mm
Weight	353 g
Connections	3.5 mm jack (AUX), micro USB (power supply), micro SD card slot



CALDERA-T6

Order No. 1000295



Pair of active studio and recording speakers, 2 x 100 W

- 2-way active circuit per speaker system with separate power amplifiers for subwoofer and tweeter (bi-amping)
- Amplifier power rating bass: 30 W, treble: 25 W
- Maximum output power total: 100 W
- Bass-reflex MDF cabinet, laminated surface
- 16 cm bass-midrange speaker with green polypropylene cone and 25 mm soft dome tweeter
- Each speaker system is equipped with a balanced XLR input and jack input (6.3 mm), all with gain control
- Volume control
- Ideally suited as studio monitor speakers for recording, audio/video presentations and home hi-fi

Model	CALDERA-T6
Total output power	100 W
Power rating (RMS)	55 W
Frequency range	50-20,000 Hz
Input signal	1,500 mV/32 kΩ (bal.)
SPL	89 dB/W/m
Beam angle	H: 120°/V: 100°
Power supply	~ 230 V/50 Hz/110 VA
Dimensions	210 x 320 x 255 mm
Weight	7 kg
Inputs	1 x XLR, bal., IN (each speaker system) 1 x 6.3 mm jack, bal., IN (each speaker system)



CALDERA-B10

Order No. 1000303



Active subwoofer for hi-fi and recording, 400 W

- Vivid and powerful active subwoofer as an addition to active speakers CALDERA-T6 but also to any other compact speaker in the field of hi-fi, home cinema and home recording
- Volume control for level adjustment
- Adjustable crossover frequency: 90-180 Hz
- High-quality bass-reflex MDF cabinet (black wood veneer finish)
- 25 cm (10") high-performance bass speaker
- Balanced inputs A and B via XLR or 6.3 mm jack
- Parallel balanced outputs A and B for top speakers with switchable high-pass filter
- Parallel output XLR or 6.3 mm jack for connecting an additional subwoofer

Model	CALDERA-B10
Total output power	400 W
Power rating (RMS)	300 W
Frequency range	25-180 Hz
Input signal	300 mV/11 kΩ (bal.)
SPL	88 dB/W/m
Power supply	~ 230 V/50 Hz/560 VA
Dimensions	350 x 375 x 430 mm
Weight	16 kg
Inputs	2 x combo XLR/6.3 mm jack, bal.
Outputs	2 x line OUT XLR 2 x line OUT 6.3 mm jack 1 x SUB OUT XLR 1 x SUB OUT 6.3 mm jack



DM-710

Order No. 1000610



Dynamic microphone, for speech and vocals.

- Cardioid polar pattern
- Neodymium version
- Frequency range: 50-15,000 Hz
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-710
Polar pattern	cardioid
System	dynamic, neodymium
Audio frequency range	50-15,000 Hz
Nominal impedance	600 Ω
Sensitivity	2.5 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 48 mm x 182 mm
Weight	281 g
Connection	XLR, bal.



DM-710S

Order No. 1000611



Dynamic microphone, for speech and vocals.

- Cardioid polar pattern
- Neodymium version
- Frequency range: 50-15,000 Hz
- Slide potentiometer
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-710S
Polar pattern	cardioid
System	dynamic, neodymium
Audio frequency range	50-15,000 Hz
Nominal impedance	600 Ω
Sensitivity	2.5 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 48 mm x 182 mm
Weight	271 g
Connection	XLR, bal.



DM-720

Order No. 1000612



Dynamic microphone, for vocals.

- Cardioid polar pattern
- Neodymium version
- Frequency range: 80-12,000 Hz
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-720
Polar pattern	cardioid
System	dynamic, neodymium
Audio frequency range	80-12,000 Hz
Nominal impedance	600 Ω
Sensitivity	3.1 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 48 mm x 182 mm
Weight	293 g
Connection	XLR, bal.



DM-720S

Order No. 1000613



Dynamic microphone, for vocals.

- Cardioid polar pattern
- Neodymium version
- Frequency range: 80-12,000 Hz
- Sliding switch
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-720S
Polar pattern	cardioid
System	dynamic, neodymium
Audio frequency range	80-12,000 Hz
Nominal impedance	600 Ω
Sensitivity	3.1 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 48 mm x 182 mm
Weight	283 g
Connection	XLR, bal.



DM-730

Order No. 1000614



Dynamic microphone, for vocals (PA, stage, DJ).

- Supercardioid polar pattern
- Neodymium version
- Frequency range: 50-18,000 Hz
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-730
Polar pattern	supercardioid
System	dynamic, neodymium
Audio frequency range	50-18,000 Hz
Nominal impedance	300 Ω
Sensitivity	2.3 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 48 mm x 182 mm
Weight	290 g
Connection	XLR, bal.



DM-730S

Order No. 1000615



Dynamic microphone, for vocals (PA, stage, DJ).

- Supercardioid polar pattern
- Neodymium version
- Frequency range: 50-18,000 Hz
- Slide potentiometer
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-730S
Polar pattern	supercardioid
System	dynamic, neodymium
Audio frequency range	50-18,000 Hz
Nominal impedance	300 Ω
Sensitivity	2.3 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 48 mm x 182 mm
Weight	279 g
Connection	XLR, bal.



SONIDO

Order No. 1000599



Bluetooth stereo headset

- For universal use
- Bluetooth version V5.0, 2.4 GHz, operating range: 10 m
- Wired operation also possible
- Built-in microphone
- Closed system
- Padded ear cushions and headrest
- Accessories include a transport case, 1.3 m connection cable (2 x 3.5 mm plug), 0.6 m charging cable (USB Type-A to micro USB)

Model	SONIDO
Transmission method	Bluetooth
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	108 dB/mW
Power supply	built-in 3.7 V rech. Li-ion polymer battery 400 mAh charging time: approx. 2 hours Standby time: approx. 60 hours Call time: approx. 15 hours Music time: approx. 15 hours
Cable	1.3 m connection cable (3.5 mm/3.5 mm) 0.6 m charging cable (USB Type-A/micro USB)
Weight w/o cable	240 g



BAXX/SW

Order No. 1000668



Bluetooth stereo headset

Enjoy your wireless music in excellent quality and never miss a call. The BAXX/SW is compatible with all Bluetooth-enabled devices. Devices can also be connected via the 3.5 mm line input. The headphones feature a sensitive high-performance microphone and allow you to make hands-free phone calls. Volume, music and telephone functions are controlled directly via the push-buttons of the BAXX/SW. The comfortable ear pads ensure a secure fit on the ear and provide reliable shielding against ambient noise. They are adjustable and very comfortable to wear.

- Bluetooth version 5
- Operating range: approx. 10 m
- Profiles: HSP, HFP, A2DP, AVRCP
- Audio input via 3.5 mm jack
- Sensitive high-performance microphone
- Push-button control for volume, music and telephone functions
- Comfortable, adjustable ear pads

Model	BAXX/SW
Transmission method	Bluetooth, cable
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Power supply	5 V= via micro USB
Weight w/o cable	202 g

- Very comfortable to wear
- Micro USB charging socket
- Status LED blue/red
- Integrated lithium battery: 180 mAh
- Operating time: up to 6 hours
- Product weight: 203 g
- Supplied with micro USB charging cable



TWS-DIMA/SW

Order No. 1000669



True wireless in-ear headset

- True wireless technology: individual units are connected automatically to a stereo device after activation
- Full stereo sound with an excellent sound quality
- Practical charging case with integrated rech. battery can also be used as a mobile charger
- Charging case to be charged via micro USB port
- Can be used either individually (mono) or with both units as a full stereo headset
- Bluetooth version 5.0

Model	TWS-DIMA/SW
Transmission method	Bluetooth
Transmission range, headphones	20-20,000 Hz
Power supply	5 V= via micro USB
Weight w/o cable	1.3 g (headset) 27.4 g (charging case)

- Operating range: up to 10 m
- Profiles: HSP, HFP, A2DP, AVRCP
- Built-in high-performance microphone
- Status LED: blue/red
- Rech. battery: headset: 40 mAh, charging case: 350 mAh



TCB-22

Order No. 1000265



2-channel audio balancing transformer

An unbalanced audio signal is passively converted (without power supply) into a balanced signal by means of an audio transformer (doubled in the device).

In addition, a DIP switch can be used to generate a mono signal (lossless, because it is not coupled via resistors) from two input signals (stereo).

The device can also be operated in the opposite direction, i.e. unbalanced signals can be generated from balanced signals. The only thing required is the XLR/XLR adapter NA-3FF which is available at option.

Model	TCB-22
Frequency range	6-25,000 Hz
Input signal	15 V max.
Input impedance	5.3 kΩ/1 kHz
Output impedance	5.4 kΩ/1 kHz
Transmission ratio	1:1
Dimensions	88 x 36 x 83 mm
Weight	318 g

- RCA and 3.5 mm stereo inputs
- 3-pole XLR outputs
- 2-pole DIP switches for switching as a stereo/mono converter
- Black metal housing



VM-1

Order No. 1000616



Electret shotgun microphone, for GoPro cameras and video cameras.

- For excellent recordings at film and video productions
- Space-saving and easy to install
- Wide frequency range 20-20,000 Hz combined with a high sensitivity
- Well-balanced sound with high speech intelligibility and excellent directivity
- Power supply 1.5 V via camera or power supply adapter EMA-20, available at option
- Supplied with microphone adapter for GoPro/camera [GoPro up to Hero 4 only, USB adapter required from Hero 5 on (GoPro accessories)], microphone windshield, adapter cable to mini USB, adapter cable to 3.5 mm plug

Model	VM-1
Polar pattern	supercardioid
System	back electret
Power supply	≥ 1.5 V
Audio frequency range	20-20,000 Hz
Nominal impedance	2.2 kΩ
Sensitivity	10 mV/Pa
S/N ratio	69 dB
Max. sound pressure	125 dB
Power supply	via GoPro/camera
Housing material	diecast zinc
Dimensions	Ø 14 mm x 57.5 mm
Weight	23.5 g
Cable	15 cm (mini XLR jack to mini USB plug) 15 cm (mini XLR jack to 3.5 mm plug)
Connection	3-pole mini XLR, unbal.



HOMEX-1

Order No. 1000747



USB small diaphragm condenser microphone, for home recording and presentation.

- For operating directly at a PC or laptop
- No driver installation required, device will be identified automatically
- Integrated high-quality A/D converter: 48 kHz/16 bits
- 1.25 cm (1/2") diaphragm
- Stepless crossfading control (monitor and PC) with mute button
- Adjustable 3.5 mm stereo headphone output
- Microphone desk stand with 9 mm (3/8") tripod socket and microphone holder with 16 mm (5/8") to 9 mm (3/8") adapter screw
- Supplied with 1.8 m USB connection cable
- Suitable for Windows or Mac

Model	HOMEX-1
Polar pattern	cardioid
System	electret condenser
Audio frequency range	20-20,000 Hz
Sensitivity	16 mV/Pa
S/N ratio	> 87 dB
Max. sound pressure	130 dB
Power supply	= 5 V via USB interface
Housing material	diecast zinc
Dimensions	Ø 57 mm x 210 mm
Weight	470 g
Cable	1.8 m
Connection	USB Type-B jack



Microphones

Large Diaphragm Microphones

ECMS-90

Order No. 0236970

Large diaphragm condenser microphone, for professional studio applications.

- 2.8 cm (1.1") extra thin gold-plated diaphragm
- Low cut switch
- 10 dB attenuation, switchable
- 48 V phantom power
- Supplied with vibration absorbing support (spider) with 16 mm (5/8") tripod socket and 9 mm (3/8") adapter screw, microphone windshield and leather bag
- Supplied in a foam-padded case

Model	ECMS-90
Polar pattern	cardioid
System	condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	200 Ω
Sensitivity	20 mV/Pa
S/N ratio	78 dB
Max. sound pressure	135 dB
Power supply	= 48 V, phantom power
Housing material	metal
Dimensions	Ø 50 mm x 185 mm
Weight	430 g
Connection	XLR, bal.



ECMS-70

Order No. 0236960

Large diaphragm condenser microphone, for professional studio applications.

- 2.5 cm (1") extra thin gold-plated diaphragm
- 48 V phantom power
- Supplied with vibration absorbing support (spider) with 16 mm (5/8") tripod socket and 9 mm (3/8") adapter screw, microphone windshield and leather bag

Model	ECMS-70
Polar pattern	cardioid
System	condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	150 Ω
Sensitivity	20 mV/Pa
S/N ratio	78 dB
Max. sound pressure	132 dB
Power supply	= 48 V, phantom power
Housing material	metal
Dimensions	Ø 50 mm x 185 mm
Weight	310 g
Connection	XLR, bal.



ECMS-60

Order No. 0236950

Large diaphragm condenser microphone, for professional studio applications.

- Compact design
- 2.5 cm (1") extra thin gold-plated diaphragm
- 48 V phantom power
- Supplied with microphone support with 16 mm (5/8") tripod socket and 9 mm (3/8") adapter screw and leather bag

Model	ECMS-60
Polar pattern	cardioid
System	FET condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	200 Ω
Sensitivity	17.8 mV/Pa
S/N ratio	> 70 dB
Max. sound pressure	125 dB
Power supply	= 48 V, phantom power
Housing material	metal
Dimensions	Ø 50 mm x 130 mm
Weight	290 g
Connection	XLR, bal.



ECMS-50USB

Order No. 0236940



Large diaphragm USB condenser microphone, for ambitious home recording.

- For operating directly at a PC or laptop
- No driver installation required, device will be identified automatically
- Integrated high-quality A/D converter: 48 kHz/16 bits
- 2.5 cm (1") extra thin gold-plated diaphragm
- Supplied with vibration absorbing support (spider) with 16 mm (5/8") tripod socket and 9 mm (3/8") adapter screw, 1.8 m USB connection cable and leather bag
- Suitable for Windows 2000/XP/Vista/7/8/10 or Mac OS X

Model	ECMS-50USB
Polar pattern	cardioid
System	electret condenser
Audio frequency range	20-18,000 Hz
Sensitivity	25 mV/Pa
S/N ratio	> 78 dB
Max. sound pressure	138 dB
Power supply	= 5 V via USB interface
Housing material	metal
Dimensions	Ø 50 mm x 185 mm
Weight	250 g
Cable	1.8 m
Connection	USB Type-B jack



MX-110

Order No. 0203160



1-channel USB recording interface

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 1 mono input channel with XLR input (mic) and 6.3 mm input (switchable mic/line)
- Selectable 20 dB attenuation and LED level display
- 1 additional stereo input
- 1 x 6.3 mm jack output L/R
- 1 x 3.5 mm stereo jack output
- Adjustable headphone output
- +48 V phantom power, can be activated as required
- Stereo LED level display
- Robust metal housing of compact size

Model	MX-110
Mic input	2.5 mV, 1 x 3-pole XLR
Line input	45 mV, 1 x 6.3 mm jack 11 kΩ (line)/460 kΩ (inst.)
Aux input	1.25 V, 1 x 3.5 mm jack
Master output	500 mV, 1 x 6.3 mm jack L/R
Aux output	500 mV, 1 x 3.5 mm jack
Headphones	≥ 16 Ω, 1 x 3.5 mm jack
Frequency range	20-20,000 Hz
THD	≤ 0.03%
Crosstalk	92 dB
Power supply	via USB interface = 5 V/500 mA
Dimensions	120 x 50 x 110 mm
Weight	498 g



MX-210

Order No. 0203170



2-channel USB recording interface

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 2 mono input channels with XLR input (mic) and 6.3 mm input (switchable mic/line)
- Selectable 20 dB attenuation and LED level display
- Input channels switchable mono/stereo
- 1 additional stereo input
- 1 x 6.3 mm jack output L/R
- 1 x 3.5 mm jack stereo output
- Adjustable headphone output

Model	MX-210
Mic input	2.5 mV, 2 x 3-pole XLR
Line input	45 mV, 1 x 6.3 mm jack 11 kΩ (line)/460 kΩ (inst.)
Aux input	1.25 V, 1 x 3.5 mm jack
Master output	500 mV, 2 x 6.3 mm jack L/R
Aux output	500 mV, 1 x 3.5 mm jack
Headphones	≥ 16 Ω, 1 x 3.5 mm jack
Frequency range	20-20,000 Hz
THD	≤ 0.03%
Crosstalk	92 dB
Power supply	via USB interface = 5 V/500 mA
Dimensions	160 x 50 x 110 mm
Weight	634 g

- +48 V phantom power, can be activated as required for each channel
- Stereo LED level display
- Robust metal housing of compact size



DM-9

Order No. 0237211

Dynamic microphone, for stage and vocals.

- Supercardioid polar pattern
- Neodymium version
- Active Handling Noise Cancelling technology (AHNC) for minimising handling noise
- Humbucker coil for minimising electromagnetic interference
- Aluminium body
- Supplied with microphone holder

Model	DM-9
Polar pattern	supercardioid
System	dynamic
Audio frequency range	50-18,000 Hz
Nominal impedance	600 Ω
Sensitivity	2 mV/Pa
Max. sound pressure	142 dB
Housing material	aluminium
Dimensions	Ø 55 mm x 181 mm
Weight	330 g
Connection	XLR, bal.



DM-9S

Order No. 0237212

Dynamic microphone, for stage and vocals.

- Supercardioid polar pattern
- Neodymium version
- Active Handling Noise Cancelling technology (AHNC) for minimising handling noise
- Humbucker coil for minimising electromagnetic interference
- Innovative, low-noise slide potentiometer switch
- Aluminium body
- Supplied with microphone holder

Model	DM-9S
Polar pattern	supercardioid
System	dynamic
Audio frequency range	50-18,000 Hz
Nominal impedance	600 Ω
Sensitivity	2 mV/Pa
Max. sound pressure	142 dB
Housing material	aluminium
Dimensions	Ø 55 mm x 181 mm
Weight	330 g
Connection	XLR, bal.



DM-7

Order No. 0237210

Dynamic microphone, for stage and vocals.

- Supercardioid polar pattern
- Metal body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-7
Polar pattern	supercardioid
System	dynamic
Audio frequency range	50-18,000 Hz
Nominal impedance	250 Ω
Sensitivity	1.8 mV/Pa
Max. sound pressure	130 dB
Housing material	metal
Dimensions	Ø 51 mm x 182 mm
Weight	315 g
Connection	XLR, bal.



CM-7

Order No. 0237200

Condenser microphone, for studio and live applications.

- 17 mm gold-plated small diaphragm
- Cardioid polar pattern
- Metal body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	CM-7
Polar pattern	cardioid
System	condenser
Audio frequency range	50-18,000 Hz
Nominal impedance	100 Ω
Sensitivity	14 mV/Pa
Max. sound pressure	137 dB
Power supply	= 48 V phantom power
Housing material	metal
Dimensions	Ø 51 mm x 182 mm
Weight	280 g
Connection	XLR, bal.



DM-3

Order No. 0237220

Dynamic microphone, for stage, speech and vocals.

- Supercardioid polar pattern
- Neodymium version
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-3
Polar pattern	supercardioid
System	dynamic
Audio frequency range	50-15,000 Hz
Nominal impedance	600 Ω
Sensitivity	2.2 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 53 mm x 177 mm
Weight	255 g
Connection	XLR, bal.



DM-3S

Order No. 0237230

Dynamic microphone, for stage, speech and vocals.

- Supercardioid polar pattern
- Neodymium version
- Low-noise on/off switch
- Diecast zinc body
- Supplied with microphone holder, 9 mm (3/8") adapter screw and microphone bag

Model	DM-3S
Polar pattern	supercardioid
System	dynamic
Audio frequency range	50-15,000 Hz
Nominal impedance	600 Ω
Sensitivity	2.2 mV/Pa
Housing material	diecast zinc
Dimensions	Ø 53 mm x 177 mm
Weight	255 g
Connection	XLR, bal.



DM-101

Order No. 0236550

Dynamic microphone, vintage style.

- Supercardioid polar pattern
- Dual microphone cartridges for an authentic sound
- Innovative cartridge suspension with excellent attenuation characteristics
- Robust zinc body of high quality
- Low-noise on/off switch

Model	DM-101
Polar pattern	supercardioid
System	dynamic
Audio frequency range	50-12,000 Hz
Nominal impedance	1.2 kΩ
Sensitivity	5 mV/Pa
Max. sound pressure	119 dB
Housing material	zinc alloy
Dimensions	204 x 68 x 74 mm
Weight	740 g
Connection	XLR, bal.



DM-065

Order No. 0235740

Nostalgic dynamic microphone, retro look of the 50s/60s.

- For stage, speech and vocals
- Cardioid polar pattern
- Low-noise on/off switch
- Chromium-plated version
- Supplied with foam-padded plastic case

Model	DM-065
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,000 Hz
Nominal impedance	250 Ω
Sensitivity	1.3 mV/Pa
Max. sound pressure	135 dB
Housing material	metal, silver
Dimensions	54 x 175 x 68 mm
Weight	547 g
Connection	XLR, bal.



DM-5000LN

Order No. 0230400

Dynamic microphone, for stage and vocals.

- Supercardioid polar pattern
- Highly sensitive neodymium magnet version
- Supplied with microphone holder, cable and case

Model	DM-5000LN
Polar pattern	supercardioid
System	dynamic
Audio frequency range	40-18,000 Hz
Nominal impedance	250 Ω
Sensitivity	2.5 mV/Pa
Max. sound pressure	130 dB
Housing material	diecast zinc
Dimensions	Ø 53.5 mm x 174 mm
Weight	690 g
Cable	6 m, low-noise, XLR
Connection	XLR, bal.



DM-1100

Order No. 0233290

Dynamic microphone, for speech and vocals.

- Cardioid polar pattern
- Supplied with cable
- Supplied w/o microphone holder. Matching microphone holder (e.g. MH-202) is available at option

Model	DM-1100
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,000 Hz
Nominal impedance	500 Ω
Sensitivity	2.5 mV/Pa
Max. sound pressure	145 dB
Housing material	metal
Dimensions	Ø 54 mm x 175 mm
Weight	250 g
Cable	5 m, low-noise, 6.3 mm plug
Connection	XLR, bal.



DM-3SET

Order No. 0234020

Dynamic vocal microphone set

Set of 3 vocal microphones, ideally suited for recordings and live performances. The frequency response has been especially optimised for vocal applications which makes the DM-3SET a reliable tool for any vocalist.

- Wide transmission range
- Very low acoustic feedback
- Integrated windshield/pop noise head
- Suitable for on-the-road applications due to diecast body and steel basket
- Supplied accessories: robust hard-sided case, 3 x stand clamp 16 mm (¾")

Model	DM-3SET
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-15,000 Hz
Nominal impedance	500 Ω
Sensitivity	2 mV/Pa
Max. sound pressure	120 dB
Housing material	diecast zinc
Dimensions	Ø 53 mm x 180 mm
Weight	285 g
Connection	XLR, bal.



DRUMSET-1

Order No. 0231390

7-piece drum microphone set, consisting of a dynamic bass drum microphone, four dynamic snare drum/tom-tom microphones and two overhead condenser microphones.

- Optimised for sound pickup of drums
- Short-bodied microphones
- Including microphone holder with 16 mm (5/8") tripod socket and 9 mm (3/8") adapter screw for every microphone
- Additional clamps for the snare drum/tom-tom microphones
- Supplied in a practical plastic case

Model	DRUMSET-1
Polar pattern	bi-directional (bass drum) supercardioid (snare drum/tom-tom) cardioid (overhead)
System	dynamic (bass drum) dynamic (snare drum/tom-tom) electret (overhead)
Audio frequency range	50-10,000 Hz (bass drum) 50-15,000 Hz (snare drum/tom-tom) 50-15,000 Hz (overhead)
Nominal impedance	200 Ω
Sensitivity	1.6 mV/Pa (bass drum) 2.5 mV/Pa (snare drum/tom-tom) 5.6 mV/Pa (overhead)
S/N ratio	66 dB
Max. sound pressure	158 dB (bass drum) 157 dB (snare drum/tom-tom) 161 dB (overhead)
Power supply	≙ 48 V, phantom power (overhead)
Dimensions	Ø 50 mm x 113 mm (bass drum) Ø 40 mm x 93 mm (snare drum/ tom-tom) Ø 22 mm x 90 mm (overhead) 430 x 135 x 320 mm (set)
Weight	1.5 kg
Connection	XLR, bal.



ECM-250

Order No. 0233480

Electret microphone set, consisting of two overhead electret microphones.

- Optimised for sound pickup of drum combinations and percussion instruments
- Short-bodied microphones
- Low cut switch, selectable 10 dB attenuation
- 48 V phantom power
- Including microphone holder with 16 mm (5/8") tripod socket and 9 mm (3/8") adapter screw
- Supplied in a practical plastic case

Model	ECM-250
Polar pattern	cardioid
System	electret
Audio frequency range	50-16,000 Hz
Nominal impedance	200 Ω
Sensitivity	18/5.6 mV/Pa
S/N ratio	66 dB
Max. sound pressure	130 dB
Power supply	≙ 48 V, phantom power
Dimensions	Ø 19 mm x 80 mm
Weight	25 g
Connection	XLR, quasi-balanced



ECM-310W

Order No. 0233360

Electret microphone for sound pickup of wind instruments

- 8 cm gooseneck
- Phantom power via supplied adapter
- 3 m connection cable with 3-pole mini XLR/XLR
- Supplied in a practical plastic case

Model	ECM-310W
Polar pattern	supercardioid
System	electret
Audio frequency range	30-17,000 Hz
Nominal impedance	200 Ω
Sensitivity	4.5 mV/Pa
Max. sound pressure	120 dB
Power supply	9-48 V via power supply adapter
Dimensions	140 mm
Weight	155 g
Cable	3 m
Connection	3-pole mini XLR, unbal. adapter: XLR, bal.



ECM-270

Order No. 0235140

Professional condenser microphone, for studio applications and live performances. Ideally suited for direct or overhead sound pickup of acoustic instruments and vocals.

- Back electret cartridge with cardioid polar pattern
- Low cut switch
- Selectable 10 dB attenuation
- Electronically balanced output
- Robust brass body of high quality
- Supplied accessories: robust hard-sided case, microphone windshield, microphone support (spider) for 16 mm (5/8") stand

Model	ECM-270
Polar pattern	cardioid
System	back electret
Audio frequency range	50-18,000 Hz
Nominal impedance	200 Ω
Sensitivity	5.6 mV/Pa
S/N ratio	> 60 dB
Max. sound pressure	135 dB
Power supply	≙ 48 V, phantom power
Housing material	brass
Dimensions	Ø 20 mm x 150 mm
Weight	140 g
Connection	XLR, bal.



ECM-285

Order No. 0232760

Electret microphone for sound pickup of vocals and instruments

- Special shock-absorbing cartridge support
- Operation via external phantom power (≙ 9-48 V) or internal 1.5 V battery
- ON/OFF switch
- Supplied with 6 m connection cable XLR/XLR and support with screw fixing 16 mm (5/8")/9 mm (3/8")

Model	ECM-285
Polar pattern	cardioid
System	electret
Audio frequency range	80-15,000 Hz
Nominal impedance	400 Ω
Sensitivity	5 mV/Pa
Max. sound pressure	115 dB
Power supply	1 x 1.5 V batt. AA size or ≙ 9-48 V (phantom power)
Dimensions	Ø 26 mm x 195 mm
Weight	110 g
Cable	6 m
Connection	XLR, bal.



ECM-40

Order No. 0232230

Universal electret microphone, with linear frequency response.

- For measuring systems and audio recordings
- Supplied with frequency graph

Model	ECM-40
Polar pattern	omnidir.
System	electret
Audio frequency range	30-18,000 Hz
Nominal impedance	500 Ω
Sensitivity	5.6 mV/Pa
S/N ratio	> 60 dB
Max. sound pressure	120 dB
Power supply	≙ 12-48 V, phantom power
Housing material	metal
Dimensions	Ø 13/19 mm x 158 mm
Weight	50 g
Cable	6 m
Connection	XLR, bal.



EMA-200

Order No. 0232790

48 V phantom power supply

- For 2 electret microphones or microphone cartridges
- Power supply: ~ 230 V/50 Hz/10 VA
- 2 x XLR input (bal.)
- 2 x XLR output (bal.)

Model	EMA-200
Input voltage	~ 230 V/50 Hz/10 VA
Output voltage	+48 V
Connections	2 x XLR, bal.
Dimensions	180 x 50 x 145 mm
Weight	1.179 kg



EMA-3

Order No. 0233820

48 V phantom power supply

- For electret microphones and microphone cartridges
- XLR input (bal.)
- XLR output (bal.)

Model	EMA-3
Input voltage	via encl. plug-in power supply
Output voltage	+48 V
Dimensions	126 x 75 x 45 mm
Weight	535 g



EMA-1

Order No. 0232120

Phantom power supply adapter

- For electret microphones and electret microphone cartridges
- Also to be used as a phantom power adapter for mixers with phantom power supply +48 V
- Internal power supply via 1.5 V battery AA size (not supplied)
- 3-pole mini XLR input
- 3-pole XLR output

Model	EMA-1
Input voltage	phantom power via mixer: = 48 V
Connections	3-pole XLR
Dimensions	Ø 22 mm x 170 mm
Weight	75 g



EMA-300P

Order No. 0232410

Phantom power supply adapter

- For connecting ECM-300B, ECM-300L and other microphones with 3-pole mini XLR connector to a mixer with 48 V phantom power
- Mini XLR plug and XLR plug, 3 poles

Model	EMA-300P
Input voltage	via mixer
Connections	3-pole mini XLR
Dimensions	Ø 19 mm x 92 mm
Weight	79 g



WSA-24R

Order No. 0257140

Wireless stereo receiver, 2.4 GHz, for audio streaming.

- Matching the transmitter WSA-24T
- Interference-free operation due to FHSS technology (Frequency Hopping Spread Spectrum)
- Analogue line level output via 6.3 mm jacks L/R
- Plastic housing
- Power is provided via enclosed plug-in power supply

Model	WSA-24R
Frequency range	20-20,000 Hz
THD	< 0.3%
Channel separation	≥ 90 dB
S/N ratio	-
Transmitting power	-
Power supply	via encl. power supply
Dimensions	116 x 35 x 86 mm
Weight	118 g
Connections	Outputs: 1 x 6.3 mm stereo jack L/R, analogue



WSA-24T

Order No. 0257150

Wireless stereo transmitter, 2.4 GHz, for audio streaming.

- Matching the receiver WSA-24R
- Stereo/mono selector switch
- LED for indicating status and peak
- Interference-free operation due to FHSS technology (Frequency Hopping Spread Spectrum)
- Analogue line level input via 6.3 mm jacks L/R and 3-pole XLR L/R

Model	WSA-24T
Frequency range	20-20,000 Hz
THD	< 0.3%
Channel separation	≥ 90 dB
S/N ratio	-
Transmitting power	-
Operating range	> 30 m, without any obstacles
Power supply	via encl. power supply
Dimensions	130 x 54 x 130 mm
Weight	470 g
Connections	Inputs: 1 x 6.3 mm stereo jack L/R, analogue 1 x 3-pole XLR L/R, analogue



- Metal housing
- Power is provided via enclosed plug-in power supply

FLY-16T

Order No. 0259580

16-channel wireless PA audio transmitter, with UHF PLL technology.

- For analogue wireless transmission of line audio signals in PA systems
- Frequency range: 823-832 MHz
- 16 pre-programmed channels, selectable
- Up to 8 intermodulation-free channels
- Indication for channel and battery status
- Supplied with USB cable

Model	FLY-16T
Description	16-channel wireless PA audio transmitter
Carrier frequency range	823-832 MHz
Audio frequency range	30-17,000 Hz
THD	0.3%
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Operating range	approx. 90 m
Power supply transmitter	1 x 1.5 V batt. AA size, = 5 V/150 mA via micro USB jack
Dimensions transmitter	22 x 23 x 116 mm
Weight transmitter	54 g
Connections transmitter	3-pole XLR jack



FLY-16R

Order No. 0259570

16-channel wireless PA audio receiver, with UHF PLL technology.

- For analogue wireless transmission of line audio signals in PA systems
- Frequency range: 823-832 MHz
- 16 pre-programmed channels, selectable
- Up to 8 intermodulation-free channels
- Multiple receivers FLY-16R can be operated via one transmitter FLY-16T

Model	FLY-16R
Description	16-channel wireless PA audio receiver
Carrier frequency range	823-832 MHz
Audio frequency range	30-17,000 Hz
THD	0.3%
Admiss. ambient temp.	0-40 °C
Power supply receiver	1 x 1.5 V batt. AA size, = 5 V/150 mA via micro USB jack
Dimensions receiver	22 x 23 x 102 mm
Weight receiver	25 g
Connections receiver	3-pole XLR plug



- Indication for channel and battery status
- Supplied with USB cable

FLY-16SET

Order No. 0259854

16-channel wireless PA audio transmission set, with UHF PLL technology.

- Consisting of 16-channel wireless PA audio transmitter FLY-16T and 16-channel wireless PA audio receiver FLY-16R
- For analogue wireless transmission of line audio signals in PA systems

- Frequency range: 823-832 MHz
- 16 pre-programmed channels, selectable
- Up to 8 intermodulation-free channels
- Audio transmission range: 30-17,000 Hz
- Compact size
- For further specifications, please refer to individual items



There are restrictions or requirements in the EU!

Please read the notes on wireless systems in the section "IMPORTANT INFORMATION"!

TXS-606

Order No. 0253510

Multifrequency receiver unit, with UHF PLL technology.

- 1,000 selectable UHF frequencies (672.000-696.975 MHz) in 10 groups with 100 frequencies each
- ACT function for transmitting selected frequency to pocket transmitter TXS-606LT or hand-held microphone TXS-606HT via infrared signal
- Auto-scan
- True diversity system with removable antennas (BNC connection)

Model	TXS-606
Carrier frequency range	672.000-696.975 MHz
Audio frequency range	30-18,000 Hz
THD	< 0.5%
Dynamic range	100 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	350 mV/600 Ω (jack) 25 mV/600 Ω (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	212 x 45 x 180 mm
Weight receiver	930 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.

- Volume and squelch controls



TXS-626

Order No. 0253520



2-channel multifrequency receiver unit, with UHF PLL technology.

- 1,000 selectable UHF frequencies (672.000-696.975 MHz) for each channel (10 groups with 100 frequencies each)
- ACT function for transmitting selected frequency to pocket transmitter TXS-606HSE/2, tie clip microphone transmitter TXS-606LT/2, desktop microphone transmitter TXS-606DT/2 or hand-held microphone TXS-606HT/2 via infrared signal
- Auto-scan
- True diversity system with removable antennas (BNC connection)

Model	TXS-626
Carrier frequency range	672.000-696.975 MHz
Audio frequency range	30-18,000 Hz
THD	< 0.5%
Dynamic range	100 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	350 mV/600 Ω (jack) 25 mV/600 Ω (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	482 x 45 x 195 mm
Weight receiver	1.8 kg
Connections receiver	2 x XLR, bal., 1 x 6.3 mm jack, unbal.

- Volume and squelch controls for each channel



TXS-646

Order No. 0253530



4-channel multifrequency receiver unit, with UHF PLL technology.

- 1,000 selectable UHF frequencies (672.000-696.975 MHz) for each channel (10 groups with 100 channels each)
- ACT function for transmitting selected frequency to pocket transmitter TXS-606HSE/2, tie clip microphone transmitter TXS-606LT/2, desktop microphone transmitter TXS-606DT/2 or hand-held microphone TXS-606HT/2 via infrared signal
- Auto-scan
- True diversity system with removable antennas (BNC connection)

Model	TXS-646
Carrier frequency range	672.000-696.975 MHz
Audio frequency range	30-18,000 Hz
THD	< 0.5%
Dynamic range	100 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	350 mV/600 Ω (jack) 25 mV/600 Ω (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	482 x 45 x 310 mm
Weight receiver	2.9 kg
Connections receiver	4 x XLR, bal., 1 x 6.3 mm jack, unbal.

- Volume and squelch controls for each channel



TXS-686

Order No. 0257320



8-channel multifrequency receiver unit, with UHF PLL technology.

- 1,000 selectable UHF frequencies (672.000-696.975 MHz) for each channel (10 groups with 100 channels each)
- ACT function for transmitting selected frequency to pocket transmitter TXS-606HSE/2, tie clip microphone transmitter TXS-606LT/2, desktop microphone transmitter TXS-606DT/2 or hand-held microphone TXS-606HT/2 via infrared signal
- Auto-scan
- True diversity system with removable antennas (BNC connection)

Model	TXS-686
Carrier frequency range	672.000-696.975 MHz
Audio frequency range	30-18,000 Hz
THD	< 0.5%
Dynamic range	100 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	350 mV/600 Ω (jack) 25 mV/600 Ω (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	482 x 90 x 310 mm
Weight receiver	4.4 kg
Connections receiver	8 x XLR, bal., 1 x 6.3 mm jack, unbal.

- Volume and squelch controls for each channel



TXS-606HT/2

Order No. 1000185

Hand-held microphone with integrated multifrequency transmitter, with UHF PLL technology.

- Dynamic microphone cartridge, cardioid polar pattern
- 800 selectable UHF frequencies (672.000-691.975 MHz), can be synchronised with receivers TXS-606, TXS-626, TXS-646 or TXS-686 via ACT function
- Adjustable sensitivity
- Switchable transmitting power (high: 25 mW/ low: 2.5 mW)

Model	TXS-606HT/2
Polar pattern	cardioid
System	dynamic
Carrier frequency range	672.000-691.975 MHz
Transmitting power	25 mW/2.5 mW
Power supply	2 x 1.5 V batt. AA size
Operating time	> 8 h
Audio frequency range	30-18,000 Hz
Dimensions	∅ 51 mm x 265 mm
Weight	312 g

- LCD for indicating group/channel, audio level and battery status



TXS-606HSE/2

Order No. 1000184

Multifrequency pocket transmitter, with UHF PLL technology.

- 800 selectable UHF frequencies (672.000-691.975 MHz), can be synchronised with receivers TXS-606, TXS-626, TXS-646 or TXS-686 via ACT function
- Continuously adjustable sensitivity
- LCD for indicating group/channel, audio level and battery status
- Suitable for combination with headband/earband microphones and tie clip microphones with 3-pole mini XLR connector

Model	TXS-606HSE/2
Carrier frequency range	672.000-691.975 MHz
Audio frequency range	30-18,000 Hz
Operating time	> 8 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	61 x 106 x 27 mm
Weight transmitter	80 g
Connections transmitter	1 x 3-pole mini XLR



TXS-606LT/2

Order No. 1000186

Multifrequency tie clip microphone transmitter, with UHF PLL technology.

- 800 selectable UHF frequencies (672.000-691.975 MHz), can be synchronised with receivers TXS-606, TXS-626, TXS-646 or TXS-686 via ACT function
- Continuously adjustable sensitivity
- LCD for indicating group/channel, audio level and battery status
- Tie clip microphone with latchable 3.5 mm plug

Model	TXS-606LT/2
Carrier frequency range	672.000-691.975 MHz
Audio frequency range	30-18,000 Hz
Operating time	> 8 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	61 x 106 x 27 mm
Weight transmitter	96 g
Connections transmitter	1 x 3.5 mm jack



TXS-606DT/2

Order No. 1000183

Wireless desktop microphone with integrated multifrequency transmitter, with UHF PLL technology.

- Electret microphone cartridge, cardioid polar pattern
- 350 mm gooseneck, removable
- 800 selectable UHF frequencies (672.000-691.975 MHz), can be synchronised with receivers TXS-606, TXS-626, TXS-646 or TXS-686 via ACT function
- Switchable transmitting power (high: 25 mW/ low: 2.5 mW)

Model	TXS-606DT/2
Polar pattern	cardioid
System	electret
Carrier frequency range	672.000-691.975 MHz
Transmitting power	25 mW/2.5 mW
Power supply	2 x 1.5 V batt. AA size
Operating time	> 8 h
Audio frequency range	30-18,000 Hz
Dimensions	120 x 65 x 178 mm (w/o gooseneck)
Weight	1.2 kg

- Adjustable sensitivity
- LCD for indicating group/channel, audio level and battery status



There are restrictions or requirements in the EU!
Please read the notes on wireless systems in the section "IMPORTANT INFORMATION"!

TXS-707LT

Order No. 0257570

Multifrequency tie clip microphone transmitter, with UHF PLL technology.

- 100 selectable UHF frequencies (667.000-691.750 MHz)
- Continuously adjustable sensitivity
- Gain control
- Mute function
- LCD for indicating channel and battery status
- Operating range: 90 m (free field)

Model	TXS-707LT
Carrier frequency range	667.000-691.750 MHz
Audio frequency range	30-18,000 Hz
Operating time	> 15 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	62 x 105 x 26 mm
Weight transmitter	77 g
Connections transmitter	1 x 3.5 mm jack



TXS-707HSE

Order No. 0257550

Multifrequency pocket transmitter, with UHF PLL technology.

- 100 selectable UHF frequencies (667.000-691.750 MHz)
- Continuously adjustable sensitivity
- Gain control
- Mute function
- LCD for indicating channel and battery status
- Operating range: 90 m (free field)

Model	TXS-707HSE
Carrier frequency range	667.000-691.750 MHz
Audio frequency range	30-18,000 Hz
Operating time	> 15 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	62 x 105 x 26 mm
Weight transmitter	77 g
Connections transmitter	1 x 3-pole mini XLR



TXS-707

Order No. 0257540



Multifrequency receiver unit, with UHF PLL technology.

- 100 selectable UHF frequencies (667.000-691.750 MHz)
- SYNC function
- True diversity system with removable antennas
- Volume and squelch controls
- Pilot tone squelch

Model	TXS-707
Carrier frequency range	667.000-691.750 MHz
Audio frequency range	80-18,000 Hz
THD	< 0.5%
Dynamic range	100 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	100 mV/600 Ω (jack) 20-30 mV/600 Ω (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	210 x 50 x 215 mm
Weight receiver	970 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.



TXS-727

Order No. 0257530



2-channel multifrequency receiver unit, with UHF PLL technology.

- 100 selectable UHF frequencies (667.000-691.750 MHz) for each channel
- SYNC function
- Volume and squelch controls adjustable for each channel
- Pilot tone squelch

Model	TXS-727
Carrier frequency range	667.000-691.750 MHz
Audio frequency range	80-18,000 Hz
THD	< 0.5%
Dynamic range	100 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	100 mV/600 Ω (jack) 20-30 mV/600 Ω (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	482 x 50 x 255 mm
Weight receiver	1.65 kg
Connections receiver	2 x XLR, bal., 1 x 6.3 mm jack, unbal.



TXS-865HT

Order No. 0255310

Dynamic hand-held UHF PLL transmitter, with REMOSET technology.

- Dynamic microphone cartridge, cardioid polar pattern
- 124 selectable channels in 6 channel groups (506-542 MHz)
- Adjustable sensitivity (12 dB to -18 dB)
- Backlit LCD for indicating channel and battery status
- Switchable transmitting power: 10 mW/50 mW (EIRP)
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with robust transport case and stand clamp

Model	TXS-865HT
Polar pattern	cardioid
System	dynamic
Carrier frequency range	506-542 MHz
Transmitting power	10 mW/50 mW, switchable
Power supply	2 x batt. AA size, alkaline
Operating time	> 25 h
Audio frequency range	50-16,000 Hz
Dimensions	Ø 50 mm x 250 mm
Weight	350 g



TXS-865HSE

Order No. 0255300

UHF PLL pocket transmitter, with REMOSET technology.

- Suitable for combination with headband microphone or earband microphone with 3-pole mini XLR connector
- 124 selectable channels in 6 channel groups
- Adjustable sensitivity (12 dB to -18 dB)
- Selectable attenuation (0 dB/-6 dB/-20 dB)
- Lock function
- Backlit LCD for indicating channel and battery status

Model	TXS-865HSE
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
Operating time	> 25 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x batt. AA size, alkaline
Dimensions transmitter	68 x 172 x 21 mm
Weight transmitter	77 g
Connections transmitter	1 x 3-pole mini XLR



TXS-855

Order No. 0255280

Single-channel diversity UHF PLL receiver, with REMOSET technology.

- 124 selectable channels in 6 channel groups
- Parallel operation of up to 20 channels
- Diversity system with removable antennas
- Integrated scan function
- Pilot tone squelch and noise squelch

Model	TXS-855
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	100 mV XLR, 100 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 42 x 195 mm
Weight receiver	525 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, bal.



TXS-865

Order No. 0255290



2-channel diversity UHF PLL receiver, with REMOSET technology.

- 124 selectable channels in 6 channel groups (506-542 MHz)
- Parallel operation of up to 20 channels
- Diversity system with removable antennas (BNC connection)
- Integrated scan function
- Pilot tone squelch and noise squelch
- Attenuator with 2-way switching

Model	TXS-865
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	100 mV XLR, 100 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	420 x 54 x 230 mm
Weight receiver	2 kg
Connections receiver	2 x XLR, bal., 1 x 6.3 mm jack, bal.



**There are restrictions or requirements in the EU!
Please read the notes on wireless systems in the section "IMPORTANT INFORMATION"!**

TXS-611SET

Order No. 0253650

Multifrequency microphone system, with UHF PLL technology.

- 1 hand-held microphone transmitter (cardioid polar pattern), 1 receiver, 1 plug-in power supply
- True diversity system
- 80 selectable UHF channels
- ACT function for transmitting selected frequency to the hand-held microphone via infrared signal

Licence-free system in the EU.

Model	TXS-611SET
Carrier frequency range	863-865 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	120 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Transmitting power	< 10 mW
Operating range	≈ 30 m
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	Ø 52 mm x 275 mm
Weight transmitter	235 g
Audio signal receiver	350 mV/10 kΩ (jack) 25 mV/10 kΩ (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	152 x 38 x 120 mm
Weight receiver	482 g
Connections receiver	1 x 6.3 mm jack, unbal. 1 x XLR, bal.



TXS-616SET/2

Order No. 1000187

Multifrequency microphone system, with UHF PLL technology.

- 1 hand-held microphone transmitter (cardioid polar pattern), 1 receiver, 1 plug-in power supply
- True diversity system
- 80 selectable UHF channels
- ACT function for transmitting selected frequency to the hand-held microphone via infrared signal

Model	TXS-616SET/2
Carrier frequency range	672-692 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	120 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Transmitting power	< 25 mW/2.5 mW (EIRP)
Operating range	≈ 50 m
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	Ø 52 mm x 275 mm
Weight transmitter	235 g
Audio signal receiver	350 mV/10 kΩ (jack) 25 mV/10 kΩ (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	152 x 38 x 120 mm
Weight receiver	482 g
Connections receiver	1 x 6.3 mm jack, unbal. 1 x XLR, bal.



TXS-631SET

Order No. 0253660

Multifrequency microphone system, with UHF PLL technology.

- 1 pocket transmitter, 1 tie clip microphone, 1 receiver, 1 plug-in power supply
- True diversity system
- 80 selectable UHF channels
- ACT function for transmitting the selected frequency to the pocket transmitter via infrared signal

Licence-free in the EU.

Model	TXS-631SET
Carrier frequency range	863-865 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	120 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Transmitting power	< 10 mW
Operating range	≈ 30 m
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	62 x 105 x 25 mm
Weight transmitter	88 g
Audio signal receiver	350 mV/10 kΩ (jack) 25 mV/10 kΩ (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	152 x 38 x 120 mm
Weight receiver	482 g
Connections receiver	1 x 6.3 mm jack, unbal. 1 x XLR, bal.



TXS-636SET/2

Order No. 1000188

Multifrequency microphone system, with UHF PLL technology.

- 1 pocket transmitter, 1 tie clip microphone, 1 receiver, 1 plug-in power supply
- True diversity system
- 80 selectable UHF channels
- ACT function for transmitting selected frequency to the pocket transmitter via infrared signal

Model	TXS-636SET/2
Carrier frequency range	672-692 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	120 dB
RF S/N ratio	105 dB
Admiss. ambient temp.	0-40 °C
Transmitting power	< 10 mW
Operating range	≈ 30 m
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	62 x 105 x 25 mm
Weight transmitter	88 g
Audio signal receiver	350 mV/10 kΩ (jack) 25 mV/10 kΩ (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	152 x 38 x 120 mm
Weight receiver	482 g
Connections receiver	1 x 6.3 mm jack, unbal. 1 x XLR, bal.



TXS-2402SET

Order No. 0254090

Digital wireless 2-channel PLL microphone system, 2.4 GHz

- 2 microphone transmitters, 1 receiver, 1 plug-in power supply
- High resistance to interference due to digital transmission
- 2 systems can be used in parallel
- 16 frequencies for each channel can be selected at the transmitter
- Wireless auto-configuration of the receiver
- Volume control for each channel
- 6.3 mm output for mixed signal

Licence-free in the EU.

Model	TXS-2402SET
Carrier frequency range	2,404-2,476 MHz
Audio frequency range	80-12,000 Hz
THD	< 0.1%
Dynamic range	87 dB
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Operating range	approx. 30 m (free field) approx. 20 m (indoors)
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	Ø 54 mm x 225 mm
Weight transmitter	120 g
Audio signal receiver	100 mV/600 Ω
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	220 x 45 x 150 mm
Weight receiver	550 g
Connections receiver	1 x 6.3 mm jack, unbal.



TXS-2401SX

Order No. 0254680

Digital wireless pocket transmitter, 2.4 GHz, matching the 2-channel PLL microphone system TXS-2402SET.

- High resistance to interference due to digital transmission
- 16 selectable frequencies (2,404-2,476 MHz)
- Volume control
- Power LED
- Belt clip
- Headband microphone and tie clip microphone, each with latchable 3.5 mm plug
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Licence-free in the EU.

Model	TXS-2401SX
Carrier frequency range	2,404-2,476 MHz
Audio frequency range	80-12,000 Hz
Operating time	> 20 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	62 x 90 x 28 mm
Weight transmitter	105 g
Connections transmitter	1 x 3.5 mm jack



TXS-812SET

Order No. 0252600



Wireless 2-channel microphone system

- 2 microphone transmitters, 1 receiver, 1 plug-in power supply
- Two-channel UHF version (non-diversity) with channel mixing function which can additionally be selected
- Volume and squelch controls for each channel
- Each channel with LEDs for indicating RF signal and audio signal

Licence-free in the EU.

Model	TXS-812SET
Carrier frequency range	863.80 MHz, 864.20 MHz
Audio frequency range	40-15,000 Hz
THD	< 0.5%
Dynamic range	> 90 dB
RF S/N ratio	> 80 dB
Admiss. ambient temp.	0-40 °C
Transmitting power	< 10 mW
Operating range	approx. 30 m
Power supply transmitter	2 x 1.5 V batt. AA size (not supplied)
Dimensions transmitter	Ø 52 mm x 260 mm
Weight transmitter	240 g
Audio signal receiver	0-200 mV/10 kΩ (jack) 0-400 mV/10 kΩ (XLR, bal.)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	210 x 46 x 190 mm
Weight receiver	560 g
Connections receiver	2 x XLR, bal. 1 x 6.3 mm jack, unbal.



TXS-900HT

Order No. 0255260

Hand-held microphone with integrated multi-frequency transmitter, with UHF PLL technology.

- Condenser microphone cartridge, cardioid polar pattern
- 2 frequency ranges
- SYNC function for synchronisation with receivers TXS-900 and TXS-920
- Mute function
- LCD for indicating channel and battery status
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Model	TXS-900HT
Polar pattern	cardioid
System	condenser
Carrier frequency range	823-832 MHz + 863-865 MHz
Transmitting power	10 mW
Power supply	2 x 1.5 V batt. AA size
Operating time	> 15 h
Audio frequency range	80-18,000 Hz
Dimensions	∅ 53 mm x 260 mm
Weight	220 g



TXS-900HSE

Order No. 0255250

Multifrequency pocket transmitter, with UHF PLL technology.

- 2 frequency ranges
- SYNC function for synchronisation with receivers TXS-900 and TXS-920
- Mute function
- Sensitivity can be adjusted in 3 steps
- LCD for indicating channel and battery status
- Suitable for combination with headband/earband microphones and tie clip microphones with 3-pole mini XLR connector

Model	TXS-900HSE
Carrier frequency range	823-832 MHz + 863-865 MHz
Audio frequency range	80-18,000 Hz
Operating time	> 15 h
Admiss. ambient temp.	0-40 °C
Transmitting power	10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	65 x 110 x 25 mm
Weight transmitter	76 g
Connections transmitter	1 x 3-pole mini XLR



- Belt clip
- Power supply via 2 x 1.5 V battery AA size (not supplied)

TXS-900

Order No. 0255230

Multifrequency receiver unit, with UHF PLL technology.

- 2 licence-free frequency ranges
- 442 selectable channels
- Intermodulation-free presets, 4 groups with 8 channels each
- 12 intermodulation-free channels max. can be used in parallel (auto-scan)
- SYNC function for transmitting selected frequency to the transmitter
- True diversity system

Model	TXS-900
Carrier frequency range	823-832 MHz + 863-865 MHz
Audio frequency range	80-18,000 Hz
THD	< 1%
Dynamic range	> 100 dB
RF S/N ratio	> 100 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	line: 75 mV, mic: 7 mV (jack, unbal) line: 150 mV, mic: 15 mV (XLR, bal)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	200 x 42 x 183 mm
Weight receiver	1.1 kg
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.



TXS-920

Order No. 0255240



2-channel multifrequency receiver unit, with UHF PLL technology.

- 2 licence-free frequency ranges
- 442 selectable channels
- Intermodulation-free presets, 4 groups with 8 channels each
- 12 intermodulation-free channels max. can be used in parallel (auto-scan)
- SYNC function for transmitting selected frequency to the transmitter
- True diversity system

Model	TXS-920
Carrier frequency range	823-832 MHz + 863-865 MHz
Audio frequency range	80-18,000 Hz
THD	< 1%
Dynamic range	> 100 dB
RF S/N ratio	> 100 dB
Admiss. ambient temp.	0-40 °C
Audio signal receiver	line: 75 mV, mic: 7 mV (jack, unbal) line: 150 mV, mic: 15 mV (XLR, bal) 75 mV (mix)
Power supply receiver	via encl. plug-in power supply
Dimensions receiver	420 x 42 x 183 mm
Weight receiver	2 kg
Connections receiver	2 x XLR, bal., 2 x 6.3 mm jack, unbal. 1 x 6.3 mm jack, unbal. (mix)



Please consider the regulations and requirements in the country of application.
Please read the notes regarding wireless systems in the section „IMPORTANT INFORMATION“!

TXS-35BNC

Order No. 0247760



Mounting brackets, for offset antenna mounting.

- For 482 mm (19") rack installation
- Aluminium, black lacquered
- Fixed BNC jack, 35 cm antenna cable with BNC plug



TXS-70BNC

Order No. 0021490



Adapter cable set, for offset antenna mounting.

- 2 x 35 cm antenna cable with BNC plug
- 2 x BNC bushing



TXS-100BNC

Order No. 0247770



Mounting brackets, for offset antenna mounting.

- Aluminium, black lacquered
- Fixed BNC jack, 100 cm antenna cable with BNC plug



TXS-81ANT

Order No. 0253730

Replacement rod antenna, for UHF frequency receiver unit TXS-871.

- Perfect reception due to half-wave length tuning ($\lambda/2$)
- Folding 90°, with 45° locking
- Flexible, with insulating plastic sheathing



TXS-1BNC

Order No. 0247750

Replacement telescopic antenna

- For VHF 175-225 MHz
- BNC connection



HSE-310/SK

Order No. 0234120

Professional headband microphone, with cardioid polar pattern and a high-quality sound which is suitable for any vocal or speech application. Innovative design features ensure a maximum suppression of both the impact sound and structure-borne noise as well as an extra low acoustic feedback, very comfortable to wear. Beige version.

- Corrosion-resistant neckband, easy to clean
- Drip ring (protects cartridge from moisture)
- Unobtrusive and secure fit due to cable routing in neck area incl. strain relief and cable bending protection
- Stable positioning

Model	HSE-310/SK
Polar pattern	cardioid
System	electret
Audio frequency range	50-18,000 Hz
Nominal impedance	2 kΩ
Sensitivity	2.3 mV/Pa
Max. sound pressure	120 dB
Power supply	1.5-9 V
Weight	18 g (w/o cable and plug)
Connection	3-pole mini XLR

- Microphone windshield
- External power supply, e.g. via phantom power supply adapter EMA-1 or EMA-300P
- 3-pole mini XLR inline jack, matches EMA-1 or pocket transmitters TXS-...HSE



HSE-200WP/BL

Order No. 0236370

Electret headband microphone, for fitness and aerobics.

- Splashproof
- Very comfortable to wear due to adjustable headband
- Secure fit even during strenuous applications, e.g. aerobics or spinning
- Back electret microphone cartridge with omnidirectional polar pattern
- Drip ring (additionally protects cartridge from moisture)
- 3-pole mini XLR inline jack for connection to an optional phantom power supply adapter (EMA-1, EMA-300P) or a pocket transmitter TXS-...HSE

Model	HSE-200WP/BL
Polar pattern	omnidir.
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	2 kΩ
Sensitivity	5.6 mV/Pa
Max. sound pressure	130 dB
Power supply	≈ 1.5-9 V
Weight	45 g
Connection	3-pole mini XLR

- Durable connection cable with textile sleeve
- Rubber bushing for protecting the connector to be plugged into the pocket transmitter from moisture



HSE-150A/SK

Order No. 0235160

Ultra-light headband microphone

- Omnidirectional polar pattern
- High-quality back electret cartridge
- Plug with latching device
- Supplied with adapters for the TXS-...HSE series (3-pole mini XLR) and pocket transmitters from JTS (4-pole mini XLR)
- Drip ring (protects cartridge from moisture)
- Removable sweat-proof connection cable with 2.5 mm stereo plug (replacement connection cable: HSE-70C)
- Optional adapters allow application with devices from other manufacturers

Model	HSE-150A/SK
Polar pattern	omnidir.
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	1 kΩ
Sensitivity	8 mV/Pa
Max. sound pressure	130 dB
Power supply	≈ 1.5-9 V
Weight	7 g
Connection	2.5 mm stereo plug
	2 connection adapters

- Turning cartridge arm of adjustable length
- External power supply e.g. via phantom power supply adapter EMA-1 or EMA-300P
- Microphone windshield



HSE-140/SK

Order No. 0235530

Ultra-light headband microphone, for young artists.

- Small headband design, adjustable
- Omnidirectional polar pattern
- High-quality back electret cartridge
- 3-pole mini XLR connection
- Turning cartridge arm of adjustable length
- Drip ring (protects cartridge from moisture)
- Compatible with all TXS-...HSE pocket transmitters with 3-pole mini XLR connection

Model	HSE-140/SK
Polar pattern	omnidir.
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	1 kΩ
Sensitivity	8 mV/Pa
Max. sound pressure	130 dB
Power supply	≈ 1.5-9 V
Weight	8 g
Connection	3-pole mini XLR

- External power supply e.g. via phantom power supply adapter EMA-1 or EMA-300P
- Microphone windshield



HSE-152A/SK

Order No. 0235170

Ultra-light headband microphone

- Cardioid polar pattern
- High-quality back electret cartridge
- Plug with latching device
- Supplied with adapters for the TXS-...HSE series (3-pole mini XLR) and pocket transmitters from JTS (4-pole mini XLR)
- Excellent feedback rejection
- Drip ring (protects cartridge from moisture)
- Removable sweat-proof connection cable with 2.5 mm stereo plug (replacement connection cable: HSE-70C)
- Optional adapters allow application with devices from other manufacturers

Model	HSE-152A/SK
Polar pattern	cardioid
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	1.5 kΩ
Sensitivity	1.8 mV/Pa
Max. sound pressure	130 dB
Power supply	≈ 1.5-9 V
Weight	7 g
Connection	2.5 mm stereo plug
	2 connecting adapters

- Turning cartridge arm of adjustable length
- External power supply e.g. via phantom power supply adapter EMA-1 or EMA-300P
- Microphone windshield



HSE-110

Order No. 0232170

Headband microphones

- High-quality back electret cartridge
- Very linear frequency response, especially resistant to external sound due to its supercardioid polar pattern with high back suppression
- The power supply adapter EMA-1 or a respective power supply is required for operation

Model	HSE-110
Polar pattern	supercardioid
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	3 kΩ
Sensitivity	7 mV/Pa
Max. sound pressure	120 dB
Power supply	≈ 1.3-20 V
Weight	69 g
Connection	3-pole mini XLR

HSE-100: with bare cable ends

HSE-110: with 3-pole mini XLR inline jack, matching

EMA-1 or a pocket transmitter TXS-...HSE

HSE-120: with 3.5 mm plug



HSE-90

Order No. 0234070

Electret headband microphone

This microphone is the right choice for applications which require an excellent sound as well as an extra low acoustic feedback and a secure fit.

- Cardioid polar pattern for high back suppression
- Integrated and external windshield/pop noise head minimise noise from wind, breath and articulation
- Flexible cartridge support for reducing low impact sound
- Wide transmission range
- Extra stable positioning

Model	HSE-90
Polar pattern	cardioid
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	650 Ω
Sensitivity	10 mV/Pa
Max. sound pressure	120 dB
Power supply	≈ 1.5-9 V
Weight	25 g
Connection	3-pole mini XLR

- Movable gooseneck cartridge arm
- Temple rest
- Microphone windshield



HSE-70A/SK

Order No. 0235190

Hyperlight miniature earband microphone

- Unobtrusive design with earlobe support
- Omnidirectional polar pattern
- Premium high-quality back electret cartridge
- Supplied with adapters for the TXS-...HSE series (3-pole mini XLR) and pocket transmitters from JTS (4-pole mini XLR)
- Removable sweat-proof connection cable with 2.5 mm stereo plug (replacement connection cable: HSE-70C)
- Drip ring (protects cartridge from moisture)
- Optional adapters allow the application with devices from other manufacturers

Model	HSE-70A/SK
Polar pattern	omnidir.
System	back electret
Audio frequency range	20-20,000 Hz
Nominal impedance	2 kΩ
Sensitivity	5.6 mV/Pa
S/N ratio	> 65 dB
Max. sound pressure	140 dB
Power supply	≈ 0.8-5 V
Weight	6 g
Connection	2.5 mm stereo plug
	2 connecting adapters

- External power supply e.g. via phantom power supply adapter EMA-1 or EMA-300P
- Supplied with microphone windshield and bag



ECM-501L/SK

Order No. 0233900

Electret tie clip microphone

- Unobtrusive fit due to beige miniature design
- High-quality microphone cartridge with omnidirectional polar pattern
- Removable clip
- 1.2 m connection cable with 3-pole mini XLR

Model	ECM-501L/SK
Polar pattern	omnidir.
System	electret
Audio frequency range	20-20,000 Hz
Nominal impedance	1 kΩ
Sensitivity	5.6 mV/Pa
Max. sound pressure	110 dB
Power supply	= 1.5-9 V
Dimensions	Ø 5 mm x 10 mm
Weight	5 g
Connection	3-pole mini XLR



ECM-500L/SK

Order No. 0233890

Electret tie clip microphone

- Unobtrusive fit due to beige miniature design
- High-quality microphone cartridge with omnidirectional polar pattern
- Removable clip
- 1.2 m connection cable with 3.5 mm plug

Model	ECM-500L/SK
Polar pattern	omnidir.
System	electret
Audio frequency range	20-20,000 Hz
Nominal impedance	1 kΩ
Sensitivity	5.6 mV/Pa
Max. sound pressure	110 dB
Power supply	= 1.5-9 V
Dimensions	Ø 5 mm x 10 mm
Weight	5 g
Connection	3.5 mm plug



ECM-402L

Order No. 0233520

Electret tie clip microphone, miniature version.

- Removable clip and 1.2 m connection cable
- 3-pole mini XLR inline jack for connection to an optional phantom power supply adapter (EMA-300P) or a pocket transmitter TXS-...HSE

Model	ECM-402L
Polar pattern	cardioid
System	electret
Audio frequency range	70-15,000 Hz
Nominal impedance	1.5 kΩ
Sensitivity	7 mV/Pa
Max. sound pressure	120 dB
Power supply	via power supply adapter
Dimensions	Ø 7 mm x 22 mm
Weight	4 g
Connection	3-pole mini XLR



ECM-300L

Order No. 0232400

Electret lavalier microphone

- Extra compact version
- Phantom power via optional adapter EMA-300P
- With 6 m connection cable and tie clip

Model	ECM-300L
Polar pattern	omnidir.
System	electret
Audio frequency range	50-18,000 Hz
Nominal impedance	400 Ω
Sensitivity	4 mV/Pa
Max. sound pressure	120 dB
Power supply	via power supply adapter
Dimensions	Ø 9 mm x 21 mm
Weight	4 g
Connection	3-pole mini XLR, unbal.



ECM-3003

Order No. 0230340

Electret tie clip microphone

- Excellent sound quality
- Microphone cartridge with omnidirectional polar pattern
- Power supply in the 3.5 mm plug
- 4 m connection cable, strong clip
- Supplied w/o button cell battery LR-44

Model	ECM-3003
Polar pattern	omnidir.
System	electret
Audio frequency range	50-16,000 Hz
Nominal impedance	1 kΩ
Sensitivity	5.6 mV/Pa
S/N ratio	> 40 dB
Max. sound pressure	120 dB
Power supply	button cell 1.5 V (LR-44)
Dimensions	Ø 12 mm x 23 mm
Weight	70 g
Connection	3.5 mm plug



ECM-821LT

Order No. 0235450

Electret tie clip microphone

- Microphone cartridge with cardioid polar pattern
- Removable clip
- 0.8 m connection cable with 3.5 mm plug, with latching device
- Microphone windshield

Model	ECM-821LT
Polar pattern	cardioid
System	electret
Audio frequency range	50-16,000 Hz
Nominal impedance	680 Ω
Sensitivity	5.6 mV/Pa
Max. sound pressure	110 dB
Power supply	1.5-3 V
Dimensions	Ø 12 mm x 18 mm
Weight	20 g
Connection	3.5 mm plug



ATT100

Order No. 0259864

Tour guide transmitter

- 10+10 pre-programmed channels, channels 1-10 are transmitting with low power (operating range: approx. 200 m), channels 11-20 are transmitting with increased power (PMR446 standard: high operating range of up to 2 km)
- High battery capacity for continuous announcements of up to 6 hours
- 3 different operating modes can be selected:
 - Continuous transmission
 - Voice control
 - Control via push-to-talk buttons (PTT)

- Matching the tour guide receiver ATR200
- Fully programmable (depending on the application)
- Supplied with belt clip, lanyard

Licence-free, please refer to instruction manual on MONACOR's website.



ATR200

Order No. 0259863

2x

Tour guide receivers, set of 2.

- 20 pre-programmed channels
- Extra small and ultra-light (approx. 40 g)
- Channel coding
- Anti-noise system (no cracks or loud noise after end of transmission)
- Foolproof operation via 3 buttons only
- Large multifunction LED display (operation, charging, receiving)
- Lock function by means of sliding switch
- Micro USB jack for charging (also via PC)
- Matching the tour guide transmitter ATT100

- Connection for supplied earphones
- Belt clip
- USB charger for simultaneously charging 2 receivers ATR200 in less than 6 hours

Licence-free, please refer to the instruction manual on MONACOR's website.



COHS

Order No. 0259867

Universal headset for motorcycle helmets, with 2 microphones for full face helmets and jet helmets.

- For connection to the basic set BHS300N
- Cable-connected microphone and gooseneck microphone for mounting to full face helmets or jet/modular helmets

- Increased cable diameter (1.75 mm) and improved cable bending protection
- Waterproof plug with connection cable for basic set



G-7SET

Order No. 0250760



Pair of professional dual-band transceivers, case set,

consisting of 2 transceivers with belt clip, 2 clip-on mics with earphones, charger for 2 transceivers, 2 rech. battery packs.

- 8 PMR channels 446 MHz
- 69 LPD channels 433 MHz
- Boost function for a wide operating range
- High-performance rech. batteries for high operational availability
- Manual transmit mode (PTT) or hands-free voice-activated transmit mode (VOX)
- Monitoring function
- Automatic squelch
- Channel scan mode (SCAN)
- CTCSS tones

Model	G-7SET
Carrier frequency range	446.00625-446.09375 MHz (PMR) 433.075-434.775 MHz (LPD)
Admiss. ambient temp.	-20 °C to +55 °C
Power supply	4 x rech. battery AA size, 800 mAh
Dimensions	58 x 195 x 34 mm
Total weight	1.203 kg
Connections	2.5 mm jack (microphone) 3.5 mm jack (speaker)
Transmitting power	500 mW
Operating range	≤ 5,000 m

- Dual watch
- Vibracall function
- Key lock
- Backlit LCD
- Supplied in a robust hard-sided case

Licence-free, please refer to instruction manual on the MONACOR website.



42-channel digital PLL voice transmission system, 823-832 MHz and 863-865 MHz

- As a tour guide system also suitable for any other application in which a two-way communication is required, e.g. training sessions, lectures with questions and answers and group tours or factory tours
- High resistance to interference due to digital transmission
- High operating range
- Frequency range optimised for voice transmissions
- Interference-free parallel operation of up to 42 different channels possible

ATS-80R

Order No. 0250001

42-channel PLL receiver

- Supplied with matching earphone
- Adjustable headphone output
- Automatic switch-off (power-saving function)
- High-contrast OLED display
- Battery status indication
- Push-to-talk button with 3 operating modes (PTT, PTB, PTM)
- Alarm-off button
- Operating range alert
- Call alert
- Mute function
- Automatic channel lock
- Built-in microphone
- Full duplex communication (release by transmitter)
- Hearing Aid Compatible (HAC)
- Belt clip

- Lanyard
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: 47 x 109 x 35 mm
- Weight: 53 g

Please consider the regulations and requirements in the country of application. Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



ATS-80T

Order No. 0250002

42-channel PLL transmitter, for microphone operation and audio line signals.

- 3 different operating modes: guiding, lecturing and discussions for versatile applications
- Integrated microphone, adjustable gain
- Supplied with additional earphone microphone
- Audio line input via 3.5 mm stereo jack
- High-contrast OLED display
- Battery status indication
- Priority assignment
- Alarm function
- Talk/mute button
- Call button
- Channel lock
- Full-duplex communication
- Attendance monitoring
- Belt clip

- Lanyard
- Adjustable transmitting power (high: ≤ 20 mW/ low: ≤ 10 mW)
- Operating range: approx. 100 m
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: 47 x 97 x 35 mm
- Weight: 53 g

Please consider the regulations and requirements in the country of application. Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



ATS-80ST

Order No. 0179440



42-channel stationary PLL transmitter, for microphone operation and audio line signals. In combination with ATS-80R, also suitable for interpretation systems.

- Stereo audio line input via RCA L/R
- Microphone input via comb. jack (XLR/6.3 mm jack)
- Mono audio line output via RCA
- Loop input and loop output via 6.3 mm jack
- Adjustable headphone output for monitoring
- Removable antenna (TNC)
- Supports Bluetooth
- USB audio programming interface
- High-contrast OLED display
- Channel name and ID can be edited

- Adjustable transmitting power (high: ≤ 20 mW/ low: ≤ 10 mW)
- Operating range: approx. 100 m
- Power is provided via encl. plug-in power supply
- Dimensions: 215 x 51 x 210 mm
- Weight: 1.25 kg

Please consider the regulations and requirements in the country of application. Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



ATS-80EM

Order No. 0221370

Earphone microphone

- Suitable for 42-channel PLL transmitter ATS-80T
- Electret headband microphone
- Mono earphone with ring holder for a secure fit
- Clip
- 1 m connection cable with 3.5 mm plug



ATS-85PS

Order No. 0179470

Charging station, for simultaneously charging rech. batteries of up to 5 devices from the ATS-80 series.

- Each slot with LED for indicating battery charging status
- Mechanical reverse polarity protection
- Matrix LCD
- Metal housing

- Including plug-in power supply
- Supplied with programming software for ATS-80R and ATS-80T (SYNC function)



ATS-825C

Order No. 0179450

Transport case with integrated charging function and programming function, for transmitters and receivers from the ATS-80 series.

- For simultaneously charging rech. batteries of up to 25 devices
- Each slot with LED for indicating battery charging status

- Mechanical reverse polarity protection
 - Matrix LCD
 - Transport case with carrying handle, lockable
 - Supplied with matching power supply
 - Supplied with programming software for ATS-80R and ATS-80T (SYNC function)
- Supplied w/o devices.**



ATS-850PS

Order No. 0179460



Charging station, for simultaneously charging rech. batteries of up to 50 devices from the ATS-80 series.

- Each slot with LED for indicating battery charging status
- Mechanical reverse polarity protection
- Fan cooling
- Matrix LCD

- Metal housing
- 482 mm (19") rack installation
- Supplied with programming software for ATS-80R and ATS-80T (SYNC function)



40-channel Mono PLL Voice Transmission System, 863-865 MHz

- Economy tour guide system
- Due to the narrow-band frequency range which has been perfectly adapted to voice transmissions, a parallel operation of up to 12 different channels is possible without any interference
- Licence-free in the EU

ATS-50R

Order No. 0255160

40-channel PLL receiver

- Supplied with matching earpiece
- Adjustable headphone output
- Switches off automatically after not receiving an input signal for 20 minutes (power-saving function)
- LCD for indicating channel, carrier signal and battery status
- Autolock function

- Belt clip
- Power supply via 1 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: 42 x 98 x 24 mm
- Weight: 45 g

Licence-free in the EU.



ATS-50T

Order No. 0255170

40-channel PLL transmitter, for microphone operation and audio line signals.

- Integrated microphone
- Supplied with additional electret tie clip microphone
- Audio line input via 3.5 mm stereo jack
- LCD for indicating channel and battery status
- Mute button
- Belt clip
- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 110 m

- Power supply via 1 x 1.2 V NiMH rech. battery AA size (not supplied)
- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones
- Dimensions: 42 x 98 x 24 mm
- Weight: 42 g

Licence-free in the EU.



ATS-50PS

Order No. 0250080

Intelligent PWM quick-charge station, for simultaneously charging rech. batteries (NC, NiMH) of two devices from the ATS-50 series.

- Average charging time, depending on capacity and condition of the rechargeable batteries used: approx. 3-4 hours, e.g. for 1,300 mAh rech. batteries

- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Including plug-in power supply



ATS-25C

Order No. 0255180

Transport case with integrated charging function, for transmitters and receivers of the ATS-50 series.

- For simultaneously charging rech. batteries of up to 25 devices
- Each slot with LED for indicating battery charging status

- Transport case with carrying handle, lockable
- Supplied with matching power supply
- Dimensions: 442 x 160 x 290 mm
- Weight: 5.2 kg



40-channel Mono PLL Voice Transmission System, 863-865 MHz

- Economy tour guide system
- Narrow-band frequency range which has been perfectly adapted to voice transmissions. Thus, a parallel operation of up to 12 different channels is possible without any interference
- Licence-free in the EU

ATS-42R

Order No. 0254560

40-channel PLL receiver

- Including matching clip-on earphone with rubber ear hook
- Adjustable headphone output
- Switches off automatically after not receiving an input signal for 30 minutes (power-saving function)
- LCD for indicating channel and battery status
- Noise squelch
- Channel autolock function

- Lanyard
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: 66 x 102 x 26 mm
- Weight: 57 g

Licence-free in the EU.



ATS-42T

Order No. 0254570

40-channel PLL transmitter, for microphone applications.

- Supplied with additional electret tie clip microphone
- LCD for indicating channel and battery status
- Channel autolock function
- Lanyard
- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 210 m
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied)

- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones
- Dimensions: 66 x 102 x 26 mm
- Weight: 55 g

Licence-free in the EU.



ES-16

Order No. 0220740

Mono earphone

- Flexible rubber ear hook for a secure fit
- Dynamic 32 Ω system
- 1.2 m connection cable with gold-plated 3.5 mm stereo plug

Model	ES-16
Max. input power	50 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	105 dB/mW
Cable	1.2 m
Plug	3.5 mm stereo plug
Weight w/o cable	8 g



ATS-10PS

Order No. 0243530

Automatic quick-charge station, for simultaneously charging rech. batteries of two devices from the ATS-10 series.

- Average charging time, depending on capacity and condition of the rechargeable batteries used: approx. 3-4 hours, e.g. for 1,300 mAh rech. batteries
- Operating LEDs for "charging" and "charging completed"
- Including plug-in power supply



16-channel Digital Voice Transmission System, 863-865 MHz

- Suitable as a tour guide system, trainer/student system and for any other application in which a certain voice source is to be distributed to one or more receivers
- High resistance to interference due to digital transmission
- Parallel operation of up to 4 different channels possible without any interference
- Licence-free in the EU

ATS-22R

Order No. 0257110

16-channel miniature receiver, with intercom function.

- Intercom function with transmitter ATS-22T via push-button
- Supplied with matching clip-on earphone
- Switches off automatically after not receiving an input signal for 20 minutes (power-saving function)

- Built-in microphone
- LCD for indicating channel, carrier signal, volume and battery status
- Power supply via integrated rech. lithium battery (3.7 V/600 mAh)
- Micro USB charging connection for ATS-12CB, ATS-35CB or USB charger, available at option
- Dimensions: 40 x 87 x 12 mm

Licence-free in the EU.



ATS-22T

Order No. 0257120

16-channel miniature transmitter, for microphone operation and audio line signals, with intercom function.

- Supplied with headset
- Activation switch for intercom function with the receiver ATS-22R
- Audio line input via 3.5 mm jack at the headset
- LCD for indicating channel and battery status
- Mute button

- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 70 m
- Power supply via integrated rech. lithium battery (3.7 V/600 mAh)
- Micro USB charging connection for ATS-12CB, ATS-35CB or USB charger, available at option
- Dimensions: 40 x 80 x 12 mm
- Weight: 37 g

Licence-free in the EU.



ATS-20R

Order No. 0255640

16-channel miniature receiver

- Supplied with matching clip-on earphone
- Switches off automatically after not receiving an input signal for 20 minutes (power-saving function)
- LCD for indicating channel, carrier signal, volume and battery status

- Autolock function
- Lanyard
- Power supply via integrated rech. lithium battery (3.7 V/600 mAh)
- Micro USB charging connection for ATS-12CB, ATS-35CB or USB charger, available at option
- Dimensions: 40 x 87 x 12 mm, Weight: 37 g

Licence-free in the EU.



ATS-20T

Order No. 0255650

16-channel miniature transmitter, for microphone operation and audio line signals.

- Supplied with electret tie clip microphone
- Microphone input/audio line input via 3.5 mm jack with automatic detection, depending on the configuration (mono/stereo)
- LCD for indicating channel and battery status
- Mute button, Lanyard

- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 100 m
- Power supply via integrated rech. lithium battery (3.7 V/600 mAh)
- Micro USB charging connection for ATS-12CB, ATS-35CB or USB charger, available at option
- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones
- Dimensions: 40 x 80 x 12 mm, Weight: 37 g

Licence-free in the EU.



ATS-12CB

Order No. 0255660

Transport bag with integrated charging function, for transmitters and receivers of the ATS-20 series.

- For simultaneously charging rech. batteries of up to 12 devices
- Each slot with LED for indicating battery charging status
- Black nylon bag with zip fastener, carrying handle and compartments for accessories



- Supplied with matching power supply
- Dimensions: 350 x 110 x 120 mm
- Weight: 1.03 kg

ATS-35CB

Order No. 0255670

Transport bag with integrated charging function, for transmitters and receivers of the ATS-20 series.

- For simultaneously charging rech. batteries of up to 35 devices
- Each slot with LED for indicating battery charging status
- Black nylon bag with zip fastener, carrying handle and compartments for accessories



- Supplied with matching power supply
- Dimensions: 420 x 140 x 250 mm
- Weight: 2.9 kg

Professional 16-channel Mono PLL Audio Transmission System, 863-865 MHz

- Suitable as a tour guide system and for any other application in which a certain audio source or voice source is to be distributed to one or more receivers
- Wireless transmissions of audio signals with one transmitter and one receiver are also possible
- Due to small frequency spacing within this free frequency range, simultaneous operation with more than 2 transmitters is not recommended (with optimum conditions, up to 8 transmitters max. are possible)
- Licence-free in the EU

ATS-16R

Order No. 0244680

16-channel PLL receiver

- Built-in speaker
- Including matching clip-on earphone with rubber ear hook
- Connection for optional audio tube earphone
- Audio output via 3.5 mm stereo jack
- Pilot tone squelch and noise squelch

- Status indication of rech. battery, indication of carrier signal
- Volume level control, belt clip
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied) or low-voltage jack (5 V)
- Dimensions: 66 x 111 x 35 mm
- Weight: 97 g

Licence-free in the EU.



ATS-16T

Order No. 0244690

16-channel PLL transmitter, for microphone operation and line audio signals.

- Integrated microphone
- Supplied with additional electret tie clip microphone
- Audio line input via 3.5 mm mono jack
- Status indication of rech. battery, indication of carrier signal
- Volume level control, belt clip

- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 110 m
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied) or low-voltage jack (5 V)
- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones
- Dimensions: 66 x 111 x 35 mm
- Weight: 81 g

Licence-free in the EU.



ATS-12HT

Order No. 0253310

Hand-held microphone with integrated transmitter

- Matching the 16-channel mono PLL audio transmission system of the ATS-10 series and ATS-16R
- Electret microphone cartridge, cardioid polar pattern
- 16 selectable channels
- Pilot tone
- Mute function

- Push-to-talk function
- Adjustable transmitting power (high: ≤ 10mW/ low: ≤ 1 mW)
- Operating range: approx. 50 m
- LCD for indicating channel and battery status
- Power supply via 2 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: Ø 35 mm x 200 mm
- Weight: 93 g

Licence-free in the EU.



ATS-16BAG

Order No. 0220720

Imitation leather protective bag, for transmitters and receivers of the ATS-16 series.

With belt clip and hook and loop fastener.



ATS-16CORD

Order No. 0220730

Lanyard, for transmitters and receivers of the ATS-16 series. Nylon version.



ATS-16PS

Order No. 0244670

Intelligent PWM quick-charge station, for simultaneously charging rech. batteries (NC, NiMH) of two devices from the ATS-16 series.

- Average charging time, depending on capacity and condition of the rechargeable batteries used: approx. 3-4 hours, e.g. for 1,300 mAh rech. batteries
- Mechanical reverse polarity protection



- Each slot with LED for indicating a fault and battery charging status
- Including plug-in power supply

ATS-36C

Order No. 0244700

Transport case with intelligent PWM quick-charge function, for transmitters and receivers of the ATS-16... series.

- For simultaneously charging rech. batteries (NC, NiMH) of up to 36 devices
- Average charging time, depending on capacity and condition of the rech. batteries used: approx. 5-6 hours, e.g. for 1,300 mAh rech. batteries
- Mechanical reverse polarity protection



- Each slot with LED for indicating a fault and batt. charging status
- Lockable plastic transport case with castors, with switch-mode power supply

MXR-60PRO

Order No. 0200500



Professional 6-channel audio mixer, with DSP effect unit, integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 4 mono input channels with gain control, 3-way equalizer and pan pot
- 1 stereo input channel with 3-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- 16 different DSP effects
- Adjustable aux return input and FX send output
- +48 V phantom power, can be activated as required
- Adjustable headphone output
- Stereo LED level display



Model	MXR-60PRO
Mic input	0.6 mV, bal. 4 x XLR
Line input	80 mV (stereo), 2 x 6.3 mm jack L/R 7 mV (mono), 4 x 6.3 mm jack
Aux input	340 mV, 1 x 6.3 mm jack L/R
Master output	760 mV, 1 x 6.3 mm jack L/R
Effect send	9V, 1 x 6.3 mm jack
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 75 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer midrange	±15 dB/2.5 kHz
Equalizer treble	±15 dB/12 kHz
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	334 x 93 x 320 mm
Weight	3.2 kg

MXR-40PRO

Order No. 0200490



Professional 4-channel audio mixer, with DSP effect unit, integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 2 mono input channels with gain control, 3-way equalizer and pan pot
- 1 stereo input channel with 3-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- 16 different DSP effects
- Adjustable aux return input and FX send output
- +48 V phantom power, can be activated as required
- Adjustable headphone output
- Stereo LED level display



Model	MXR-40PRO
Mic input	0.6 mV, bal. 2 x XLR
Line input	80 mV (stereo), 1 x 6.3 mm jack L/R 7 mV (mono), 2 x 6.3 mm jack
Aux input	340 mV, 1 x 6.3 mm jack L/R
Master output	760 mV, 1 x 6.3 mm jack L/R
Effect send	9V, 1 x 6.3 mm jack
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 75 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer midrange	±15 dB/2.5 kHz
Equalizer treble	±15 dB/12 kHz
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	282 x 93 x 320 mm
Weight	2.7 kg

MXR-160

Order No. 0200150



16-channel audio mixer, with integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 14 mono input channels with gain control, 3-way equalizer and pan pot
- 1 stereo input channel with 3-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- DSP delay, adjustable
- Adjustable aux return input and FX send output
- Tape record/play connections
- 5-band stereo graphic equalizer
- +48 V phantom power, can be activated as required
- Pre-fader listening (PFL) to the stereo input channels via adjustable headphone output
- Stereo LED level display



Model	MXR-160
Mic input	2.2 mV, bal. 14 x XLR
Line input	50 mV (stereo), 1 x 6.3 mm jack L/R 30 mV (mono), 14 x 6.3 mm jack
Tape (play)	290 mV, 1 x RCA L/R
Aux input	420 mV, 1 x 6.3 mm jack L/R
Master output	880 mV, bal. 1 x XLR L/R 880 mV, 1 x 6.3 mm jack L/R
Effect send	9V, 1 x 6.3 mm jack
Tape (rec)	400 mV, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 82 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer midrange	±15 dB/2.5 kHz
Equalizer treble	±15 dB/12 kHz
Power supply	~ 230 V/50 Hz/35 VA
Dimensions	614 x 53 x 340 mm
Weight	5.4 kg

MXR-120

Order No. 0200100



12-channel audio mixer, with integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 10 mono input channels with gain control, 3-way equalizer and pan pot
- 1 stereo input channel with 3-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- DSP delay, adjustable
- Adjustable aux return input and FX send output
- Tape record/play connections
- 5-band stereo graphic equalizer
- +48 V phantom power, can be activated as required
- Pre-fader listening (PFL) to the stereo input channels via adjustable headphone output
- Stereo LED level display



Model	MXR-120
Mic input	2.2 mV, bal. 10 x XLR
Line input	50 mV (stereo), 1 x 6.3 mm jack L/R 30 mV (mono), 10 x 6.3 mm jack
Tape (play)	290 mV, 1 x RCA L/R
Aux input	420 mV, 1 x 6.3 mm jack L/R
Master output	880 mV, bal. 1 x XLR L/R 880 mV, 1 x 6.3 mm jack L/R
Effect send	9V, 1 x 6.3 mm jack
Tape (rec)	400 mV, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 82 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer midrange	±15 dB/2.5 kHz
Equalizer treble	±15 dB/12 kHz
Power supply	~ 230 V/50 Hz/30 VA
Dimensions	498 x 53 x 340 mm
Weight	4.4 kg

MXR-80

Order No. 0200080



8-channel audio mixer, with integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 6 mono input channels with gain control, 3-way equalizer and pan pot
- 1 stereo input channel with 3-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- DSP delay, adjustable
- Adjustable aux return input and FX send output
- Tape record/play connections
- 5-band stereo graphic equalizer
- +48 V phantom power, can be activated as required
- Pre-fader listening (PFL) to the stereo input channels via adjustable headphone output
- Stereo LED level display



Model	MXR-80
Mic input	2.2 mV, bal. 8 x XLR
Line input	50 mV (stereo), 1 x 6.3 mm jack L/R 30 mV (mono), 8 x 6.3 mm jack
Tape (play)	290 mV, 1 x RCA L/R
Aux input	420 mV, 1 x 6.3 mm jack L/R
Master output	880 mV, bal. 1 x XLR L/R 880 mV, 1 x 6.3 mm jack L/R
Effect send	9 V, 1 x 6.3 mm jack
Tape (rec)	400 mV, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 82 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer midrange	±15 dB/2.5 kHz
Equalizer treble	±15 dB/12 kHz
Power supply	~ 230 V/50 Hz/25 VA
Dimensions	382 x 53 x 340 mm
Weight	3.4 kg

MXR-60

Order No. 0200630



6-channel audio mixer, with integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 4 mono input channels with gain control, 3-way equalizer and pan pot
- 1 stereo input channel with 3-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- DSP delay, adjustable
- Adjustable aux return input and FX send output
- Tape record/play connections
- 5-band stereo graphic equalizer
- +48 V phantom power, can be activated as required
- Pre-fader listening (PFL) to the stereo input channels via adjustable headphone output
- Stereo LED level display



Model	MXR-60
Mic input	2.2 mV, bal. 4 x XLR
Line input	50 mV (stereo), 1 x 6.3 mm jack L/R 30 mV (mono), 4 x 6.3 mm jack
Tape (play)	290 mV, 1 x RCA L/R
Aux input	420 mV, 1 x 6.3 mm jack L/R
Master output	880 mV, bal. 1 x XLR L/R 880 mV, 1 x 6.3 mm jack L/R
Effect send	9 V, 1 x 6.3 mm jack
Tape (rec)	400 mV, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 82 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer midrange	±15 dB/2.5 kHz
Equalizer treble	±15 dB/12 kHz
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	324 x 53 x 340 mm
Weight	2.9 kg

MXR-6

Order No. 0200280



6-channel audio mixer, with DSP effect unit, integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 4 mono input channels with gain control, 2-way equalizer and pan pot
- 2 stereo input channels with 2-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- 16 adjustable DSP effects
- Adjustable aux return input and FX send output
- +48 V phantom power, can be activated as required
- Adjustable headphone output
- Stereo LED level display
- Power is provided via USB or enclosed power supply



Model	MXR-6
Mic input	2 mV, bal. 4 x XLR
Line input	100 mV (stereo), 2 x 6.3 mm jack L/R 60 mV (mono), 2 x 6.3 mm jack
Aux input	400 mV, 1 x 6.3 mm jack L/R
Master output	500 mV, 1 x 6.3 mm jack L/R
Effect send	4.4 V, 1 x 6.3 mm jack
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 83 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer treble	±15 dB/12 kHz
Power supply	USB or encl. power supply
Dimensions	308 x 53 x 205 mm
Weight	1.9 kg

MXR-4

Order No. 0200250



4-channel audio mixer, with DSP effect unit, integrated MP3 player and Bluetooth receiver.

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full-duplex USB port (allows for simultaneous recording and reproduction) for reproduction of digital audio data from a PC and for recording mixings onto a PC
- 2 mono input channels with gain control, 2-way equalizer and pan pot
- 1 stereo input channel with 2-way equalizer and balance control
- MP3 player
- USB interface
- Bluetooth receiver
- 16 adjustable DSP effects
- Adjustable aux return input and FX send output
- +48 V phantom power, can be activated as required
- Adjustable headphone output
- Stereo LED level display
- Power is provided via USB or supplied power supply



Model	MXR-4
Mic input	2 mV, bal. 2 x XLR
Line input	100 mV (stereo), 2 x 6.3 mm jack L/R 60 mV (mono), 2 x 6.3 mm jack
Aux input	400 mV, 1 x 6.3 mm jack L/R
Master output	500 mV, 1 x 6.3 mm jack L/R
Effect send	4.4 V, 1 x 6.3 mm jack
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	< 0.03%
S/N ratio	> 83 dBA
Equalizer bass	±15 dB/80 Hz
Equalizer treble	±15 dB/12 kHz
Power supply	USB or encl. power supply
Dimensions	228 x 53 x 205 mm
Weight	1.4 kg

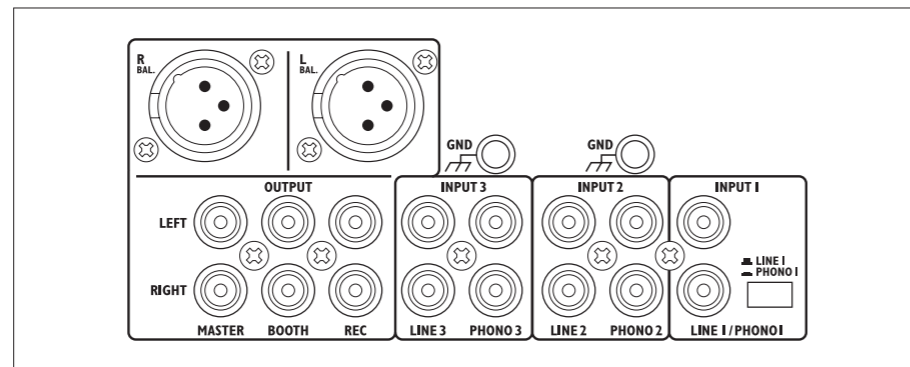
MPX-30DMP

Order No. 0202760

Stereo DJ mixer with integrated MP3 player

- Mixer:
- 3 input channels (5 stereo ways, 1 DJ microphone way)
 - Input channels, each with gain control, 3-way equalizer and cue button, with LED level display of the stereo master
 - Talkover function
 - Adjustable headphone output with pre-fader listening to the stereo input channels and the master output
 - Crossfader with switchable characteristic and reverse switch
 - Master output with stereo LED level display
 - Additional outputs booth and record
- MP3 player with USB interface and SD/MMC card slot:
- USB storage media can be connected directly (e.g. USB flash drive)
 - For SD/MMC cards up to 32 GB (FAT 6/FAT 32), available at option
 - Alphanumeric display
 - Repeat function
 - Blue backlight display

Model	MPX-30DMP
Mic input	1 mV, 1 x 3-pole XLR/6.3 mm jack
Line input	70 mV (line 1), 1 x RCA L/R 50 mV (line 2-3), 2 x RCA L/R
Phono input	2 mV (phono 1), 1 x RCA L/R 1 mV (phono 2-3), 2 x RCA L/R
Master output	1 V, 1 x 3-pole XLR L/R, bal 580 mV, 1 x RCA L/R
Record output	200 mV, 1 x RCA L/R
Booth output	500 mV, 1 x RCA L/R
Headphones	≥ 8 Ω, stereo
Frequency range	20-20,000 Hz
THD	< 0.15%
S/N ratio	> 60 dB, unweighted
Equalizer bass	+12 dB, -32 dB/50 Hz
Equalizer midrange	+12 dB, -32 dB/1.2 kHz
Equalizer treble	+12 dB, -32 dB/10 kHz
Talkover	-16 dB
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	245 x 315 x 120 mm
Weight	3 kg



MPX-1/BK

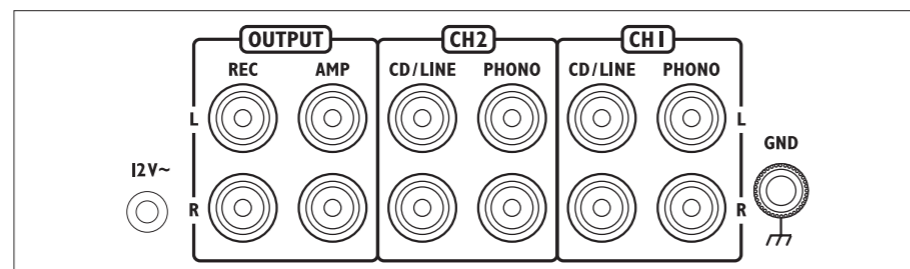
Order No. 0202170



Stereo DJ mixer

- 2 stereo input channels, each with gain control and 2-way equalizer, switchable phono/line
- DJ microphone channel with talkover, manually selectable
- Pre-fader listening (PFL) to the stereo input channels via adjustable headphone output
- Replaceable crossfader for crossfading between the two input channels
- Particularly easy-sliding high-quality faders with additional guides
- Stereo LED level display

Model	MPX-1/BK
Mic input	1.5 mV, 49 dB, 1 x 6.3 mm jack
Line input	150 mV, 61 dB, 2 x RCA L/R
Phono input	3 mV, 2 x RCA L/R
Master output	1 V/600 Ω, 1 x RCA L/R
Record output	0.5 V/600 Ω, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	0.1%
Equalizer bass	±12 dB/50 Hz
Equalizer treble	±12 dB/10 kHz
Talkover	-16 dB
Power supply	via encl. plug-in power supply
Dimensions	164 x 218 x 77 mm
Weight	1.2 kg



MPX-206/SW

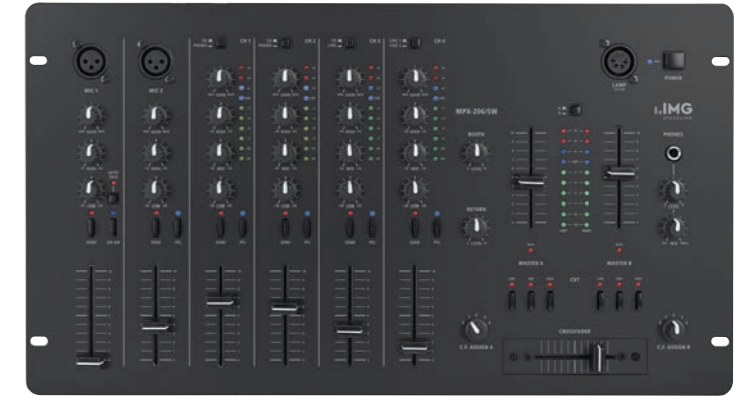
Order No. 0202480



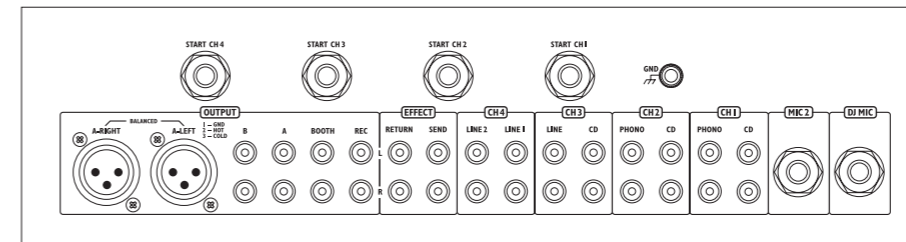
6-channel stereo mixer

- 4 stereo input channels, each with separate LED level display, switchable line/phono (channels 1-2) and line/line (channels 3-4), gain control, 3-way equalizer with cut function
- 1 DJ microphone channel with switchable automatic talkover and 1 guest microphone channel, both channels with gain control as well as 2-way tone control
- 1 stereo effect way (send/return)
- 2 master outputs, each with beat LED and 1 booth output
- 1 record output
- LED level display, switchable between both master outputs
- Crossfader with assignment switches for channels 1-4 and cut switch function to suppress high frequencies, midrange and bass frequencies

- Adjustable headphone output
- Fader start for the stereo inputs (channels 1-4)
- Connection for gooseneck light GNL-404



Model	MPX-206/SW
Mic input	1.5 mV, 2 x 6.3 mm jack
Line input	150 mV, 3 x RCA L/R
CD input	150 mV, 3 x RCA L/R
Phono input	3 mV, 2 x RCA L/R
Effect return	135 mV, 1 x RCA L/R
Master output	1 V/600 Ω, 1 x 3-pole XLR L/R
Record output	300 mV/600 Ω, 1 x RCA L/R
Monitor output	1 V/600 Ω, 1 x RCA L/R
Effect send	300 mV/600 Ω, 1 x RCA L/R
Headphones	≥ 8 Ω, 6.3 mm jack
Gooseneck lamp	12 V/5 W, 4-pole XLR
Frequency range	20-20,000 Hz
THD	0.05%
S/N ratio	> 50 dB
Equalizer bass	+15 dB, -30 dB/50 Hz
Equalizer midrange	+15 dB, -30 dB/1 kHz
Equalizer treble	+15 dB, -30 dB/10 kHz
Talkover	-12 dB, switchable
Power supply	~ 230 V/50 Hz/14 VA
Dimensions	482 x 266 x 110 mm, 6 RS
Weight	6.48 kg



MPX-205/SW

Order No. 0202190

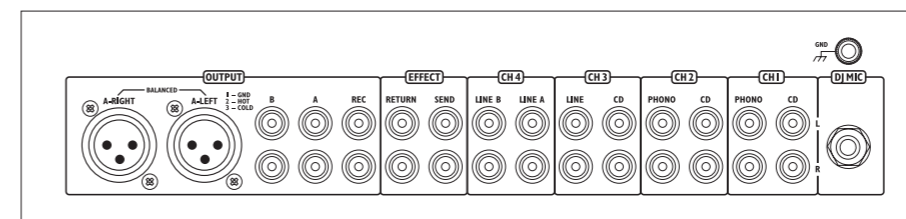


Stereo DJ mixer

- 1 DJ mic, 4 stereo channels, switchable line/phono (1+2) and line/line (3+4)
- Stereo effect send/return
- 2 master outputs
- Automatic talkover and on-air switch for DJ mic
- LED level display, can be switched between the two master outputs and PFL
- 3-way equalizer with cut function for stereo channels
- 2-way tone control for DJ mic
- Gain control for each input
- Pre-fader listening (PFL) to the stereo inputs and outputs via adjustable headphone output
- Crossfader with assignment switches
- Connection for gooseneck light GNL-404



Model	MPX-205/SW
Mic input	1.5 mV, 1 x 6.3 mm jack
Line input	150 mV, 3 x RCA L/R
CD input	150 mV, 3 x RCA L/R
Phono input	3 mV, 2 x RCA L/R
Effect return	135 mV, 1 x RCA L/R
Master output	1 V/600 Ω, 1 x 3-pole XLR L/R
Record output	330 mV/600 Ω, 1 x RCA L/R
Monitor output	300 mV/600 Ω, 1 x RCA L/R
Effect send	1.2 V/600 Ω, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Gooseneck lamp	12 V/5 W, 1 x 4-pole XLR
Frequency range	20-20,000 Hz
THD	0.05%
S/N ratio	> 50 dB
Equalizer bass	+15 dB, -30 dB/50 Hz
Equalizer midrange	+15 dB, -30 dB/1 kHz
Equalizer treble	+15 dB, -30 dB/10 kHz
Talkover	-12 dB, automatic
Power supply	~ 230 V/50 Hz/14 VA
Dimensions	482 x 222 x 110 mm, 5 RS
Weight	4.3 kg



MPX-410DMP

Order No. 0202850

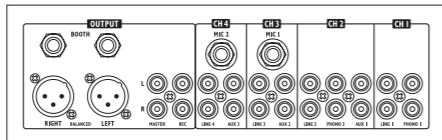


Stereo DJ mixer with integrated MP3 player and Bluetooth receiver

Mixer:

- 4 stereo input channels, switchable MP3/phono/line (channel 1), aux/phono/line (channel 2) and aux/mic/line (channels 3-4)
- Input channels, each with gain control and 2-way tone control
- 1 DJ microphone channel, adjustable, with 2-way tone control
- Adjustable headphone output with pre-fader listening (PFL) to the stereo input channels and the master output
- Crossfader with assignment switches
- Master output with stereo LED level display
- Additional outputs booth and record

- Bluetooth receiver for wireless connection of laptops, smartphones or tablet PCs
- USB storage media can be connected directly (e.g. USB flash drive)
- For SD/MMC cards up to 32 GB (FAT16/FAT32), available at option
- Alphanumeric display
- Repeat function
- Blue backlit display



Model	MPX-410DMP
Mic input	1.5 mV, 3 x 6.3 mm jack
Line input	200 mV, 4 x RCA L/R
Phono input	2 mV, 2 x RCA L/R
Aux input	200 mV, 3 x RCA L/R
Master output	1 V, 1 x 3-pole XLR (bal.) 1 x RCA L/R
Record output	400 mV, 1 x RCA L/R
Booth output	1 V, 1 x 6.3 mm jack L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Bluetooth	yes
Frequency range	20-20,000 Hz
THD	< 0.15%
S/N ratio	> 60 dB, unweighted
Equalizer bass	±15 dB/50 Hz (channels 1-4) ±12 dB/100 Hz (DJ mic)
Equalizer treble	±15 dB/10 kHz (channels 1-4) ±12 dB/7 kHz (DJ mic)
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	482 x 88 x 125 mm, 2 RS
Weight	2.9 kg

MPX-622/SW

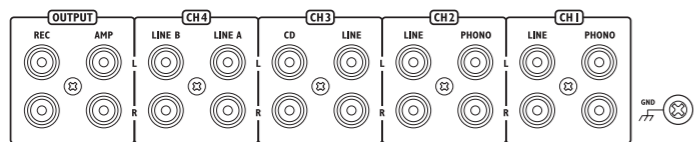
Order No. 0202210



6-channel stereo audio mixer, particularly suitable for PA and DJ applications.

- 2 mono microphone channels with talkover switch and 2-way tone control
- 4 stereo input channels, switchable phono/line (channels 1 and 2) or line/line (channels 3 and 4)
- 1 stereo master output
- 1 stereo record output, independent of the master
- 3-way equalizer with centre click for master output and record output

- Pre-fader listening to each stereo input channel and the master output via adjustable stereo headphone output
- Switchable crossfader for crossfading between channels 1-4, any assignment possible
- Stereo LED level display



Model	MPX-622/SW
Mic input	1 mV, 2 x 6.3 mm jack
Line input	150 mV, 5 x RCA L/R
CD input	150 mV, 1 x RCA L/R
Phono input	3 mV, 2 x RCA L/R
Master output	0.775 V/600 Ω, 1 x RCA L/R
Record output	0.775 V/600 Ω, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	0.1%
S/N ratio	65 dB
Equalizer bass	±10 dB/100 Hz
Equalizer midrange	±10 dB/1 kHz
Equalizer treble	±10 dB/10 kHz
Talkover	-15 dB
Power supply	~ 230 V/50 Hz/10 VA
Dimensions	482 x 89 x 95 mm, 2 RS
Weight	2.4 kg

MPX-44/SW

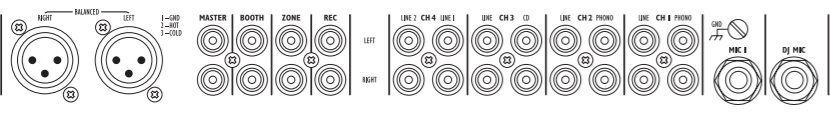
Order No. 0202420



6-channel stereo DJ mixer, with black brushed aluminium front panel.

- 6 input channels (4 stereo ways, 2 microphone ways)
- Stereo input channels, switchable 2 x phono/line and 2 x line/line, with LED level display of the stereo master
- Input channels, each with gain control and 3-way equalizer, stereo input channels with cut function
- DJ mic with automatic talkover, PAD switch and on-air switch
- Mic with PAD switch and on-air switch
- Switches illuminate blue when activated

- Adjustable, crossfader-controlled headphone output with pre-fader listening (PFL) to the stereo input channels and mic
- Replaceable crossfader with assignment switches
- Especially easy-sliding high-quality faders
- Master output with stereo LED level display
- Additional outputs booth and zone
- Connection for gooseneck light GNL-204



Model	MPX-44/SW
Mic input	1.5 mV, 2 x 6.3 mm jack
Line input	150 mV, 5 x RCA L/R
CD input	150 mV, 1 x RCA L/R
Phono input	3 mV, 2 x RCA L/R
Master output	1 V/600 Ω, 1 x 3-pole XLR, 1 x RCA L/R
Record output	0.5 V/600 Ω, 1 x RCA L/R
Monitor output	1 V/600 Ω (zone), 1 x RCA L/R
Booth output	1 V/600 Ω, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Gooseneck lamp	12 V/0.75 W, 1 x BNC
Frequency range	20-20,000 Hz
THD	0.1%
S/N ratio	61 dB, unweighted
Equalizer bass	+12 dB, -12 dB/50 Hz (mic) +15 dB, -30 dB/50 Hz (channels 1-4)
Equalizer midrange	+12 dB, -12 dB/1 kHz (mic) +15 dB, -30 dB/1 kHz (channels 1-4)
Equalizer treble	+12 dB, -12 dB/10 kHz (mic) +15 dB, -30 dB/10 kHz (channels 1-4)
Talkover	-16 dB, automatic
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	482 x 177 x 105 mm, 4 RS
Weight	3.6 kg

MMX-602/SW

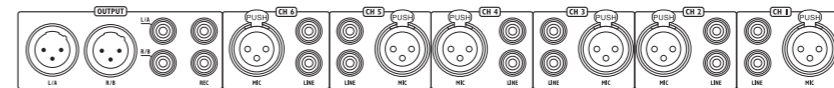
Order No. 0202230



Microphone line mixer, 6 channels.

- 6 stereo line inputs, 6 balanced mono microphone inputs, switchable
- Adjustable automatic talkover (-12 dB), switchable for channel 1 or channels 1+2
- Balance control for each stereo input channel
- 3-way equalizer
- 12 V phantom power can be activated as required
- LED VU meter, peak LED
- Master output and record output

- Output can be switched stereo/mono
- Adjustable headphone output
- 482 mm (19") rack installation, 1 RU



Model	MMX-602/SW
Mic input	1 mV/6.6 kΩ, 6 x 3-pole XLR, bal.
Line input	100 mV/10 kΩ, 6 x RCA L/R
Master output	1 V/600 Ω, 1 x RCA L/R 1 x 3-pole XLR L/R, bal.
Record output	310 mV/600 Ω, 1 x RCA L/R
Headphones	> 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	0.1%
S/N ratio	62 dB, unweighted
Equalizer bass	±12 dB/50 Hz
Equalizer midrange	±12 dB/1 kHz
Equalizer treble	±12 dB/10 kHz
Talkover	-12 dB, manual
Power supply	~ 230 V/50 Hz/12 VA
Dimensions	482 x 47 x 208 mm, 1 RS
Weight	2.8 kg

ULM-164/SW

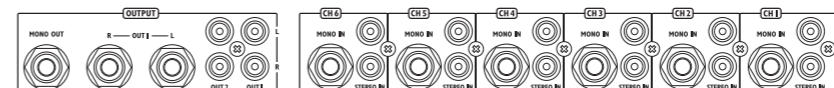
Order No. 0202240



Universal line mixer, 6 channels.

- 6 stereo inputs/mono inputs
- 2 stereo outputs, independent of each other (master 1 via RCA and 6.3 mm jack), 1 mono output
- 3-way equalizer
- LED VU meter, switchable for both outputs
- Clip LED for each channel
- Balance controls with centre click for the stereo input channels

- Extended muting function
- Adjustable headphone output
- 482 mm (19") rack installation, 1 RU



Model	ULM-164/SW
Line input	150 mV/50 kΩ (stereo), 6 x RCA L/R 150 mV/25 kΩ (mono), 6 x 6.3 mm jack, unbal.
Master output	1 V/600 Ω (stereo), 2 x RCA (1 x 6.3 mm) L/R 2 V/600 Ω (mono), 1 x 6.3 mm jack
Headphones	≥ 8 Ω, 1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	0.05%
S/N ratio	69 dB, unweighted
Equalizer bass	±12 dB/80 Hz
Equalizer midrange	±12 dB/1 kHz
Equalizer treble	±12 dB/10 kHz
Power supply	~ 230 V/50 Hz/10 VA
Dimensions	482 x 48 x 175 mm, 1 RS
Weight	2.3 kg

MMX-30

Order No. 0252540

Compact 3-channel stereo line mixer

- 3 stereo input channels with one level control each
- 1 stereo master output, adjustable
- RCA connections for input channels and output
- 2 stereo headphone outputs, common control
- Signal/peak LEDs for the input channels and peak LED for the output

Model	MMX-30
Line input	40 mV, 3 x RCA L/R
Master output	4 V, 1 x RCA L/R
Headphones	2 x 10 mW/2 x 32 Ω, 2 x 6.3 mm jack
Frequency range	5-30,000 Hz
THD	< 0.1%
S/N ratio	> 66 dB
Power supply	via encl. plug-in power supply
Dimensions	147 x 50 x 119 mm
Weight	693 g



MMX-31

Order No. 0244450

Microphone mixer

- Quick method to mix three microphones to one microphone input and still allow for individual level adjustment.
- 3 mono microphone channels (6.3 mm jack) with separate level control each
- 1 mono output via 3 m connection cable with 6.3 mm plug

- Passive operation, no power supply required
- Can also be used as an extension for microphone inputs which are difficult to access
- Dimensions: 127 x 48 x 72 mm
- Weight: 210 g

Model	MMX-31
Mic input	3 x 6.3 mm mono jack
Master output	1 x 6.3 mm mono jack
Power supply	not required
Dimensions	127x48x72 mm
Weight	210 g



MMX-11USB

Order No. 0202840



2-channel miniature audio mixer, with 3 inputs and USB interface.

- Integrated USB audio interface
- Full-duplex USB port (allows for simultaneous recording and reproduction)
- 1 mono input channel with gain control, 2-way equalizer and pan pot, peak LED
- 1 stereo input channel with level control, 2-way equalizer and balance control
- Tape record/play connections

Model	MMX-11USB
Mic input	0.5 mV, 1 x 3-pole XLR
Line input	150 mV (stereo), 6.3 mm jack
Tape (play)	2 mV (mono), 6.3 mm jack
Master output	420 mV, 1 x RCA L/R
Booth output	6 V max., 1 x 3.5 mm jack
Tape (rec)	6 V max., 1 x 3.5 mm jack
Frequency range	1 x RCA L/R
THD	20-20,000 Hz
S/N ratio	< 0.05%
Equalizer bass	81 dB, weighted
Equalizer treble	±15 dB/80 Hz
Power supply	±15 dB/12 kHz
Dimensions	via USB interface
Weight	or via encl. power supply
	102 x 45 x 140 mm
	430 g



MPX-20USB

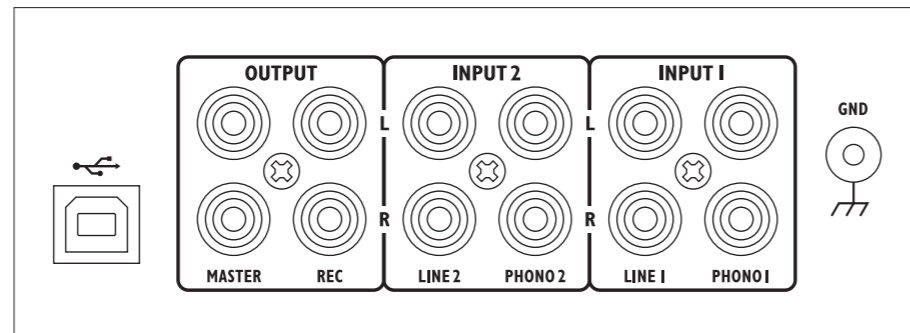
Order No. 0202860



3-channel stereo DJ mixer, with USB interface. Plug and mix!

- Integrated USB audio interface
- Full-duplex USB port (allows for simultaneous recording and reproduction)
- 1 microphone input channel
- 2 stereo input channels, switchable line/phono and USB/line/phono
- 1 stereo output channel (master)

Model	MPX-20USB
Mic input	1 mV, 1 x 6.3 mm jack
Line input	450 mV, 2 x RCA L/R
Phono input	9 mV, 2 x RCA L/R
Master output	1 V, 1 x RCA L/R
Record output	1 V, 1 x RCA L/R
Headphones	≥ 8 Ω, 1 x 3.5 mm jack,
	1 x 6.3 mm jack
Frequency range	20-20,000 Hz
THD	0.1%
S/N ratio	63 dB, unweighted
Power supply	− 5 V/500 mA
Dimensions	via USB interface
Weight	150 x 70 x 140 mm
	700 g



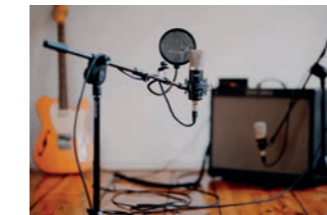
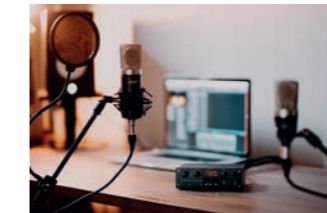
SONGWRITER-1

Order No. 0230654

Recording bundle for songwriters, consisting of:

- 1 x large diaphragm condenser microphone ECMS-70 for vocal recordings
- 1 x compact large diaphragm condenser microphone ECMS-60 for recording e.g. acoustic guitars
- 1 x microphone pop filter KM-23956
- 2 x microphone floor stand MS-20/SW
- 2 x XLR cable MECN-600/SW, 6 m, NEUTRIK connectors
- 1 x 2-channel USB recording interface MX-210

For additional specifications, please refer to individual items.



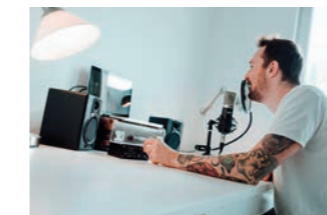
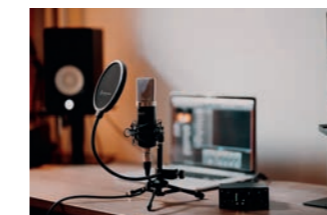
PODCASTER-1

Order No. 0230653

Recording bundle for podcasters, consisting of:

- 1 x large diaphragm condenser microphone ECMS-70
- 1 x microphone pop filter KM-23956
- 1 x desktop microphone stand MS-12
- 1 x XLR cable MECN-200/SW, 2 m, NEUTRIK connectors
- 1 x 1-channel USB recording interface MX-110

For additional specifications, please refer to individual items.



DIB-100

Order No. 0241140

DI box

- 3-fold attenuation switch (0/-20/-40 dB)
- Ground lift switch
- Instrument feed-through output
- Wideband balancing transformer
- Robust metal housing

Model	DIB-100
Frequency range	15-30,000 Hz
Input impedance	50 kΩ
Output impedance	600 Ω (bal.), 50 kΩ (unbal.)
Gain	0/-20/-40 dB
Transmission ratio	10:1
Dimensions	74 x 45 x 130 mm
Weight	560 g
Inputs	1 x 6.3 mm jack, unbal.
Outputs	1 x 6.3 mm jack, unbal., par. out XLR, bal.



DIB-102

Order No. 0247060

2-channel DI box

- 3-fold attenuation switch (0/-20/-40 dB) for each channel
- 1 ground lift switch for each channel
- 1 instrument feed-through output for each channel
- Wideband balancing transformer
- Robust metal housing

Model	DIB-102
Frequency range	15-30,000 Hz
Input impedance	50 kΩ
Output impedance	600 Ω, XLR 50 kΩ, jack
Transmission ratio	10:1
Dimensions	148 x 50 x 130 mm
Weight	755 g
Inputs	2 x 6.3 mm jack, unbal.
Outputs	2 x 6.3 mm jack, unbal., par. out 2 x XLR, bal.



LTR-102

Order No. 0241800

Line transformer

- Balanced and unbalanced inputs and outputs
- Output impedance can be switched from 1:1/600 Ω to 2:1/150 Ω
- Phase can be switched from 0° to 180°
- Ground lift switch
- Wideband balancing transformer
- Robust metal housing

Model	LTR-102
Frequency range	20-25,000 Hz
Input signal	5 V
Input impedance	600 Ω
Output impedance	600 Ω/150 Ω
Transmission ratio	1:1/2:1
Dimensions	120 x 44 x 90 mm
Weight	545 g
Inputs	1 x 6.3 mm jack, bal. 1 x XLR, bal.
Outputs	1 x 6.3 mm jack, bal. 1 x XLR, bal.



FGA-202

Order No. 0251660

Professional 2-channel line transformer

- Prevents hum loops
- 2 inputs via balanced comb. jacks XLR/6.3 mm (600 Ω)
- 2 galvanically isolated XLR outputs (600 Ω) with ground lift switch
- Frequency range: 20-20,000 Hz

- Robust metal housing with very good shielding qualities, suitable for stage applications
- Dimensions: 125 x 55 x 75 mm
- Weight: 650 g



FGA-102

Order No. 0251650

Professional stereo line transformer

- Prevents hum loops
- Galvanically isolated inputs and outputs
- Gold-plated RCA connections (600 Ω)
- Frequency range: 20-20,000 Hz
- Robust metal housing with very good shielding qualities, suitable for stage applications

- Dimensions: 125 x 55 x 75 mm
- Weight: 650 g



LS-280/SW

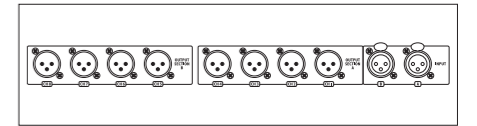
Order No. 0202220



8-way line splitter

- 2 separate inputs
- Selectable operating modes:
 - 1. input A to 4 outputs,
 - input B to 4 outputs
 - 2. input A to 8 outputs
- XLR connection and gain control for each input and output

Model	LS-280/SW
Frequency range	20-20,000 Hz
Input signal	100 mV
Input impedance	15 kΩ
Output signal	1 V
Output impedance	100 Ω
S/N ratio	70 dB, unweighted
THD	< 0.03%
Power supply	– 230 V/50 Hz/10 VA
Dimensions	482 x 48 x 205 mm, 1 RU
Weight	2.3 kg



LMS-808

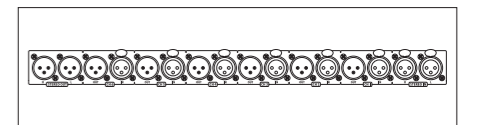
Order No. 0202160



Microphone line mixer/line splitter

- Multifunctional device with three selectable operating modes:
 - Mixer operation
 - Line splitter operation
 - Level matching amplifier operation
- 6 mono input channels, each with switchable 12 V phantom power, pan pot, signal/clip LED
- 2 mono line input channels, each with level control and signal/clip LED

Model	LMS-808
Mic input	1 mV/6.6 kΩ (mic), 6 x XLR, bal.
Line input	250 mV/30 kΩ, 2 x XLR, bal. 100 mV/40 kΩ, 6 x XLR, bal.
Master output	1 V/200 Ω, 6 x XLR, bal. (mono), 1 x XLR L/R, bal. (stereo)
Frequency range	10-30,000 Hz
THD	0.02%
S/N ratio	81 dB, weighted
Crosstalk	-63 dB
Power supply	– 230 V/50 Hz/10 VA
Dimensions	482 x 48 x 200 mm, 1 RU
Weight	2.9 kg



LSP-102

Order No. 0251680

2-channel 3-way line splitter, (2 inputs/6 outputs), e.g. for connecting one mixer to several amplifiers.

- 1 balanced XLR input (600 Ω) for each channel
- 2 galvanically isolated, balanced XLR outputs (600 Ω) with ground lift switch for each channel
- 1 balanced XLR direct output for each channel
- Frequency range: 20-20,000 Hz

Model	LSP-102
Frequency range	20-20,000 Hz
Input impedance	600 Ω
Output impedance	600 Ω
Dimensions	160 x 55 x 105 mm
Weight	909 g
Inputs	2 x XLR, bal.
Outputs	6 x XLR, bal.

- Dimensions: 160 x 55 x 105 mm



LC-31

Order No. 0251670

2-channel 2-way line combiner, (4 inputs/2 outputs), e.g. for connecting 2 mixers to one amplifier.

- 1 galvanically isolated, balanced XLR input (600 Ω) with ground lift switch for each channel
- 1 balanced XLR direct input for each channel
- 1 balanced XLR output (600 Ω) for each channel
- Frequency range: 20-20,000 Hz

Model	LC-31
Frequency range	20-20,000 Hz
Input impedance	600 Ω
Output impedance	600 Ω
Dimensions	160 x 55 x 85 mm
Weight	761 g
Inputs	4 x XLR, bal.
Outputs	2 x XLR, bal.

- Dimensions: 160 x 55 x 85 mm



MC-31

Order No. 0251690

3-way microphone combiner, (3 inputs/1 output), for connecting 3 microphones to e.g. one microphone input of a mixer.

- Balanced XLR connections (200 Ω)
- Frequency range: 20-20,000 Hz

Model	MC-31
Frequency range	20-20,000 Hz
Input impedance	200 Ω
Dimensions	125 x 55 x 75 mm
Weight	563 g
Inputs	3 x XLR, bal.
Outputs	1 x XLR, bal.



MPS-1

Order No. 0243790

Microphone splitter, for distributing one input signal to two outputs, e.g. monitor mixer and main mixer.

- Galvanically isolated output with ground lift switch and feed-through output

Model	MPS-1
Frequency range	35-30,000 Hz
Input impedance	600 Ω
Output impedance	600 Ω
Dimensions	100 x 80 x 40 mm
Weight	310 g
Inputs	1 x XLR, bal.
Outputs	2 x XLR, bal.



MPA-202

Order No. 0320710

2-channel low-noise microphone preamplifier

- 2 microphone inputs, XLR, bal.
- Gain control, 11 steps, 20-70 dB
- 2 level controls ± 5 dB
- LED green/red for indicating operation/peak
- Phantom power +12 V, can be activated as required
- Microphone phase, switchable for each channel
- Low cut: 15-240 Hz, continuously adjustable
- Subsonic filter 15 Hz, 18 dB/oct.
- 2 line outputs, XLR bal.
- 2 line outputs, RCA unbal.

Model	MPA-202
Frequency range	20-20,000 Hz
Input sensitivity	0.16-150 mV switchable
Input impedance	4.4 k Ω (bal.) 2.2 k Ω (unbal.)
Output signal	1-14 V (line, bal.) 1-7 V (line, stereo)
Output impedance	100 Ω /600 Ω
Gain	15-75 dB
Crossover frequency	15-240 Hz, 6 dB/oct. (low cut), 15 Hz, 18 dB/oct. (subsonic)
Low cut	100 Hz
S/N ratio	> 68 dB, unweighted > 87 dB, weighted
THD	< 0.01%
Power supply	via encl. plug-in power supply
Dimensions	116 x 55 x 135 mm
Weight	980 g



MPA-102

Order No. 0320650

1-channel low-noise microphone preamplifier, for mains operation or battery operation.

- 1 microphone input, XLR, bal.
- Gain control, 11 steps, 20-70 dB
- LED green/red for indicating operation/peak
- Phantom power +24 V, can be activated as required
- Switchable microphone phase
- Low cut: 100 Hz, high cut: 12 kHz, 12 dB/oct., switchable
- 1 preamplifier output
- 1 stereo line input, 1 stereo line output
- Level control and pan pot for mixing the microphone signal to the stereo line channel

Model	MPA-102
Frequency range	20-20,000 Hz
Input sensitivity	0.3-150 mV, switchable
Input impedance	2.2 k Ω (mic) 10 k Ω (line)
Output signal	1-12 V (line, bal.) 1-6 V (line, stereo)
Output impedance	100 Ω
Gain	20-70 dB (mic), 0 db (line)
Crossover frequency	100 Hz/-3 dB, 12 dB/oct. (low cut) 12 kHz/-3 dB, 12 dB/oct. (high cut)
Low cut	100 Hz
S/N ratio	> 66 dB, unweighted (mic) 80 dB, unweighted (line)
THD	< 0.01%
Power supply	via encl. plug-in power supply; alternatively 3 x 9 V battery
Dimensions	116 x 55 x 125 mm
Weight	978 g



SPR-6

Order No. 0210640

Stereo phono anti-distortion preamplifier acc. to RIAA, for connecting a turntable to the aux input or line input of a hi-fi system, a mixer or an amplifier, etc. Low hum effect due to metal case and supplied plug-in power supply.

Model	SPR-6
Frequency range	20-20,000 Hz
Input signal	5 mV/47 k Ω
Output signal	450 mV/100 k Ω
S/N ratio	> 50 dB
Power supply	via encl. plug-in power supply
Dimensions	67 x 37 x 121 mm
Weight	200 g



MPR-1

Order No. 0212010

1-channel microphone preamplifier, with switchable phantom power.

- 1 microphone input, XLR, bal. or 6.3 mm jack, bal.
- Gain control: up to 50 dB max.
- Clip LED
- 30 V phantom power, can be activated as required

Model	MPR-1
Frequency range	10-30,000 Hz
Input signal	3.5 mV (XLR, bal.) 16 mV (jack, bal.)
Input impedance	10 k Ω
Output signal	1 V
Gain	50 dB (with bal. connection) 44 dB (with unbal. connection)
S/N ratio	58 dB
THD	0.1%
Power supply	via encl. plug-in power supply
Dimensions	113 x 92 x 40 mm
Weight	345 g



MPR-6

Order No. 0210680

Microphone preamplifier, for connecting up to 2 microphones to a line input of a hi-fi system, an amplifier or a mixer.

- Stereo or 2 x mono
- Wide frequency range
- Black metal case
- Supplied with plug-in power supply

Model	MPR-6
Frequency range	5-40,000 Hz
Input signal	2 mV/1 V output
Input impedance	10 k Ω
Output signal	max. 3.2 V/47 k Ω
Gain	53 dB
S/N ratio	63 dB
THD	0.05%
Power supply	via encl. plug-in power supply
Dimensions	67 x 37 x 121 mm
Weight	215 g



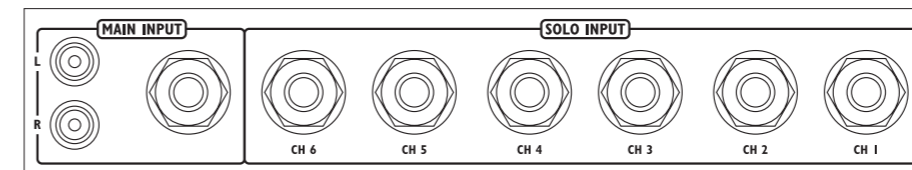
PPA-100/SW

Order No. 0244190



Stereo headphone amplifier

- 6 separate headphone amplifiers, each with 1 level control and 1 signal/clip LED as well as main/solo switching
- 1 input (solo) per amplifier, switchable to common main input (main)
- Main input with low/high selector switch for matching the input signal
- Inputs: solo (stereo) 6 x 6.3 mm jack, main (stereo) 2 x 6.3 mm jack, 2 x RCA L/R
- Outputs: headphones (stereo) 6 x 6.3 mm jack



Model	PPA-100/SW
Frequency range	5-30,000 Hz
Input signal	250 mV/50 k Ω (solo) 250 mV/50 k Ω (main low) 2.2 V/60 k Ω (main high)
Output signal	2 x 16 mW/8 Ω 2 x 45 mW/32 Ω 2 x 75 mW/600 Ω
S/N ratio	> 60 dB
Channel separation	50 dB
THD	0.02%
Power supply	~ 230 V/50 Hz/11 VA
Dimensions	482 x 44 x 185 mm, 1 RS
Weight	2.3 kg

PPA-4

Order No. 0243770

Stereo headphone amplifier

- 4 separate headphone amplifiers in one housing
- 1 level control each per amplifier
- 6.3 mm stereo input
- 6.3 mm stereo outputs

Model	PPA-4
Frequency range	20-20,000 Hz
Input signal	300 mV
Output signal	2 x 16 mW/8 Ω , 2 x 35 mW/32 Ω , 2 x 15 mW/600 Ω (per headphone)
S/N ratio	64 dB
THD	0.1%
Power supply	via encl. plug-in power supply
Dimensions	117 x 93 x 40 mm
Weight	560 g
Inputs	1 x 6.3 mm jack
Outputs	4 x 6.3 mm jack



HPR-6

Order No. 0244210

Efficient stereo headphone amplifier, can also be used as a small power amplifier for 4-8 Ω speaker systems

- Robust metal housing
- Stereo RCA input
- 6.3 mm stereo output
- Volume control and balance control

Model	HPR-6
Frequency range	19-40,000 Hz
Input signal	110 mV-4 V
Output signal	2 x 525 mW/2 x 1,500 mW/4 Ω , 2 x 330 mW/2 x 750 mW/8 Ω , 2 x 114 mW/2 x 200 mW/32 Ω
S/N ratio	69 dB
THD	1%
Power supply	via encl. plug-in power supply
Weight	288 g
Inputs	2 x RCA L/R
Outputs	1 x 6.3 mm jack



SONIDO

Order No. 1000599



Bluetooth stereo headset

- For universal use
- Bluetooth version V5.0, 2.4 GHz, operating range: 10 m
- Wired operation also possible
- Built-in microphone
- Closed system
- Padded ear cushions and headrest
- Accessories include a transport case, 1.3 m connection cable (2 x 3.5 mm plug), 0.6 m charging cable (USB Type-A to micro USB)

Model	SONIDO
Transmission method	Bluetooth
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	108 dB/mW
Power supply	built-in 3.7 V rech. Li-ion polymer battery 400 mAh charging time: approx. 2 hours Standby time: approx. 60 hours Call time: approx. 15 hours Music time: approx. 15 hours
Cable	1.3 m connection cable (3.5 mm/3.5 mm) 0.6 m charging cable (USB Type-A to micro USB)
Weight w/o cable	240 g



BH-009

Order No. 0221280

Professional stereo headphones with dynamic boom microphone

- Perfectly closed system for ambient noise suppression
- Excellent sound characteristics, very comfortable to wear
- Flexible microphone boom, folding, continuously adjustable
- Padded ear cushions and headband
- 2 m cable with single-sided cable inlet and 3.5 mm plugs, supplied with two 6.3 mm adapters

Model	BH-009
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	100 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	250 Ω
Headphone sensitivity	117 dB/mW
Transmission range, mic.	120-6,000 Hz
Nominal impedance, microphone	600 Ω
Microphone system	dynamic, cardioid
Microphone sensitivity	1.8 mV/Pa
Cable	2 m, single-sided cable inlet
Plug	2 x 3.5 mm plug
Adapter	2 x 6.3 mm plug
Weight w/o cable	375 g



HP-535

Order No. 0220790

Professional studio monitor headphones

- Excellent sound quality, very comfortable to wear
- Semi-open system, over-ear
- Padded ear cushions and headrest
- 2 m cable with single-sided cable inlet
- 3.5 mm plug with 6.3 mm adapter

Model	HP-535
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	1 W
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	64 Ω
Headphone sensitivity	104 dB/mW
Cable	2 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Adapter	6.3 mm plug, gold-plated
Weight w/o cable	380 g



MDH-6300

Order No. 0221090

Mono hand-held DJ headphone

- Powerful neodymium magnet driver Ø 50 mm
- Closed system
- Movable earpiece
- Padded ear cushion
- Ergonomic padded handle
- Removable helix connection cable (1.3-2.8 m) with latchable XLR inline jack and right-angle 6.3 mm stereo plug
- Supplied with transport bag

Model	MDH-6300
Headphone driver	neodymium, Ø 50 mm
Type of transducer	dynamic
Max. input power	3,500 mW
Transmission range, headphones	10-22,000 Hz
Nominal impedance, headphones	46 Ω
Headphone sensitivity	96 dB/mW
Cable	1.3-2.8 m
Plug	6.3 mm plug
Weight w/o cable	152 g



BH-010USB

Order No. 1000175



Professional stereo headphones with electret boom microphone

- For operating directly at a PC or laptop
- No driver installation required, device will be identified automatically
- Closed system
- Excellent sound characteristics, very comfortable to wear
- Flexible microphone boom, folding, continuously adjustable
- Padded ear cushions
- 2 m cable with single-sided cable inlet, volume control at the cable and USB port

Model	BH-010USB
Headphone driver	Ø 30 mm
Type of transducer	dynamic
Max. input power	100 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	105 dB/mW
Transmission range, mic.	50-15,000 Hz
Microphone system	electret, omnidirectional
Microphone sensitivity	13 mV/Pa
Power supply	= 5 V via USB interface
Cable	2 m, single-sided cable inlet
Plug	1 x USB Type-A
Weight w/o cable	61 g



HPM-535

Order No. 0220210

Professional stereo headphones with electret boom microphone

- Excellent sound characteristics, comfortable to wear
- Semi-open system, over-ear
- Compatible with sound cards
- Ideally suited for gaming
- Adjustable microphone boom
- Padded ear cushions and headband
- 2 m cable with single-sided cable inlet and 3.5 mm plugs

Model	HPM-535
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	1,000 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	64 Ω
Headphone sensitivity	104 dB/mW
Transmission range, mic.	100-15,000 Hz
Nominal impedance, microphone	680 Ω
Microphone system	electret
Microphone sensitivity	6.3 mV/Pa/1 kHz
Power supply	= 1.5-10 V
Cable	2 m, single-sided cable inlet
Plug	2 x 3.5 mm plug, gold-plated
Weight w/o cable	308 g



HP-565

Order No. 0221300

Professional studio headphones

- Excellent sound quality and a rich bass reproduction
- Semi-open system, over-ear
- Padded ear cushions and headband, comfortable to wear
- 3 m cable with single-sided cable inlet
- 3.5 mm plug with 6.3 mm adapter

Model	HP-565
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	500 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	104 dB/mW
Cable	3 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Adapter	6.3 mm plug, gold-plated
Weight w/o cable	350 g



MD-5000DR

Order No. 0220860

Stereo headphones, for applications with drums and in the studio.

- Perfectly closed system for suppressing ambient noise
- Good bass reproduction
- Extra secure fit
- Padded ear cushions
- 3 m helix cable with single-sided cable inlet
- Right-angle 3.5 mm plug, gold-plated, with thread for a secure connection to supplied 6.3 mm adapter

Model	MD-5000DR
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	500 mW
Transmission range, headphones	10-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	105 dB/mW
Cable	3 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Adapter	6.3 mm plug, gold-plated
Weight w/o cable	365 g



MD-302

Order No. 0221160

Stereo headphones

- Extra lightweight version
- Turnable earpieces
- 1.2 m cable with single-sided cable inlet and 3.5 mm plug

Model	MD-302
Headphone driver	neodymium, Ø 30 mm
Type of transducer	dynamic
Max. input power	50 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	110 dB/mW
Cable	1.2 m, single-sided cable inlet
Plug	3.5 mm plug, nickel-plated
Weight w/o cable	50 g



MD-460

Order No. 0221310

Design stereo headphones

- Excellent acoustic performance
- Open system
- Turnable folding earpieces
- Padded ear cushions and headband
- 1.2 m connection cable with textile sleeve, removable, with gold-plated 3.5 mm plug

Model	MD-460
Headphone driver	Ø 30 mm
Type of transducer	dynamic
Max. input power	100 mW
Transmission range, headphones	10-20,000 Hz
Nominal impedance, headphones	32 Ω
Cable	1.2 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Weight w/o cable	120 g



MD-390

Order No. 0220100

Stereo headphones

- For general applications
- Closed system
- Padded ear cushions and headband
- 1.5 m cable with single-sided cable inlet
- Gold-plated 3.5 mm plug with 6.3 mm adapter

Model	MD-390
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	100 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Cable	1.5 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Adapter	6.3 mm plug, gold-plated
Weight w/o cable	160 g



MD-260

Order No. 0220760

Stereo headphones

- Comfortable and secure fit due to earband/neckband
- Removable foam ear cushions
- Single-sided cable inlet
- 1.5 m connection cable with a 3.5 mm stereo plug

Model	MD-260
Headphone driver	Ø 30 mm
Type of transducer	dynamic
Max. input power	80 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	101 dB/mW
Cable	1.5 m, single-sided cable inlet
Plug	3.5 mm plug, stereo
Weight w/o cable	35 g



MD-306

Order No. 0221070

Stereo headphones

- Extra lightweight version
- Turnable earpieces
- Padded ear cushions
- 1.2 m cable with single-sided cable inlet and 3.5 mm plug

Model	MD-306
Headphone driver	neodymium, Ø 30 mm
Type of transducer	dynamic
Max. input power	50 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	110 dB/mW
Cable	1.2 m, single-sided cable inlet
Plug	3.5 mm plug
Weight w/o cable	50 g



MD-480

Order No. 0221190

Stereo headphones

- For general applications
- Compact design
- Closed system
- Padded ear cushions and headband
- 1.2 m cable with single-sided cable inlet
- 3.5 mm plug with 6.3 mm adapter

Model	MD-480
Headphone driver	neodymium, Ø 38 mm
Type of transducer	dynamic
Max. input power	200 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	95 dB/mW
Cable	1-2 m, single-sided cable inlet
Plug	3.5 mm plug
Adapter	6.3 mm plug
Weight w/o cable	150 g



MD-39

Order No. 0220070

Stereo headphones

- Well-balanced sound
- Universal headphones
- Extra lightweight version
- 1.2 m cable with 3.5 mm stereo plug

Model	MD-39
Headphone driver	ferrite
Type of transducer	dynamic
Max. input power	100 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Cable	1.1 m
Plug	3.5 mm plug
Weight w/o cable	28 g



MD-22

Order No. 0221270

Stereo headphones

- Ideally suited for guided tours, coaches, hospitals or hotels
- 1.5 m cable with 3.5 mm stereo plug
- Individually packed in a plastic bag

Model	MD-22
Headphone driver	ferrite, Ø 27 mm
Type of transducer	dynamic
Max. input power	20 mW
Transmission range, headphones	100-18,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	102 dB/mW
Cable	1.5 m
Plug	3.5 mm plug
Weight w/o cable	25 g



MFE-212

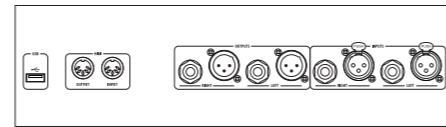
Order No. 0254520



Stereo DSP feedback controller

- Prevents acoustic feedback appearing in PA systems
- 12 steep-edged precision notch filters for each stereo channel
- Editable filter parameters (supplied with software)
- 4 factory presets, 16 user presets
- Mono operation or 2-channel operation possible
- AD/DA resolution: 24 bits
- 45 dB attenuation (with gradual reduction in variable mode)
- Optionally continuous signal monitoring (auto notch) or manual setting of the required filters (manual notch)
- Backlit 2 x 20 dot matrix display
- Adjustable input level and output level

Model	MFE-212
Frequency range	20-20,000 Hz
Input signal	2.2 V max.
Output signal	2.2 V max.
S/N ratio	> 90 dB
THD	< 0.01%
Power supply	~ 230 V/50 Hz/20 VA
Dimensions	482 x 44 x 193 mm, 1 RU
Weight	2 kg



- Bypass function
- Clip LED
- Balanced inputs and outputs: XLR and 6.3 mm jack
- USB port (Type-A)
- MIDI input and output
- 482 mm (19") rack installation, 1 RU

MEQ-115/SW

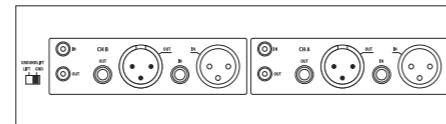
Order No. 0244350



Graphic equalizer

- 2-channel version, 2 x 15 frequency controls in 2/3 octave steps
- Switchable control range $\pm 6/\pm 12$ dB
- Peak LED
- Switchable low cut filter
- Master volume control
- Bypass switch and ground lift switch
- Frequency controls with centre click
- Inputs and outputs each via 2 x XLR and 2 x 6.3 mm jack

Model	MEQ-115/SW
Frequency range	20-20,000 Hz
Control range	switchable $\pm 6/\pm 12$ dB
Control frequencies	2 x 25/40/63/100/160/250/400/630 Hz/ 1/1.6/2.5/4/6.3/10/16 kHz
Input signal	0.775 V
Input impedance	50 k Ω
Output signal	0.775 V
Output impedance	600 Ω
Low cut	20 Hz/-3 dB
S/N ratio	66 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/10 VA
Dimensions	482 x 44.5 x 165 mm, 1 RU
Weight	2.5 kg



DEQ-230

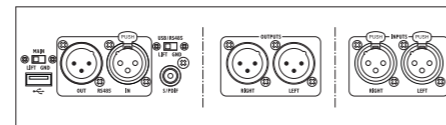
Order No. 0254500



Digital parametric/graphic 2 x 30 band stereo equalizer

- 2 inputs and 2 outputs (XLR, balanced)
- S/PDIF digital input, stereo
- Dynamic range: > 110 dB
- User-defined routing of the inputs to the outputs
- Graphic user interface, PC editing software
- 24 user presets can be stored
- Remote control via USB, RS-485
- Dot matrix display with 2 x 20 characters
- VU meter with 7 LEDs for each channel, optionally for level display or limiter

Model	DEQ-230
Frequency range	20-20,000 Hz
S/N ratio	> 110 dB
THD	< 0.005%
Power supply	~ 230 V/50 Hz/42 VA
Dimensions	482 x 44 x 230 mm, 1 RU
Weight	2.84 kg



VU-800PRO

Order No. 1000804



Audio dB display

- 3-colour LED display with 40 LEDs
- Extremely accurate display due to processor-controlled LED driver
- Switchable display mode (dot display or bar graph display)
- Input level control for each channel
- 482 mm (19") rack installation, 1 RU
- Power is provided via enclosed power supply

Model	VU-800PRO
Display	-45 dB to +12 dB
Power supply	via encl. power supply
Dimensions	482 x 45 x 50 mm
Weight	695 g
Power supply	1 x low-voltage jack
Input, stereo	1 x RCA L/R
Output, stereo	1 x RCA L/R



CD-230USB

Order No. 0212990



Dual DJ CD and MP3 player, with USB 2.0 interface and SD/MMC card slot.

- USB flash drives can be connected directly
- For SD/MMC cards up to 32 GB (FAT16/FAT32), available at option
- Anti-shock system
- Seamless loop
- Supports ID3 tags (track display)
- Safe operation due to illuminated rubber buttons
- Pitch control: $\pm 4/\pm 8/\pm 16\%$
- Pitch bending
- Search for file/track
- Search function via jog dial
- Scratch function
- Repeat function (repeat 1, repeat all)
- 20 tracks can be programmed
- Smallest search step: 1 frame
- Switchable display of the running time of one track as well as the remaining running time of one or all tracks

Model	CD-230USB
Description	Dual DJ CD and MP3 player
Media	CD, MP3, USB, SD, MMC
Frequency range	20-20,000 Hz
THD	< 0.1%
Channel separation	> 80 dB
Dynamic range	> 90 dB
S/N ratio	> 80 dB
Output, analogue	2 V
Power supply	~ 230 V/50 Hz/30 VA
Dim., player mech.	482 x 90 x 270 mm, 2 RU
Dim., control panel	482 x 90 x 100 mm, 2 RU
Weight	5.9 kg
Connections	2 x RCA L/R, 2 x cable, 13-pole mini DIN, length: 1 m (control connection)
Packing dimensions (W x H x L)	0.45 x 0.16 x 0.51 m
Gross weight	6.96 kg



- Bar graph display
- Quick start (automatic cue)
- 482 mm (19") rack installation
- Audio CD/CD-R/MP3 CD

CD-196USB

Order No. 0212890



Professional DJ CD and MP3 player, with USB 2.0 interface, anti-shock system and remote control.

- USB storage media can be connected directly (e.g. USB hard disk, USB flash drive)
- Supports multi-partitions FAT16/FAT32, NTFS, HFS+
- Folder navigation
- ID3 tag analysis
- Supports playlists
- Pitch control: $\pm 8/\pm 16/\pm 100\%$
- Pitch bending
- Master tempo
- Search function via jog dial
- Scratch function
- Title programming for 99 tracks
- Smallest search step: 1 frame
- Automatic or manual beat counter, switchable
- Switchable display of the running time of one track as well as the remaining running time of one or all tracks
- Bar graph display
- Quick start (automatic cue)

Model	CD-196USB
Media	CD, MP3, USB
Frequency range	20-20,000 Hz
THD	< 0.1%
Channel separation	> 75 dB
Dynamic range	> 80 dB
S/N ratio	> 75 dB
Output, analogue	2 V
Output, digital, U _{pp}	0.5 V (S/PDIF)
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	482 x 90 x 270 mm, 2 RU
Weight	4.4 kg
Connections	1 x RCA L/R, 1 x RCA (S/PDIF), 1 x 3.5 mm jack (fader start)
Packing dimensions (W x H x L)	0.54 x 0.22 x 0.34 m
Gross weight	6.16 kg



- Fader start
- Digital output, coaxial
- 482 mm (19") rack installation
- Supplied with infrared remote control
- Audio CD/CD-R/MP3 CD

DJP-104USB

Order No. 0212160



Stereo hi-fi turntable with USB port and integrated phono preamplifier

- USB port (Type-B) for high-quality and convenient digitalisation of analogue vinyl records via PC, adjustable USB audio level
- Stereo output via RCA jacks, switchable line/phono
- Belt drive with quick start system
- Magnet system
- 2 speeds
- Pitch control: $\pm 16\%$
- Metal pick-up arm and plastic turntable platter with felt slipmat
- Smoked acrylic glass cover, removable

Model	DJP-104USB
Turntable platter	Ø 298 mm, plastic
Speeds	33 $\frac{1}{3}$ /45 rpm
Pitch control	$\pm 16\%$
Starting torque	0.3 kg/cm
Starting time	< 0.8 s
Wow and flutter	< 0.15%
Rumble	-40 dB unweighted, -55 dB weighted
Power supply	~ 230 V/50 Hz/15 VA
Dimensions	430 x 115 x 350 mm
Weight	2.9 kg
Outputs	1 x RCA L/R USB Type-B jack



STA-700

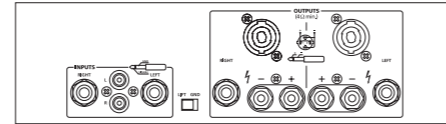
Order No. 0244120



Stereo PA amplifier, for general applications.

- Fan cooling
- 2 level controls
- Ground lift switch
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- 1 LED per channel for indicating overload (clip)

Model	STA-700
Peak output power	800 W
Power rating at 4 Ω	2 x 275 W
Power rating at 8 Ω	2 x 200 W
Inputs	0.85 V/55 kΩ
Frequency range	10-20,000 Hz
S/N ratio	85 dB
Crosstalk attenuation	> 43 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/1,100 VA
Dimensions	482 x 98 x 296 mm, 2 RU
Weight	9.4 kg



STA-500

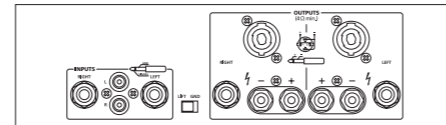
Order No. 0243970



Stereo PA amplifier, for general applications.

- Fan cooling
- 2 level controls
- Ground lift switch
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- 1 LED per channel for indicating overload (clip)

Model	STA-500
Peak output power	600 W
Power rating at 4 Ω	2 x 200 W
Power rating at 8 Ω	2 x 125 W
Inputs	1.3 V/55 kΩ
Frequency range	10-20,000 Hz
S/N ratio	64 dB
Crosstalk attenuation	> 55 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/730 VA
Dimensions	482 x 95 x 300 mm, 2 RU
Weight	6.6 kg



STA-235

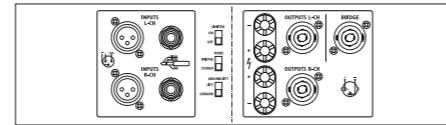
Order No. 0253210



Stereo PA amplifier, with integrated limiter.

- LCD for indicating temperature, operating mode, power
- 2 operating modes can be selected (stereo or bridged)
- Limiter function can be activated as required
- Temperature-controlled fans
- 2 level controls
- Ground lift function
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit and overheating
- Each channel with LEDs for indicating overload, level and signal

Model	STA-235
Peak output power	1,400 W
Power rating at 4 Ω	2 x 500 W
Power rating at 8 Ω	2 x 400 W
Power rating with 8 Ω bridged operation	1 x 1,000 W
Inputs	1.2 V/10 kΩ
Frequency range	10-50,000 Hz
S/N ratio	> 80 dB
Crosstalk attenuation	> 50 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/2,000 VA
Dimensions	482 x 100 x 330 mm, 2 RU
Weight	11.5 kg



STA-225

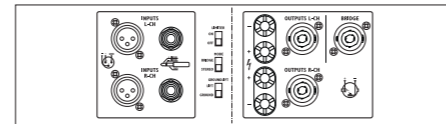
Order No. 0253340



Stereo PA amplifier, 1,000 W, with integrated limiter.

- LCD for indicating temperature, operating mode, power
- 2 operating modes can be selected (stereo or bridged)
- Limiter function can be activated as required
- Temperature-controlled fan
- 2 level controls
- Ground lift function
- Speaker switch-on delay
- Protective circuit with LED indication for protection against short circuit and overheating
- Each channel with LEDs for indicating limiter, level and signal

Model	STA-225
Peak output power	1,000 W
Power rating at 4 Ω	2 x 350 W
Power rating at 8 Ω	2 x 250 W
Power rating with 8 Ω bridged operation	1 x 700 W
Inputs	1.3 V/10 kΩ
Frequency range	10-50,000 Hz
S/N ratio	> 80 dB
Crosstalk attenuation	> 50 dB
THD	< 0.1%
Power supply	~ 230 V/50 Hz/1,500 VA
Dimensions	482 x 100 x 330 mm, 2 RU
Weight	10.3 kg



STA-2000D

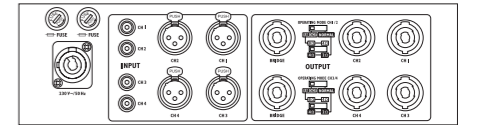
Order No. 0255220



4-channel class D PA amplifier, 2,400 W

- Class D concept with power amplifier modules from PASCAL
- Excellent acoustic performance
- Extra wide dynamic range with very low THD
- Excellent pulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- 2 or 4 channels in bridged mode
- 100 V line technique possible in bridged operation
- Silent operation due to temperature-controlled fans

Model	STA-2000D
Peak output power	2,400 W
Power rating at 4 Ω	4 x 500 W
Power rating at 8 Ω	4 x 280 W
Power rating with 4 Ω bridged operation	2 x 1,000 W
Power rating with 8 Ω bridged operation	2 x 1,000 W
Inputs	1 V/10 kΩ (XLR, bal), 1 V/5 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 119 dBA
THD	< 0.05%
Power supply	~ 85-265 V/50 Hz/2,320 VA
Dimensions	482 x 89 x 335 mm, 2 RU
Weight	6.4 kg



STA-1000D

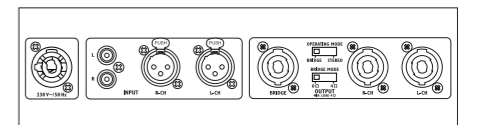
Order No. 0255210



Stereo class D PA amplifier, 1,200 W

- Class D concept with power amplifier modules from PASCAL
- Excellent acoustic performance
- Extra wide dynamic range with very low THD
- Excellent pulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode power supply

Model	STA-1000D
Peak output power	1,200 W
Power rating at 4 Ω	2 x 500 W
Power rating at 8 Ω	2 x 280 W
Power rating with 4 Ω bridged operation	1 x 1,000 W
Power rating with 8 Ω bridged operation	1 x 1,000 W
Inputs	1 V/10 kΩ (XLR, bal), 1 V/5 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 119 dBA
THD	< 0.05%
Power supply	~ 230 V/50 Hz/1,160 VA
Dimensions	482 x 89 x 335 mm, 2 RU
Weight	5 kg



STA-800D

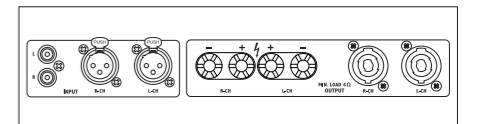
Order No. 0255200



Stereo class D PA amplifier

- Class D concept with power amplifier modules from HYPEX
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode power supply
- Energy-efficient concept due to a high efficiency
- High power reserves due to the application of two switch-mode power supplies

Model	STA-800D
Peak output power	1,000 W
Power rating at 4 Ω	2 x 400 W
Power rating at 8 Ω	2 x 210 W
Inputs	1 V/10 kΩ (XLR, bal), 1 V/4.7 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 110 dBA
THD	< 0.004%
Power supply	~ 230 V/50 Hz/920 VA
Dimensions	482 x 52 x 298 mm, 1 RU
Weight	4 kg



STA-400D

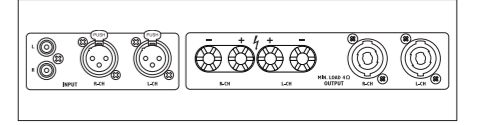
Order No. 0255190



Stereo class D PA amplifier

- Class D concept with power amplifier modules from HYPEX
- Silent operation due to temperature-controlled fans
- Energy-efficient concept due to a high efficiency
- Powerful bass reproduction due to large buffer capacitors (high power reserves)
- 2 level controls, NEUTRIK SPEAKON connections

Model	STA-400D
Peak output power	700 W
Power rating at 4 Ω	2 x 270 W
Power rating at 8 Ω	2 x 180 W
Inputs	1 V/10 kΩ (XLR, bal), 1 V/4.7 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 110 dBA
THD	< 0.02%
Power supply	~ 230 V/50 Hz/600 VA
Dimensions	482 x 52 x 277 mm, 1 RU
Weight	3.5 kg



STA-300D

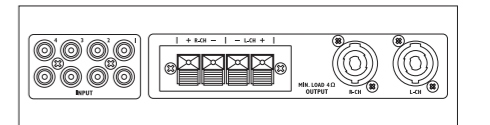
Order No. 0257330



Stereo class D PA amplifier

- 2 operating modes can be selected (stereo or bridged)
- Limiter function can be activated as required
- 2 level controls, temperature-controlled fan
- Protective circuit with LED indication for protection against short circuit, overheating and DC voltage overlay at the outputs
- Each channel with LEDs for indicating overload (clip) and signal

Model	STA-300D
Peak output power	350 W
Power rating at 4 Ω	2 x 150 W
Power rating at 8 Ω	2 x 100 W
Power rating with 8 Ω bridged operation	1 x 300 W
Inputs	1 V/12 kΩ
Frequency range	20-20,000 Hz
S/N ratio	> 96 dB
Crosstalk attenuation	> 70 dB
THD	< 0.05%
Power supply	~ 230 V/50 Hz/510 VA
Dimensions	482 x 52 x 290 mm, 1 RU
Weight	3.7 kg



Amplifiers Stereo Mixing Amplifiers

SA-200

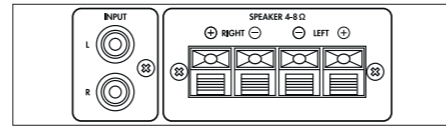
Order No. 0257510



Universal stereo amplifier, 100 W

- Silent operation due to fanless cooling concept
- Stereo line input
- Speaker connection via terminal strip
- LEDs for indicating overload (clip)
- Volume control
- 482 mm (19") rack installation, 1 RU, with supplied mounting brackets

Model	SA-200
Peak output power	2 x 100 W
Power rating	100 W
Power rating at 4 Ω	2 x 50 W
Power rating at 8 Ω	2 x 30 W
Inputs	420 mV/6 kΩ
Frequency range	20-20,000 Hz
S/N ratio	> 83 dB
Power supply	~ 230 V/50 Hz/210 VA
Dimensions	431 x 55 x 255 mm
Weight	4.4 kg



SA-250/SW

Order No. 0253390



SA-230/SW

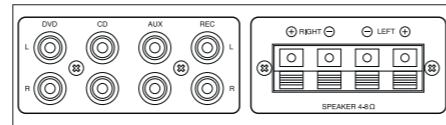
Order No. 0250740



Universal stereo mixing amplifier

- Silent operation due to fanless cooling concept
- 3 stereo line inputs
- 3 mono microphone inputs on the front panel, each with gain control
- Adjustable digital echo for the microphone inputs
- Karaoke feature
- Vocal partner feature

Model	SA-250/SW	SA-230/SW
Peak output power	2 x 100 W	2 x 50 W
Power rating	100 W	50 W
Power rating at 4 Ω	2 x 50 W	2 x 25 W
Power rating at 8 Ω	2 x 30 W	2 x 20 W
Inputs	175 mV/8 kΩ (line) 2.5 mV/3.5 kΩ (mic)	175 mV/8 kΩ (line) 2.5 mV/3.5 kΩ (mic)
Frequency range	20-20,000 Hz	20-20,000 Hz
Equalizer bass	± 10 dB	± 10 dB
Equalizer treble	± 10 dB	± 10 dB
S/N ratio	62 dB	62 dB
Power supply	~ 230 V/50 Hz/210 VA	~ 230 V/50 Hz/150 VA
Dimensions	432 x 45 x 275 mm	432 x 45 x 275 mm
Weight	4.5 kg	3.8 kg



SA-130DMP

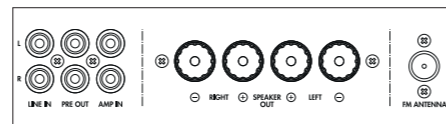
Order No. 0257760



Stereo amplifier, 140 W with integrated MP3 player, Bluetooth receiver, FM radio and USB interface.

- Bluetooth receiver for wireless connection of laptops, smartphones or tablet PCs
- Adjustable microphone input and aux input on the front panel
- Adjustable stereo line input
- Insert facility, e.g. for effect units, equalizers, feedback controllers
- 2-way tone control
- Adjustable master output

Model	SA-130DMP
Power rating	140 W
Power rating at 4 Ω	2 x 70 W
Inputs	480 mV/20 kΩ (line) 1.3 mV/500 Ω (mic) 190 mV/10 kΩ (aux) 580 mV/22 kΩ (amp in)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB/100 Hz
Equalizer treble	± 10 dB/10 kHz
S/N ratio	90 dB
THD	0.1%
Power supply	~ 230 V/50 Hz/350 VA
Dimensions	482 x 44 x 245 mm
Weight	4.9 kg



SA-440/SW

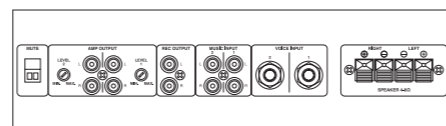
Order No. 0253880



Universal stereo mixing amplifier

- Silent operation due to fanless cooling concept
- 2 stereo line inputs
- 2 balanced microphone inputs
- Parallel stereo line input on the front panel
- 3-way equalizer for each microphone input
- Common 2-way tone control for the two line inputs
- Muting via optional momentary push-button/switch
- 2 adjustable stereo master outputs
- Master output level can be preadjusted via trimming potentiometers
- Adjustable headphone output
- Stereo record output
- LEDs for indicating overload (clip)

Model	SA-440/SW
Peak output power	2 x 100 W
Power rating	100 W
Power rating at 4 Ω	2 x 50 W
Power rating at 8 Ω	2 x 30 W
Inputs	125 mV/10 kΩ (line) 1.3 mV/600 Ω (mic)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB/30 Hz
Equalizer midrange	± 12 dB/1 kHz (voice only)
Equalizer treble	± 12 dB/12 kHz
S/N ratio	> 60 dB
Power supply	230 V~/50 Hz/220 VA
Dimensions	432 x 52 x 275 mm, 1 RS
Weight	3.5 kg



SA-100

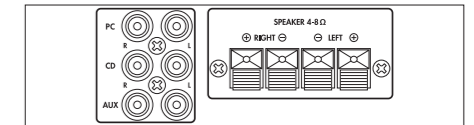
Order No. 0254120



Compact universal stereo amplifier, 50 W

- Silent operation due to fanless cooling concept
- Additional 3.5 mm connection with switchable sensitivity on the front panel
- USB port on the front panel for power supply and for charging external devices
- Audio source selector switch
- Controls for volume, bass and treble
- 6.3 mm headphone output
- Robust metal housing

Model	SA-100
Peak output power	2 x 50 W
Power rating	50 W
Power rating at 4 Ω	2 x 25 W
Power rating at 8 Ω	2 x 20 W
Inputs	140 mV/46 kΩ (PC, CD, aux) 140 mV/12 kΩ, 25 mV/32 kΩ (player)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB
Equalizer treble	± 12 dB
S/N ratio	> 70 dB
Power supply	~ 230 V/50 Hz/150 VA
Dimensions	212 x 56 x 250 mm
Weight	2.6 kg



SA-50

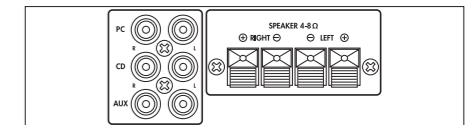
Order No. 0254620



Compact universal stereo amplifier, 25 W

- Silent operation due to fanless cooling concept
- Additional 3.5 mm connection with switchable sensitivity on the front panel
- Audio source selector switch
- Controls for volume, bass and treble
- 6.3 mm headphone output
- Robust metal housing

Model	SA-50
Peak output power	2 x 25 W
Power rating	25 W
Power rating at 4 Ω	2 x 12.5 W
Power rating at 8 Ω	2 x 10 W
Inputs	115 mV/12 kΩ (PC), 115 mV/12 kΩ (CD), 115 mV/12 kΩ (aux), 115 mV/12 kΩ (player, high), 20 mV/32 kΩ (player, low)
Frequency range	20-20,000 Hz
Equalizer bass	± 12 dB
Equalizer treble	± 12 dB
S/N ratio	> 65 dB
Power supply	~ 230 V/50 Hz/50 VA
Dimensions	212 x 56 x 200 mm
Weight	1.8 kg



SA-160BT

Order No. 0256010



Mini stereo amplifier, 2 x 30 W, with Bluetooth interface, NFC and remote control.

- Integrated hi-fi audio amplifier
- For speakers with an impedance of 8 Ω
- Volume control with integrated source selector function, LED indicator
- Near Field Communication (NFC)
- Gold-plated speaker terminals
- 1 stereo input via RCA jacks L/R
- 1 line output via 3.5 mm stereo jack
- Fixed antenna
- Metal housing
- Power is provided via enclosed power supply

Model	SA-160BT
Peak output power	2 x 60 W
Power rating	60 W
Inputs	660 mV/10 kΩ
Frequency range	20-20,000 Hz
S/N ratio	> 99 dBA
Power supply	via encl. power supply
Standby current	100 mA
Dimensions	150 x 49 x 122 mm
Weight	610 g
Connections	1 x RCA L/R (line), 4 x spring-load. speaker term. (speakers)



STA-850D

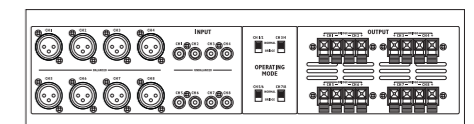
Order No. 0252360



8-channel class D amplifier

- Silent operation due to fanless cooling concept
- 8 Ω bridged operation possible
- Mute function for each channel
- 8 level controls
- 1 LED per channel for indicating overload (clip)
- Protected against short circuit

Model	STA-850D
Peak output power	600 W
Power rating	400 W
Power rating at 4 Ω	8 x 50 W
Power rating at 8 Ω	8 x 30 W
Power rating with 8 Ω bridged operation	4 x 100 W
Inputs	1 V/20 kΩ unbal. 550 mV/20 kΩ bal.
Frequency range	10-20,000 Hz
Crosstalk attenuation	> 45 dB
Power supply	~ 230 V/50 Hz/600 VA
Dimensions	483 x 90 x 330 mm, 2 RS
Weight	10.5 kg



MIRA-1/1

Order No. 1000200



Active column PA speaker system class D, 1,100 W

- Compact full range system with subwoofer and a full range column module
- 6 x 7.6 cm (3") midrange speaker + 2 x 2.5 cm (1") tweeter in a bass-reflex cabinet
- 1 x 30 cm (12") subwoofer in a separate bass-reflex cabinet
- 2-channel class D amplifier system with a power rating of 400 + 150 W
- 1 line input, XLR, balanced
- RCA input L/R, unbalanced
- 1 parallel line out, XLR, balanced
- Selectable crossover frequency: 30-200 Hz
- Separate volume control for subwoofer and column module
- Robust wooden cabinet with protective metal grille
- Scope of accessories includes connection cable for full range module
- Including intermediate piece with M20 thread

Model	MIRA-1/1
Total output power	1,100 W
Power rating (RMS)	550 W (400+150) bass: 400 W mid-high range: 150 W
Frequency range	35-20,000 Hz
THD	< 0.06% (sub) < 0.07% (sat)
Input signal	400 mV/21 kΩ (line), 400 mV/12 kΩ (aux)
SPL	98 dB/W/m
Beam angle	hor.: 120°, vert.: 30°
Power supply	~ 230 V/50 Hz/760 VA
Dimensions	110 x 720 x 145 mm (column module) 345 x 520 x 450 mm (subwoofer)
Weight	30 kg
Inputs	1 x XLR (line) 1 x RCA (L/R)
Outputs	1 x XLR, par. out



ENANO-1

Order No. 1000653



Portable Bluetooth speaker

- Speaker driver: 5 W/4 Ω
- Powerful sound
- Bluetooth V.5.0, operating range: up to 10 m
- Waterproof, IPX7
- FM radio
- Supports hands-free equipment
- Built-in rech. battery, 1,200 mAh
- Operating time at maximum volume: up to 6 hours
- SD card up to 32 GB, AUX connection, TWS function
- Supplied with 12 cm charging cable, USB Type-A to micro USB

Model	ENANO-1
THD	≤ 5%
S/N ratio	≥ 88 dB
Transmitting power	-
Bluetooth	V.5.0
Operating range	≤ 10 m
Profiles	A2DP, AVRCP, HSP
Codecs	MP3, WAV
Power supply	= 5 V/500 mA (USB), = 3.7 V/1,200 mAh (rech. lithium batt.)
Dimensions	135 x 64 x 72 mm
Weight	353 g
Connections	3.5 mm jack (AUX), micro USB (power supply), micro SD card slot



CALDERA-T6

Order No. 1000295



Pair of active studio and recording speakers, 2 x 100 W

- 2-way active circuit per speaker system with separate power amplifiers for subwoofer and tweeter (bi-amping)
- Amplifier power rating bass: 30 W, treble: 25 W
- Maximum output power total: 100 W
- Bass-reflex MDF cabinet, laminated surface
- 16 cm bass-midrange speaker with green polypropylene cone and 25 mm soft dome tweeter
- Each speaker system is equipped with a balanced XLR input and jack input (6.3 mm), all with gain control
- Volume control
- Ideally suited as studio monitor speakers for recording, audio/video presentations and home hi-fi

Model	CALDERA-T6
Total output power	100 W
Power rating (RMS)	55 W
Frequency range	50-20,000 Hz
Input signal	1,500 mV/32 kΩ (bal.)
SPL	89 dB/W/m
Beam angle	H: 120°/V: 100°
Power supply	~ 230 V/50 Hz/110 VA
Dimensions	210 x 320 x 255 mm
Weight	7 kg
Inputs	1 x XLR, bal., IN (each speaker system) 1 x 6.3 mm jack, bal., IN (each speaker system)



CALDERA-B10

Order No. 1000303



Active subwoofer for hi-fi and recording, 400 W

- Vivid and powerful active subwoofer as an addition to active speakers CALDERA-T6 but also to any other compact speaker in the field of hi-fi, home cinema and home recording
- Volume control for level adjustment
- Adjustable crossover frequency: 90-180 Hz
- High-quality bass-reflex MDF cabinet (black wood veneer finish)
- 25 cm (10") high-performance bass speaker
- Balanced inputs A and B via XLR or 6.3 mm jack
- Parallel balanced outputs A and B for top speakers with switchable high-pass filter
- Parallel output XLR or 6.3 mm jack for connecting an additional subwoofer

Model	CALDERA-B10
Total output power	400 W
Power rating (RMS)	300 W
Frequency range	25-180 Hz
Input signal	300 mV/11 kΩ (bal.)
SPL	88 dB/W/m
Power supply	~ 230 V/50 Hz/560 VA
Dimensions	350 x 375 x 430 mm
Weight	16 kg
Inputs	2 x combo XLR/6.3 mm jack, bal.
Outputs	2 x line OUT XLR 2 x line OUT 6.3 mm jack 1 x SUB OUT XLR 1 x SUB OUT 6.3 mm jack



WAVE-15A

Order No. 0259012



Active full range speaker system, 400 W

- Compact 15/2 full range bass-reflex system with plastic cabinet
- 38 cm (15") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot
- Integrated 5-band equalizer for tone control
- Bluetooth receiver
- Balanced mic input via XLR jack or 6.3 mm jack
- Line input via RCA jack or XLR jack
- 2-way tone control for treble and bass

Model	WAVE-15A
Transmission technology	wireless/cable
Total output power	400 W
Power rating (RMS)	250 W
Frequency range	50-20,000 Hz
Input signal	250 mV/7 kΩ (line, XLR, bal), 150 mV/16 kΩ (line, RCA), 9.5 mV/0.8 kΩ (mic, XLR, bal), 9.5 mV/0.8 kΩ (mic, 6.3 mm jack)
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Power supply	~ 230 V/50 Hz/410 VA
Dimensions	460 x 710 x 370 mm
Weight	18.6 kg



WAVE-12A

Order No. 0259011



Active full range speaker system, 350 W

- Compact 12/2 full range bass-reflex system with plastic cabinet
- 30 cm (12") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot
- Integrated 5-band equalizer for tone control
- Bluetooth receiver
- Balanced mic input via XLR jack or 6.3 mm jack
- Line input via RCA jack or XLR jack
- 2-way tone control for treble and bass

Model	WAVE-12A
Transmission technology	wireless/cable
Total output power	350 W
Power rating (RMS)	200 W
Frequency range	55-20,000 Hz
Input signal	250 mV/7 kΩ (line, XLR, bal), 150 mV/16 kΩ (line, RCA), 9.5 mV/0.8 kΩ (mic, XLR, bal), 9.5 mV/0.8 kΩ (mic, 6.3 mm jack)
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Power supply	~ 230 V/50 Hz/370 VA
Dimensions	390 x 610 x 340 mm
Weight	16 kg



WAVE-10A

Order No. 0259009



Active full range speaker system, 300 W

- Compact 10/2 full range bass-reflex system with plastic cabinet
- 25 cm (10") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot
- Bluetooth receiver
- Balanced mic input via XLR jack or 6.3 mm jack
- Line input via RCA jack or XLR jack
- 2-way tone control for treble and bass

Model	WAVE-10A
Transmission technology	wireless/cable
Total output power	300 W
Power rating (RMS)	150 W
Frequency range	60-20,000 Hz
Input signal	250 mV/7 kΩ (line, XLR, bal), 150 mV/16 kΩ (line, RCA), 9.5 mV/0.8 kΩ (mic, XLR, bal), 9.5 mV/0.8 kΩ (mic, 6.3 mm jack)
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Power supply	~ 230 V/50 Hz/270 VA
Dimensions	300 x 510 x 250 mm
Weight	9.4 kg



WAVE-08A

Order No. 0259008



Active full range speaker system, 150 W

- Compact 8/2 full range bass-reflex system with plastic cabinet
- 20 cm (8") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot
- Bluetooth receiver
- Balanced mic input via XLR jack or 6.3 mm jack
- Line input via RCA jack or XLR jack
- 2-way tone control for treble and bass

Model	WAVE-08A
Transmission technology	wireless/cable
Total output power	150 W
Power rating (RMS)	80 W
Frequency range	65-20,000 Hz
Input signal	250 mV/7 kΩ (line, XLR, bal), 150 mV/16 kΩ (line, RCA), 9.5 mV/0.8 kΩ (mic, XLR, bal), 9.5 mV/0.8 kΩ (mic, 6.3 mm jack)
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Power supply	~ 230 V/50 Hz/160 VA
Dimensions	260 x 420 x 210 mm
Weight	7.3 kg



WAVE-15P

Order No. 0259016



Passive full range speaker system, 500 W, 8 Ω

- Full range bass-reflex system
- Robust plastic cabinet
- 38 cm (15") bass speaker with steel basket
- 25 mm (1") horn tweeter, 34 mm (1 3/8") voice coil diameter
- PTC tweeter protection
- M8 threaded inserts at the top and bottom
- 2 x SPEAKER jack, in/out
- Stand sleeve

Model	WAVE-15P
Total power rating	500 W
Power rating (RMS)	250 W
Impedance	8 Ω
Frequency range	55-20,000 Hz
SPL	96 dB/W/m
Beam angle	H: 90°/V: 60°
Dimensions	460 x 710 x 370 mm
Weight	15.8 kg



WAVE-12P

Order No. 0259015



Passive full range speaker system, 400 W, 8 Ω

- Full range bass-reflex system
- Robust plastic cabinet
- 30 cm (12") bass speaker with steel basket
- 25 mm (1") horn tweeter, 34 mm (1 3/8") voice coil diameter
- PTC tweeter protection
- M8 threaded inserts at the top and bottom
- 2 x SPEAKER jack, in/out
- Stand sleeve

Model	WAVE-12P
Total power rating	400 W
Power rating (RMS)	200 W
Impedance	8 Ω
Frequency range	55-20,000 Hz
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Dimensions	390 x 610 x 340 mm
Weight	13.6 kg



WAVE-10P

Order No. 0259014



Passive full range speaker system, 300 W, 8 Ω

- Full range bass-reflex system
- Robust plastic cabinet
- 25 cm (10") bass speaker with steel basket
- 25 mm (1") horn tweeter, 25 mm (1") voice coil diameter
- PTC tweeter protection
- M8 threaded inserts at the top and bottom
- 2 x SPEAKER jack, in/out
- Stand sleeve

Model	WAVE-10P
Total power rating	300 W
Power rating (RMS)	150 W
Impedance	8 Ω
Frequency range	60-20,000 Hz
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Dimensions	300 x 510 x 210 mm
Weight	7.5 kg



WAVE-08P

Order No. 0259013



Passive full range speaker system, 200 W, 8 Ω

- Full range bass-reflex system
- Robust plastic cabinet
- 20 cm (8") bass speaker with steel basket
- 25 mm (1") horn tweeter, 25 mm (1") voice coil diameter
- PTC tweeter protection
- M8 threaded inserts at the top and bottom
- 2 x SPEAKER jack, in/out
- Stand sleeve

Model	WAVE-08P
Total power rating	200 W
Power rating (RMS)	100 W
Impedance	8 Ω
Frequency range	65-20,000 Hz
SPL	95 dB/W/m
Beam angle	H: 90°/V: 60°
Dimensions	260 x 420 x 210 mm
Weight	5.8 kg



DRIVE-15A

Order No. 1000195

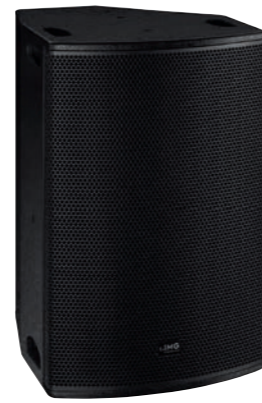


Professional active DSP speaker system with 2-channel amplifier, 360 W

- Compact 15/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- 38 cm (15") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- M8 threaded inserts, stand sleeve

Model	DRIVE-15A
Total output power	750 W
Power rating (RMS)	DSP-controlled 360 W (300 + 60) bass: 300 W treble: 60 W
Frequency range	40-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/550 VA
Dimensions	415 x 695 x 455 mm
Weight	22.04 kg
Inputs	1 x comb. XLR/6.3 mm: line 1 x XLR: line

- Volume control
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out
- Power and clip indicator



DRIVE-12A

Order No. 1000194

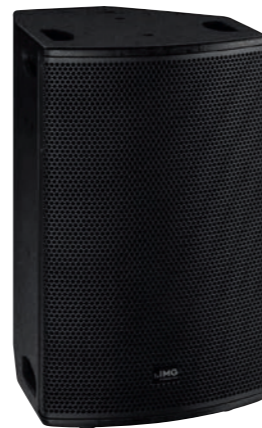


Professional active DSP speaker system with 2-channel amplifier, 350 W

- Compact 12/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- M8 threaded inserts, stand sleeve

Model	DRIVE-12A
Total output power	700 W
Power rating (RMS)	DSP-controlled 350 W (290 + 60) bass: 290 W treble: 60 W
Frequency range	45-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/510 VA
Dimensions	360 x 620 x 380 mm
Weight	17.04 kg

- 30 cm (12") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out



DRIVE-10A

Order No. 1000193

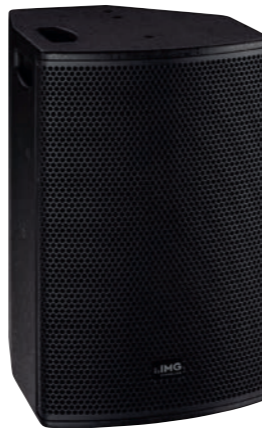


Professional active DSP speaker system with 2-channel amplifier, 200 W

- Compact 10/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- M8 threaded inserts, stand sleeve

Model	DRIVE-10A
Total output power	400 W
Power rating (RMS)	DSP-controlled 200 W (140 + 60) bass: 140 W treble: 60 W
Frequency range	55-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/350 VA
Dimensions	320 x 530 x 350 mm
Weight	12.18 kg

- 25 cm (10") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out



DRIVE-08A

Order No. 1000192



Professional active DSP speaker system with 2-channel amplifier, 200 W

- Compact 8/2 full range system with cabinet made of birch plywood
- DSP-controlled 2-channel amplifier (bass: class D, tweeter: class A/B)
- 3 selectable presets
 - FLAT (linear adjustment)
 - MUSIC (slightly raised bass and treble)
 - LOW CUT (with high-pass filter for application with an additional subwoofer)
- M8 threaded inserts, stand sleeve

Model	DRIVE-08A
Total output power	400 W
Power rating (RMS)	DSP-controlled 200 W (140 + 60) bass: 140 W treble: 60 W
Frequency range	60-20,000 Hz
Input signal	790 mV/40 kΩ (line, bal.)
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Power supply	~ 230 V/50 Hz/250 VA
Dimensions	270 x 460 x 290 mm
Weight	9.4 kg

- 20 cm (8") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- 2 x balanced line in
- 2 x parallel line out
- 1 x balanced mix out



DRIVE-15P

Order No. 1000199



Professional PA speaker system, 700 W

- Compact 15/2 full range system with cabinet made of birch plywood
- 38 cm (15") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-15P
Total power rating	700 W
Power rating (RMS)	350 W
Impedance	8 Ω
Frequency range	40-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	415 x 695 x 455 mm
Weight	20.72 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



DRIVE-12P

Order No. 1000197



Professional PA speaker system, 500 W

- Compact 12/2 full range system with cabinet made of birch plywood
- 30 cm (12") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-12P
Total power rating	500 W
Power rating (RMS)	250 W
Impedance	8 Ω
Frequency range	45-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	360 x 620 x 380 mm
Weight	15.9 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



DRIVE-10P

Order No. 1000198



Professional PA speaker system, 400 W

- Compact 10/2 full range system with cabinet made of birch plywood
- 25 cm (10") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-10P
Total power rating	400 W
Power rating (RMS)	200 W
Impedance	8 Ω
Frequency range	55-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	320 x 530 x 350 mm
Weight	11.25 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



DRIVE-08P

Order No. 1000196



Professional PA speaker system, 300 W

- Compact 8/2 full range system with cabinet made of birch plywood
- 20 cm (8") bass speaker and 25 mm (1") horn tweeter, can be turned by 90°
- Protective circuit for the tweeter
- Excellent sound characteristics
- High-quality coating and neat workmanship
- Multi-purpose positioning and installation options
- Horn tweeter with consistent radiation pattern

Model	DRIVE-08P
Total power rating	300 W
Power rating (RMS)	150 W
Impedance	8 Ω
Frequency range	60-20,000 Hz
SPL	98 dB/W/m
Beam angle	H: 90°/V: 60°, horn can be turned
Dimensions	270 x 460 x 290 mm
Weight	8.43 kg

- M8 threaded inserts for suspended installation
- 2 x SPEAKER terminal IN/OUT
- Stand sleeve



PAK-415

Order No. 0256050



Active power PA speaker system with 2-channel amplifier, 700 W

- Compact 15/2 full range system with robust plastic cabinet
- Modern amplifier system (bass: class D, tweeter: class A/B)
- Sound pressure at nominal power: 124 dB
- 4 selectable presets: normal, hi-fi, DJ and voice, switchable high-pass filter: 75 Hz
- MIC/LINE input, switchable

Model	PAK-415
Total output power	700 W
Power rating (RMS)	450 (350+100) W
Frequency range	40-20,000 Hz
Input signal	260 mV/10 kΩ (line), 2 mV/10 kΩ (mic)
SPL	98 dB/W/m
Power supply	~ 230 V/50 Hz/550 VA
Dimensions	455 x 740 x 390 mm
Weight	18.7 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR, par. out



PAK-412

Order No. 0256040



Active power PA speaker system with 2-channel amplifier, 700 W

- Compact 12/2 full range system with robust plastic cabinet
- Modern amplifier system (bass: class D, tweeter: class A/B)
- Sound pressure at nominal power: 124 dB
- 4 selectable presets: normal, hi-fi, DJ and voice, switchable high-pass filter: 75 Hz
- Mic/line input, switchable

Model	PAK-412
Total output power	700 W
Power rating (RMS)	450 (350+100) W
Frequency range	40-20,000 Hz
Input signal	260 mV/10 kΩ (line), 2 mV/10 kΩ (mic)
SPL	98 dB/W/m
Power supply	~ 230 V/50 Hz/500 VA
Dimensions	405 x 670 x 340 mm
Weight	17.3 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR, par. out



PAK-410

Order No. 0256030



Active power PA speaker system with 2-channel amplifier, 500 W

- Compact 10/2 full range system with robust plastic cabinet
- Modern amplifier system (bass: class D, tweeter: class A/B)
- Sound pressure at nominal power: 121 dB
- 4 selectable presets: normal, hi-fi, DJ and voice, switchable high-pass filter: 75 Hz
- Mic/line input, switchable

Model	PAK-410
Total output power	500 W
Power rating (RMS)	300 (250+50) W
Frequency range	55-20,000 Hz
Input signal	260 mV/10 kΩ (line), 2 mV/10 kΩ (mic)
SPL	97 dB/W/m
Power supply	~ 230 V/50 Hz/400 VA
Dimensions	340 x 560 x 290 mm
Weight	12 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR, par. out



PAK-15DMP

Order No. 0255840



Active DJ and power speaker system, 200 W

- 15/2 full range bass-reflex system with plastic cabinet
- 38 cm (15") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot and FM radio
- Bluetooth receiver
- Infrared remote control
- Stand sleeve

Model	PAK-15DMP
Total output power	200 W
Power rating (RMS)	120 W
Frequency range	45-20,000 Hz
Input signal	600 mV/8 kΩ (line, XLR, bal.), 500 mV/8 kΩ (line, RCA/3.5 mm jack), 30 mV/1 kΩ (mic, XLR, bal.), 75 mV/2 kΩ (mic, 6.3 mm jack)
SPL	96 dB/W/m
Power supply	~ 230 V/50 Hz/220 VA
Dimensions	445 x 700 x 360 mm
Weight	13 kg
Inputs	XLR, RCA L/R or 3.5 mm jack (line), XLR or 6.3 mm jack (mic)
Outputs	XLR, bal. (mix out)



PAK-12DMP

Order No. 0255830



Active DJ and power speaker system, 180 W

- Compact 12/2 full range bass-reflex system with plastic cabinet
- 30 cm (12") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot and FM radio
- Bluetooth receiver
- Infrared remote control
- Stand sleeve

Model	PAK-12DMP
Total output power	180 W
Power rating (RMS)	90 W
Frequency range	50-20,000 Hz
Input signal	460 mV/8 kΩ (line, XLR, bal.), 500 mV/8 kΩ (line, RCA/3.5 mm jack), 12 mV/2 kΩ (mic, XLR, bal.), 30 mV/4 kΩ (mic, 6.3 mm jack)
SPL	94 dB/W/m
Power supply	~ 230 V/50 Hz/200 VA
Dimensions	370 x 590 x 290 mm
Weight	11.2 kg
Inputs	XLR, RCA L/R or 3.5 mm jack (line), XLR or 6.3 mm jack (mic)
Outputs	XLR, bal. (mix out)



PAK-10DMP

Order No. 0255820



Active DJ and power speaker system, 150 W

- Compact 10/2 full range bass-reflex system with plastic cabinet
- 25 cm (10") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot and FM radio
- Bluetooth receiver
- Infrared remote control
- Line input via RCA or 3.5 mm jack
- Stand sleeve

Model	PAK-10DMP
Total output power	150 W
Power rating (RMS)	80 W
Frequency range	55-20,000 Hz
Input signal	470 mV/10 kΩ (line, XLR, bal.), 1 V/20 kΩ (line, 6.3 mm jack), 500 mV/50 kΩ (line, RCA/3.5 mm jack), 25 mV/10 kΩ (mic, XLR, bal.), 65 mV/20 kΩ (mic, 6.3 mm jack)
SPL	93 dB/W/m
Power supply	~ 230 V/50 Hz/170 VA
Dimensions	320 x 490 x 250 mm
Weight	8 kg
Inputs	XLR or 6.3 mm jack (line) RCA L/R or 3.5 mm jack (line) XLR or 6.3 mm jack (mic)
Outputs	XLR, bal. (mix out)



PAK-8DMP

Order No. 0255850



Active DJ and power speaker system, 120 W

- Compact 8/2 full range bass-reflex system with plastic cabinet
- 20 cm (8") bass speaker and 25 mm (1") horn tweeter
- Integrated MP3 player with USB/SD slot and FM radio
- Bluetooth receiver
- Infrared remote control
- Line input via RCA or 3.5 mm jack
- Stand sleeve

Model	PAK-8DMP
Total output power	120 W
Power rating (RMS)	60 W
Frequency range	60-20,000 Hz
Input signal	300 mV/10 kΩ (line, XLR, bal.), 730 mV/20 kΩ (line, 6.3 mm jack), 450 mV/48 kΩ (line, RCA/3.5 mm jack), 20 mV/10 kΩ (mic, XLR, bal.), 50 mV/20 kΩ (mic, 6.3 mm jack)
SPL	93 dB/W/m
Power supply	~ 230 V/50 Hz/140 VA
Dimensions	240 x 390 x 200 mm
Weight	5.8 kg
Inputs	XLR or 6.3 mm jack (line) RCA L/R or 3.5 mm jack (line) XLR or 6.3 mm jack (mic)
Outputs	XLR, bal. (mix out)



PAB-515/BL

Order No. 0248250



Professional PA speaker system, 600 W, 8 Ω

- Full range system of high power capability and of very high efficiency
- Robust plastic cabinet
- 38 cm (15") bass speaker with diecast aluminium basket and coated cone
- 25 mm (1", 44 mm voice coil) horn tweeter
- Bass-reflex system
- High-quality crossover network
- Multi-purpose positioning and installation options
- M8 threaded inserts at the top and bottom
- 2 x NEUTRIK SPEAKON terminal, in/out
- Stand sleeve and ergonomic carrying handle

Model	PAB-515/BL
Total power rating	600 W
Power rating (RMS)	300 W
Impedance	8 Ω
Frequency range	45-18,500 Hz
SPL	102 dB/W/m
Dimensions	450 x 670 x 345 mm
Weight	23 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON par. out



PAB-512/BL

Order No. 0248240



Professional PA speaker system, 500 W, 8 Ω

- Full range system of high power capability and of very high efficiency
- Robust plastic cabinet
- 30 cm (12") bass speaker with diecast aluminium basket and coated cone
- 25 mm (1", 44 mm voice coil) horn tweeter
- Bass-reflex system
- High-quality crossover network
- Multi-purpose positioning and installation options
- M8 threaded inserts at the top and bottom
- 2 x NEUTRIK SPEAKON terminal, in/out
- Stand sleeve and ergonomic carrying handle

Model	PAB-512/BL
Total power rating	500 W
Power rating (RMS)	250 W
Impedance	8 Ω
Frequency range	55-18,500 Hz
SPL	102 dB/W/m
Dimensions	395 x 590 x 300 mm
Weight	18 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON, par. out



PAB-515BAG

Order No. 0251350

PAB-512BAG

Order No. 0251340

Protective covers for speaker systems

PAB-515BAG for professional speaker system

PAB-515/BL

PAB-512BAG for professional speaker system

PAB-512/BL

- Robust synthetic cloth on the outside with soft inner lining
- The cover can stay on during operation!
- Openings for cables, stand and handle; cover straps to be closed with hook and loop fastener or zip fastener
- Including plastic padding for the handle bar of the speaker system



FLAT-M8

Order No. 1000766



Active PA stage monitor speaker system, 300 W

- Flat and very compact full range system
- Fitted with a 20 cm (8") coaxial speaker with horn tweeter
- Class D amplifier system
- Sound pressure at nominal power: 121 dB
- Indication of protect, limiter, signal and power-on
- Volume control and 3-way tone control (bass, midrange and treble)
- Balanced line/mic input and feed-through output
- Unbalanced line input RCA L/R or 6.3 mm jack
- Switchable automatic power-off
- High-quality plywood cabinet with protective metal grille
- M10 threaded insert for stand adapter or mounting device

Model	FLAT-M8
Total output power	300 W
Power rating (RMS)	100 W
Frequency range	70-21,000 Hz
THD	-
S/N ratio	-
Input signal	180 mV/5,6 kΩ (line, bal.), 180 mV/5,6 kΩ (aux, RCA) 1.5 mV/1.2 kΩ (mic, bal.), 70 mV/4 kΩ (aux, 6.3 mm jack, asym.)
SPL	99 dB/W/m
Power supply	~ 230 V/50 Hz/100 VA
Dimensions	375 x 185 x 330 mm
Weight	7.3 kg
Inputs	1 x comb. XLR/6.3 mm (mic), 1 x comb. XLR/6.3 mm (line), 1 x RCA L/R, 1 x 6.3 mm stereo jack
Outputs	1 x XLR direct out



FLAT-M8BAG

Order No. 1000771

Transport and protective bag

- Suitable for active PA stage monitor speaker system FLAT-M8
- Black, partly padded nylon version with zip fastener
- Carrying handle, rubber feet and lateral cable bag



FLAT-M200

Order No. 0259876



Active PA stage monitor speaker system, 300 W

- Flat and very compact full range system
- Fitted with 4 x 10 cm (FaitalPRO, 4 x 4") full range speaker with neodymium magnets
- Class D amplifier system
- Sound pressure at nominal power: 122 dB
- Indication of signal and limiter
- Balanced line/mic input and feed-through output
- High-quality multiplex wooden cabinet with protective metal grille
- 2 x M10 and 2 x M6 threaded inserts for stand adapter or mounting device

Model	FLAT-M200
Total output power	300 W
Power rating (RMS)	200 W
Frequency range	70-20,000 Hz
Input signal	25 mV/28 kΩ (line, bal.), 6 mV/20 kΩ (mic, bal.)
SPL	98 dB/W/m
Power supply	~ 230 V/50 Hz/356 VA
Dimensions	320 x 150 x 250 mm
Weight	4,11 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR link out

- Volume control and tone control
- Supplied with clamp for mounting, e.g. onto a microphone stand



FLAT-M200BAG

Order No. 0179260

Transport and protective bag

- Suitable for active PA stage monitor speaker system FLAT-M200

- Black, partly padded nylon version with zip fastener
- Carrying handle, rubber feet and lateral cable bag



FLAT-M100

Order No. 0259590



Active PA stage monitor speaker system, 200 W

- Flat and very compact full range system
- Fitted with 2 x 10 cm (FaitalPRO, 2 x 4") full range speaker with neodymium magnets
- Class D amplifier system
- Sound pressure at nominal power: 116 dB
- Indication of signal and limiter
- Balanced line/mic input and feed-through output
- High-quality multiplex wooden cabinet with protective metal grille
- 2 x M10 and 2 x M6 threaded inserts for stand adapter or mounting device

Model	FLAT-M100
Total output power	200 W
Power rating (RMS)	100 W
Frequency range	90-20,000 Hz
Input signal	16 mV/28 kΩ (line, bal.), 5 mV/20 kΩ (mic, bal.)
SPL	97 dB/W/m
Power supply	~ 230 V/50 Hz/175 VA
Dimensions	265 x 120 x 192.5 mm
Weight	2,4 kg
Inputs	1 x comb. XLR/6.3 mm (line/mic)
Outputs	1 x XLR link out

- Volume control and tone control
- Supplied with clamp for mounting, e.g. onto a microphone stand



FLAT-M100BAG

Order No. 0179030

Transport and protective bag

- Suitable for active PA stage monitor speaker system FLAT-M100

- Black, partly padded nylon version with zip fastener
- Carrying handle, rubber feet and lateral cable bag



PAB-308M/SW

Order No. 0255100



Universal PA speaker system, 300 W, 8 Ω

- Compact 8/2 full range bass-reflex system
- 20 cm (8") coaxial speaker system with 25 mm (1", 44 mm voice coil) horn tweeter
- High-quality cabinet made of birch plywood with metal protective grille
- Multi-purpose positioning and installation options, especially as a floor monitor
- NEUTRIK SPEAKON terminal

Model	PAB-308M/SW
Total power rating	300 W
Power rating (RMS)	150 W
Impedance	8 Ω
Frequency range	80-20,000 Hz
SPL	96 dB/W/m
Dimensions	340 x 303 x 379 mm
Weight	10 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON, par. out

- Supplied with mounting bracket and integrated stand sleeve



PSUB-12AKA

Order No. 0254310



Active 2.1 PA subwoofer, 1,200 W

- Active bass-reflex subwoofer system with wooden cabinet
- Integrated 2.1. active module
- Power rating: SUB: 500 W, SAT: 2 x 150 W
- 30 cm (12") bass speaker of high power capability and long excursion
- Stereo line + mic input with gain control
- Adjustable crossover frequency: 80-250 Hz
- 2-way tone control for bass and treble, balance
- Integrated limiter, clipping display
- High-quality workmanship, incorporated carrying handles
- Metal front grille, stand sleeve, rubber feet

Model	PSUB-12AKA
Total output power	1,200 W
Power rating (RMS)	500 W (SUB), 2 x 150 W (SAT)
Frequency range	30-250 Hz
S/N ratio	> 74 dB
Input signal	880 mV-7 V (line) 30 mV (mic)
Power supply	~ 230 V/50 Hz/1,870 VA
Dimensions	460 x 380 x 455 mm
Weight	28 kg
Inputs	XLR L/R, bal. RCA L/R, unbal. 6.3 mm jack, unbal.
Outputs	RCA L/R NEUTRIK SPEAKON L/R (sat > 150 Hz)



PSUB-15AKA

Order No. 0254320



Active 2.1 PA subwoofer, 1,200 W

- Active bass-reflex subwoofer system with wooden cabinet
- Integrated 2.1 active module
- Power rating: SUB: 500 W, SAT: 2 x 150 W
- 38 cm (15") bass speaker of high power capability and long excursion
- Stereo line input and mic input with gain control
- Adjustable crossover frequency: 80-250 Hz
- 2-way tone control for bass and treble, balance
- Integrated limiter, clipping indication
- High-quality workmanship, integrated carrying handles
- Metal front grille, stand sleeve, rubber feet

Model	PSUB-15AKA
Total output power	1,200 W
Power rating (RMS)	500 W (SUB), 2 x 150 W (SAT)
Frequency range	30-250 Hz
S/N ratio	> 74 dB
Input signal	880 mV-7 V (line) 30 mV (mic)
Power supply	~ 230 V/50 Hz/1,870 VA
Dimensions	600 x 500 x 580 mm
Weight	44 kg
Inputs	XLR L/R, bal. RCA L/R, unbal. 6.3 mm jack, unbal.
Outputs	RCA L/R NEUTRIK SPEAKON L/R (sat: > 150 Hz)



PSUB-418AK

Order No. 0256060



Active power PA subwoofer, 1,000 W

- Compact and lightweight 46 cm (18") subwoofer with class D amplifier
- Cabinet made of birch plywood with stand sleeve, carrying handles and castors
- Bass-reflex system with sound pressure at nominal power: 127 dB
- Adjustable crossover frequency: 60-150 Hz, gain control, phase reversal switch
- Balanced inputs: comb. XLR/6.3 mm and parallel XLR outputs

Model	PSUB-418AK
Total output power	1,000 W
Power rating (RMS)	600 W
Frequency range	35-150 Hz
Input signal	1.5 V/55 kΩ
SPL	97 dB/W/m
Power supply	~ 230 V/50 Hz/840 VA
Dimensions	560 x 660 x 600 mm (w/o castors)
Weight	38 kg
Inputs	comb. XLR/6.3 mm input (L/R)
Outputs	XLR: par. out (L/R)



PSUB-18L

Order No. 0250420



Professional active subwoofer system, 800 W

- Professional high-performance subwoofer
- Band-pass cabinet with black textured coating
- Double ventilation
- 46 cm (18") bass speaker of long excursion
- High-power amplifier section with integrated limiter
- Fixed subsonic filter (25 Hz), gain control and variable active low-pass filter
- Phase reversal switch as well as various protective circuits
- Lateral carrying handles
- Stand sleeve at the top
- Extra powerful sound with a good low limit frequency
- Excellent efficiency

Model	PSUB-18L
Total output power	800 W
Power rating (RMS)	400 W
Input signal	300 mV/20 kΩ (bal. line in)
SPL	99 dB/W/m
Power supply	~ 230 V/50 Hz/1,000 VA
Dimensions	695 x 530 x 580 mm
Weight	46 kg
Inputs	input: XLR
	par. output: XLR



MEGA-118SUB

Order No. 0090080



Premium professional PA cabinet subwoofer, 2,000 W, 8 Ω

- Subwoofer system
- Cabinet made of birch plywood
- Durable 2-component PU coating
- 46 cm (18", Fatial) high-performance bass speaker with diecast aluminium basket
- Bass-reflex system
- 2 x NEUTRIK SPEAKON terminal, in/out
- Mounting holes for mounting optional castors
- M20 mounting plate (recommended distance tube: KM-21367, available at option)

Model	MEGA-118SUB
Total power rating	2,000 W
Power rating (RMS)	1,000 W
Impedance	8 Ω
Frequency range	30-200 Hz
SPL	97 dB/W/m
Dimensions	700 x 570 x 590 mm
Weight	46 kg
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON



MEGA-215DSP

Order No. 0090110



Premium professional active PA subwoofer with DSP, 2,400 W

- High-power active bass-reflex hybrid horn subwoofer system
- 2 x 38 cm (2 x 15", Fatial) high-performance bass speaker
- 2 x PASCAL-S-PRO2 power amplifier modules in bridge circuit
- 3-channel DSP, adjustments via Ethernet or USB, to be programmed as required via DSP control software or app

Model	MEGA-215DSP
Total output power	2,400 W
Power rating (RMS)	2,000 W
Frequency range	35-300 Hz
Input signal	XLR, bal. line, L/R
SPL	98 dB/W/m
Power supply	~ 230 V/50 Hz/2,400 VA
Dimensions	1,050 x 500 x 650 mm
Weight	69 kg
Inputs	XLR: input L/R
Outputs	XLR: par. out L/R
	XLR: DSP out L/R



L-RAY/1000

Order No. 0252090



Professional PA speaker array (controlled by DSP software), active, 1,000 W

Compact array of high power capability with 4 mid-high range speaker units and a dual bass module, each section with its own 350 W power amplifier and controlling software (the configuration of the system is supported by a PC, but it operates as a stand-alone unit). Supplied with extensive and variable equipment for suspended mounting systems (Flyware). The mid-high range systems are each equipped with 2 x 10 cm (4") high-performance speakers and a magnetostatic speaker for a perfect reproduction rich in detail. The dynamic characteristics are absolutely convincing, at the same time the tonality at the basic setting is very pleasant. Despite its compact size, the bass module with 2 x 20 cm (8") bass speaker provides an amazingly deep bass reproduction and a high level stability which is only possible by using special bass speakers of very high power capability and the comprehensive DSP optimisation. The software allows the following adjustments (min. system requirement is a Windows PC only, WIN98 or higher, with CD drive and interface):

- Parametric equalizer (6 bands)
- Filters (high-pass or low-pass up to 36 dB/oct. with various characteristics)
- Level
- Compression and limiting
- Delay

Up to 10 L-RAY systems can be addressed via one RS-485 data bus. With the optional USB/RS-485 converter DA-70157, it is possible to connect a PC or laptop with USB interface to the serial RS-485 interface.

On delivery, the software of the system is matched to a perfect base linearity and can be used immediately. Otherwise, the software adjustments are extremely easy to do and sound engineers can even operate it intuitively.

The system is supplied with a robust mounting frame which is both suitable for suspended installation and for floor and stage applications. The array elements can be curved in 1° steps. The individual components are locked via quick-release pins. The mounting frame also allows for suspended installation of the array elements only, without the subwoofer.

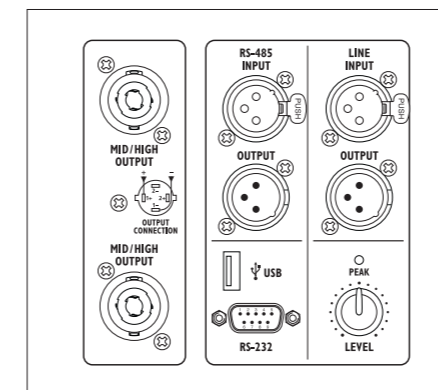
Furthermore, the array elements feature a connecting plate for a bracket for mounting it onto a stand. With the accessories LR-1000U and KM-21367, which are both available at option, the system also allows for a ground-stacked configuration. For this purpose, the subwoofer cabinet features a recessed M20 mounting plate.

The speaker cables with NEUTRIK SPEAKON connectors are in the scope of delivery and allow to connect the parts with each other and with the subwoofer.



Connection to the mains is done via a POWERCON jack, suitable mains cable AAC-115P is included in the delivery.

The robust wooden cabinets feature grilles and a durable structured coating. The L-RAY/1000 systems are a very high-quality solution for every PA application where both perfect tonality and perfect radiation across the room are required. The advantages of the system particularly take effect with fixed installations in clubs and discotheques as well as mobile stage applications of medium size. For larger PA applications, the use of several L-RAY in a cluster is recommended.



Model	L-RAY/1000
Total output power	1,000 W
Power rating (RMS)	700 W (350 W + 350 W)
Frequency range	50-25,000 Hz
THD	< 0.1%
S/N ratio	80 dB
Input signal	1-10 V/30 kΩ
SPL	98 dB/W/m
Beam angle	hor. 120°, vert. 30°-90° var.
Power supply	~ 230 V/50 Hz/1,400 VA
Weight	47.88 kg
Inputs	XLR jack (line), NEUTRIK SPEAKON (speaker)
	PowerCon (power supply)
Outputs	XLR par. out (line), NEUTRIK SPEAKON par. out (speaker)

LR-1000U

Order No. 0254730

U-bracket

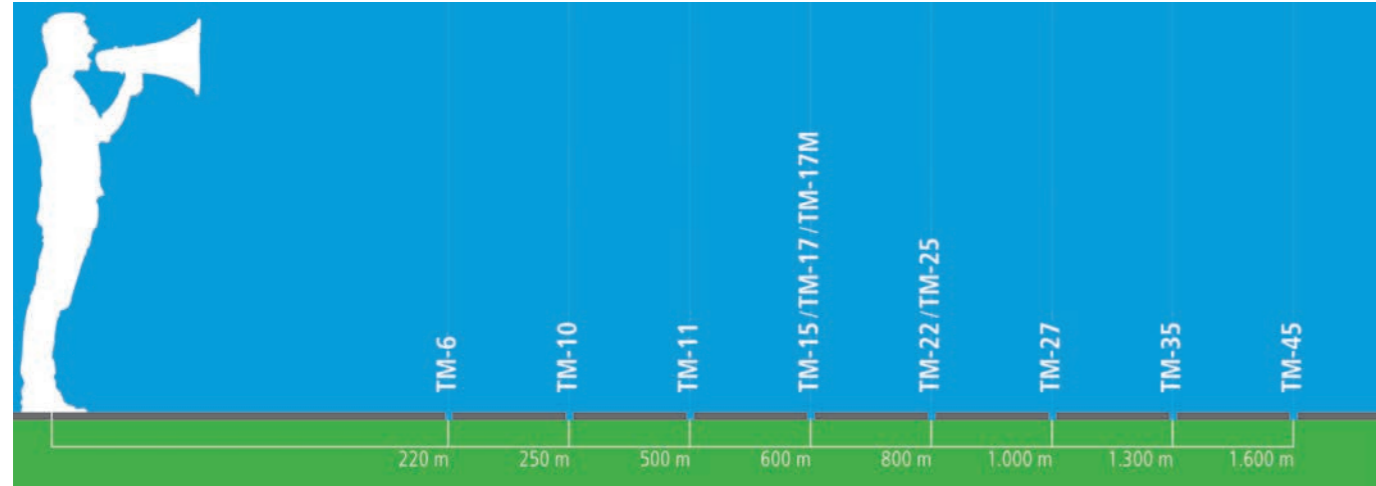
- This U-bracket allows for an upright installation (ground-stacked configuration) of the L-RAY/1000 system
- The mid-high range unit can be tilted by +/-15°

- Supplied with mounting and adjusting elements
- Ground-stacked configuration with L-RAY/1000 (recommended distance tube: KM-21367)
- To be mounted onto a stand



Attention guaranteed!

With our range of reliable megaphones, we provide the perfect solution for each application. A few basic selection criteria will help you to choose the right unit. The operating range surely is the most important one. Here, the following applies: with increasing sound pressure (in dB), the operating range of the megaphone increases, too. Furthermore, it is possible to choose between megaphones with integrated microphone, with hand-held microphone or units with an additional wireless microphone. Each megaphone from MONACOR is supplied with power by standard batteries. As an alternative, a few units also feature a 12 V connection. Size, weight and power supply are further selection criteria for choosing the right megaphone. With these comparison criteria, you will surely find the ideal megaphone meeting your individual requirements very quickly.



TM-45

Order No. 0171000

45 W 124 dB

Model	TM-45
Output power (P _{MAX})	45 W
Sensitivity	124 dB
Power supply	10 x 1.5 V batt. D size not supplied, ext. = 12 V/4 A
Dimensions	Ø 350 mm x 505 mm
Weight	3.3 kg

Megaphone

- Hand-held microphone with removable helix cable
- Lockable talk button and volume control at the microphone
- Aux input with level control
- Jack for external 12 V battery operation
- Siren, switchable
- Connection cable for motor vehicles
- 8 mm threaded bushing for mounting onto a stand



TM-35

Order No. 0170990

35 W 122 dB

Model	TM-35
Output power (P _{MAX})	35 W
Sensitivity	122 dB
Power supply	8 x 1.5 V batt. C size not supplied, ext. = 12 V/3 A
Dimensions	Ø 300 mm x 460 mm
Weight	2.5 kg

Megaphone

- Hand-held microphone with helix cable
- Lockable talk button and volume control at the microphone
- Jack for external 12 V battery operation
- Siren, switchable
- Connection cable for motor vehicles
- 8 mm threaded bushing for mounting onto a stand



TM-27

Order No. 0170980

25 W 119 dB

Model	TM-27
Output power (P _{MAX})	25 W
Sensitivity	119 dB
Power supply	8 x 1.5 V batt. C size not supplied, ext. = 12 V/2 A
Dimensions	Ø 230 mm x 340 mm
Weight	1.7 kg

Megaphone

- Hand-held microphone with fixed helix cable
- Lockable talk button and volume control at the microphone
- Siren, switchable
- Jack for external 12 V battery operation
- Connection cable for motor vehicles



TM-25

Order No. 0170970

25 W 115 dB

Model	TM-25
Output power (P _{MAX})	25 W
Sensitivity	115 dB
Power supply	8 x 1.5 V batt. C size not supplied, ext. = 12 V/2 A
Dimensions	Ø 230 mm x 370 mm
Weight	1.7 kg

Megaphone

- Built-in microphone
- Siren, switchable
- Jack for external 12 V battery operation
- Volume control
- Connection cable for motor vehicles



TM-17M

Order No. 0176720

25 W 110 dB MP3 USB Micro

Model	TM-17M
Output power (P _{MAX})	25 W
Sensitivity	110 dB
Power supply	8 x 1.5 V batt. size C no supplied, ext. 12 V/2 A
Dimensions	Ø 230 mm x 340 mm
Weight	1.3 kg
Other features	MP3, USB, micro SD

Megaphone, with MP3 playback function.

- Hand-held microphone with helix cable
- Lockable talk button, volume control and buttons for recording/playback at the microphone
- Recording function via microphone (up to 20 seconds)
- MP3 module with playback function from USB flash drive or from a micro SD card
- Separate volume control for MP3 and microphone
- Operating switch for siren
- Jack for external 12 V battery operation
- Connection cable for motor vehicles



TM-15

Order No. 0173490

25 W 110 dB

Model	TM-15
Output power (P _{MAX})	25 W
Sensitivity	110 dB
Power supply	8 x 1.5 V batt. C size not supplied
Dimensions	Ø 230 mm x 370 mm
Weight	1.3 kg

Megaphone

- Built-in microphone
- Volume control
- Operating switch for siren, speech and whistling sound



TM-11

Order No. 0173480

15 W **100 dB****Megaphone**

- Built-in microphone
- Siren, switchable
- Volume control

Model	TM-11
Output power (P _{MAX})	15 W
Sensitivity	100 dB
Power supply	8 x 1.5 V battery AA size not supplied
Dimensions	Ø 205 mm x 340 mm
Weight	1.1 kg

**TM-10**

Order No. 0173470

10 W **90 dB****Megaphone**

- Built-in microphone
- Siren, switchable
- Volume control

Model	TM-10
Output power (P _{MAX})	10 W
Sensitivity	90 dB
Power supply	8 x 1.5 V batt. AA size not supplied
Dimensions	Ø 158 mm x 244 mm
Weight	577 g

**TM-6**

Order No. 0171800

8 W **94 dB****Megaphone**, in a plastic housing, small design.

- Built-in microphone
- Siren, switchable
- Volume control

Model	TM-6
Output power (P _{MAX})	8 W
Sensitivity	94 dB
Power supply	6 x 1.5 V batt. AA size not supplied
Dimensions	Ø 150 mm x 237 mm
Weight	620 g

**TM-12DC**

Order No. 0171030

Connection cable

- For megaphones with external power supply
- Fitted with low-voltage plug 5.5/2.1 mm and cigarette lighter plug with power LED
- Integrated fine-wire fuse 5 A
- Also suitable for general use
- Length: 6 m

**WAP-8**

Order No. 1000075

20 W**Portable voice amplifier**

Scope of delivery: 1 electret headband microphone, 1 mini electret microphone, 1 voice amplifier, 2 microphone windshields, 1 line connection cable, 1 plug-in charger and 1 carrying strap, 1 transport bag.

- For general mobile speech applications, e.g. lectures and training sessions, sales events
- Suitable for general applications due to versatile wearing options
- 20 W amplifier with volume control
- Additional line input (3.5 mm jack) for external audio sources, e.g. MP3 players and laptops
- Built-in rech. lithium polymer battery (≈7.4 V/2000 mAh), with LED status indication, charging of the rechargeable batteries via supplied plug-in charger
- Very long operating time of up to 20 hours with fully charged battery
- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones



Model	WAP-8
Rated power (P _{RMS})	15 W
Peak output power	20 W
Frequency range	100-10,000 Hz
THD	0.3%
Max. SPL	82 dB
Power supply	7.4 V rech. lithium polymer battery
Admiss. ambient temp.	0-40 °C
Dimensions	90 x 130 x 30 mm
Weight	288 g
Connections	1 x 3.5 mm jack (mic), 1 x 3.5 mm jack (line)

WAP-5

Order No. 0173200

7 W**Waistband amplifier with line input**

- Supplied with a high-sensitivity electret headband microphone
- For general mobile speech applications, e.g. lectures and training sessions, sporting events, sales events
- With adjustable waist strap
- 7 W amplifier with volume control
- Additional line input (3.5 mm jack) for external audio sources, e.g. MP3 player
- Battery operation/rech. battery operation, charging of the optional rechargeable batteries via supplied plug-in charger, removal of batteries not required
- Operating time with fully charged batteries: approx. 6-8 hours
- Power supply: ≈ 9 V (6 x battery AA size)
- Supplied w/o batteries/rech. batteries

Do not connect the plug-in charger to the voice amplifier when using standard batteries!



Model	WAP-5
Rated power (P _{RMS})	7 W (mains operation), 6 W (battery)
Peak output power	10 W (mains operation), 8 W (battery)
Power supply	via encl. power supply or 6 x batt. AA size
Admiss. ambient temp.	0-40 °C
Dimensions	190 x 90 x 55 mm
Weight	290 g
Connections	1 x 3.5 mm jack (mic), 1 x 3.5 mm jack (line)

PAS-254D

Order No. 0179240



Portable amplifier system, for processions and other mobile applications.

- Very comfortable to wear and great mobility due to backpack method
- 1 speaker with 4 speaker chassis
- Class D power amplifier
- Integrated 2-channel multifrequency wireless receiver (TXA-1822MR)
- Bluetooth receiver for wireless connection of mobile audio devices
- Adjustable USB/SD card player with connection for external storage media
- Built-in rechargeable lead gel battery 12 V/7.2 Ah (operating time: up to 7 hours)
- Compartment for spare rechargeable battery to extend operating time
- Integrated automatic battery charging
- Charging socket for supplied charger
- 1 input via comb. jack mic (XLR)/line (6.3 mm), gain control, tone control, mic input with 12 V phantom power
- 1 stereo line input via RCA jacks, gain control, tone control
- MIX OUT output (RCA)
- Output for a speaker (min. impedance: 4 Ω), either additionally or alternatively to existing speakers
- Adjustable voice over function
- Limiter function
- Nylon backpack with storage pockets

Matching microphone transmitters or pocket transmitters are available at option, e.g. TXA-800HT and TXA-800HSE.

Licence-free in the EU.

Model	PAS-254D
Rated power (P _{RMS})	70 W
Peak output power	80 W
Frequency range	80-20,000 Hz
Carrier frequency	863.1-864.9 MHz
Operating range	≈ 100 m
Inputs	2 mV (mic), 14 mV (line, jack), 80 mV (line, RCA)
Link	300 mV
Power supply	rech. batt. 12 V/7.2 Ah
Dimensions	Total length: 120 cm
Weight	7.7 kg
Connections	1 x XLR (mic), 1 x 6.3 mm jack (line), 1 x RCA L/R (line in), 1 x RCA L/R (line out), 1 x USB, 1 x SPEAKER



TXA-110

Order No. 0172420

Portable amplifier system, with integrated adjustable multifrequency receiver unit with UHF PLL technology.

- Operation via built-in rechargeable lead gel battery 12 V/2.7 Ah (operating time: up to 3 hours) or enclosed switch-mode power supply
- Integrated automatic battery charging

Licence-free in the EU.

Model	TXA-110
Rated power (P _{RMS})	36 W
Peak output power	50 W
Frequency range	60-15,000 Hz
Carrier frequency	863.050-864.925 MHz
Operating range	≈ 30 m
Inputs	10 mV (mic), 100 mV (line)
Equalizer, treble	± 8 dB/10 kHz
Power supply	rech. batt. 12 V/2.7 Ah, via encl. power supply
Dimensions	160 x 210 x 290 mm
Weight	3.15 kg
Connections	1 x 6.3 mm jack (mic), 1 x 3.5 mm jack (line in), 1 x 3.5 mm jack (mix out)



TXA-100HT

Order No. 0172450

Hand-held microphone with integrated multi-frequency transmitter, with UHF PLL technology. Matching the portable amplifier system TXA-110.

- Dynamic microphone cartridge, cardioid polar pattern
- 16 selectable UHF frequencies (863.05-864.925 MHz)

Licence-free in the EU.

Model	TXA-100HT
Polar pattern	cardioid
System	dynamic
Carrier frequency range	863.05-864.925 MHz
Transmitting power	< 10 mW
Power supply	2 x 1.5 batt. AA size
Audio frequency range	50-18,000 Hz
Dimensions	Ø 50 mm x 255 mm
Weight	257 g



TXA-100HSE

Order No. 0172440

Multifrequency pocket transmitter, with UHF PLL technology. Matching the portable amplifier system TXA-110.

- 1 headband microphone (omnidir. polar pattern), 1 tie clip microphone (cardioid polar pattern)
- 16 selectable UHF frequencies (863.050-864.925 MHz)

Licence-free in the EU.

Model	TXA-100HSE
Carrier frequency range	863.050-864.925 MHz
Audio frequency range	50-18,000 Hz
Transmitting power	< 10 mW
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	65 x 100 x 35 mm
Weight transmitter	163 g
Connections transmitter	1 x 3-pole mini XLR



TXA-700USB

Order No. 0174750



Portable amplifier system, with wireless microphone, integrated Bluetooth receiver and USB/SD card player.

- High-performance class D version 80 W, with optimum efficiency
- Operation via mains connection or built-in lead gel battery 2 x 12 V/5 Ah (operating time: up to 6 hours), integrated automatic battery charging
- For mobile applications, e.g. sales events, lectures
- Wireless microphone with adjustable wireless UHF receiver
- Bluetooth receiver for wireless connection of portable audio players
- Adjustable USB/SD card player with connection for external storage media
- Remote control
- 2-way speaker system
- 2 adjustable inputs via comb. jacks (XLR/6.3 mm jack), switchable mic/line
- 1 aux input (3.5 mm jack, RCA)
- Adjustable reverb
- Common master control with 2-way tone control
- 1 line output (6.3 mm jack)
- Due to integrated extractable telescopic handle and 2 castors, amplifier system can easily be pulled like a trolley
- Stand sleeve

Licence-free in the EU.

Model	TXA-700USB
Rated power (P _{RMS})	80 W
Peak output power	120 W
Frequency range	55-20,000 Hz
Carrier frequency	863-865 MHz
Inputs	10 mV (mic), 950 mV (line), 1.4 V (aux)
Equalizer, bass	± 12 dB/55 Hz
Equalizer, treble	± 12 dB/15 kHz
Power supply	~ 230 V/50 Hz/40 VA, rech. battery: 2 x 12 V/5 Ah
Admiss. ambient temp.	0-40 °C
Dimensions	360 x 560 x 325 mm
Weight	17 kg
Connections	2 x XLR/6.3 mm jack (mic/line), 1 x RCA L/R (aux), 1 x 3.5 mm jack (aux), 1 x 6.3 mm jack (line out)



TXA-624CD/SW

Order No. 0179150



Portable amplifier system, with integrated 2-channel multifrequency receiver unit in UHF PLL technology and CD player with anti-shock system.

- Operation via mains connection or built-in rechargeable lead gel battery 12 V/7.2 Ah (operating time: up to 10 hours), integrated automatic battery charging
- For mobile applications, e.g. sales events, lectures
- 2 x 16 selectable UHF frequencies (863.1-864.9 MHz)
- High-quality CD player with slot-in mechanism, USB port for external storage media, reproduction of audio CD, CD-R, MP3 CD
- 2-way bass-reflex speaker system
- Excellent sound characteristics due to 20 cm (8", Faltal) bass speaker and 25 mm (1") tweeter
- 1 input via comb. jack mic (XLR)/line (6.3 mm), gain control, 3-way equalizer
- Supplied with practical protective bag which can stay on during operation

Matching microphone transmitters or pocket transmitters are available at option, e.g. TXA-800HSE or TXA-800HT.

Model	TXA-624CD/SW
Rated power (P _{RMS})	50 W
Peak output power	75 W
Frequency range	50-18,500 Hz
Carrier frequency	863.1-864.9 MHz
Operating range	≈ 30 m
Inputs	4.5 mV, XLR (mic), 30 mV, 6.3 mm jack (line), 200 mV, RCA (line)
Equalizer, bass	± 12 dB/55 Hz
Equalizer, midrange	± 6 dB/1 kHz
Equalizer, treble	± 8 dB/10 kHz
Power supply	~ 230 V/50 Hz/60 VA, rech. batt. 12 V/7.2 Ah
Dimensions	235 x 450 x 280 mm
Weight	9.7 kg
Connections	1 x XLR (mic), 1 x 6.3 mm jack (line), 1 x RCA L/R (line), 1 x RCA L/R (mix out, link), 1 x SPEAKON (ext. speakers)

Licence-free in the EU.



TXA-604/SW

Order No. 0179140

Portable amplifier system, with integrated 2-channel multifrequency receiver unit in UHF PLL technology.

- Operation via mains connection or built-in rechargeable lead gel battery 12 V/7.2 Ah (operating time: up to 10 hours), integrated automatic battery charging
- For mobile applications, e.g. sales events, lectures
- 2 x 16 selectable UHF frequencies (863.1-864.9 MHz)
- Class D power amplifier
- Cabinet with durable two-component PU coating
- 2-way bass-reflex speaker system
- Excellent sound characteristics due to a 20 cm (8", FAITAL) bass speaker and 25 mm (1") horn tweeter
- 1 input via comb. jacks mic (XLR)/line (6.3 mm), gain control, 3-way tone control
- 1 stereo line input via RCA jacks, gain control, common 2-way tone control
- Adjustable talkover
- Link connections (RCA) for combining several amplifier systems TXA-624CD/SW or TXA-604/SW
- SPEAKON connection (4 Ω) for external speaker TXB-602/SW
- Supplied with practical protective shoulder bag which can stay on during operation

Model	TXA-604/SW
Rated power (P _{RMS})	50 W
Peak output power	75 W
Frequency range	50-18,500 Hz
Carrier frequency	863.1-864.9 MHz
Operating range	≈ 30 m
Inputs	4.5 mV, XLR (mic), 30 mV, 6.3 mm jack (line), 200 mV, RCA (line)
Equalizer, bass	± 12 dB/55 Hz
Equalizer, midrange	± 6 dB/1 kHz
Equalizer, treble	± 8 dB/10 kHz
Power supply	~ 230 V/50 Hz/60 VA, rech. batt. 12 V/7.2 Ah
Dimensions	235 x 450 x 280 mm
Weight	9.7 kg
Connections	1 x XLR (mic), 1 x 6.3 mm jack (line), 1 x RCA L/R (line), 1 x RCA L/R (mix out, link), 1 x SPEAKON (ext. speaker)

Matching microphone transmitters or pocket transmitters are available at option, e.g. TXA-800HSE or TXA-800HT.

Licence-free in the EU.



TXB-602/SW

Order No. 0130050

Speaker system, 50 W, 4 Ω, suitable for portable amplifier systems TXA-604/SW and TXA-624CD/SW.

- Cabinet with durable two-component PU coating
- 2-way bass-reflex speaker system
- Excellent sound characteristics due to a 20 cm (8", FAITAL) bass speaker and 25 mm (1") horn tweeter
- Frequency range: 60-18,500 Hz
- SPEAKON connection

- Stand sleeve
- Supplied with practical protective shoulder bag which can stay on during operation
- Dimensions: 240 x 400 x 290 mm
- Weight: 8.2 kg



Professional 16-channel Mono PLL Audio Transmission System, 863-865 MHz

- Compatible with portable amplifier systems TXA-624CD/SW, TXA-604/SW and the TXA-820 and TXA-1020 series
- In addition to the combination with TXA-624CD/SW, TXA-604/SW and the TXA-820 and TXA-1020 series, it can also be used as a tour guide system and for any other application in which a certain audio source or voice source is to be distributed to one or more receivers
- Licence-free in the EU

TXA-802SR

Order No. 0172990

2-channel multifrequency receiver, with UHF PLL technology.

- Matching the transmitters TXA-800HT, TXA-800HSE, TXA-800ST and ATS-12HT
- 2 x 16 selectable UHF frequencies (863.1-864.9 MHz) with diversity system
- Scan function for free channel
- Volume control
- LCD for indicating selected channel and carrier signal

- Balanced XLR output and 6.3 mm jack output
- 482 mm (19") rack installation of 2 devices is possible with supplied mounting brackets
- Power is provided via enclosed plug-in power supply
- Dimensions: 215 x 50 x 210 mm
- Weight: 1.2 kg

Licence-free in the EU.



TXA-800R

Order No. 0172590

16-channel PLL receiver

- Matching the transmitters TXA-800ST, TXA-800HT, TXA-800HSE, ATS-16T and portable amplifier system TXA-802CD with integrated wireless transmitter
- 16 selectable UHF frequencies (863.1-864.9 MHz)
- Adjustable headphone output
- Line output level adjustable in 3 steps
- Metal housing

- Power supply via 2 x 1.5 V battery AA size or NiMH rech. battery (not supplied)
- Scope of delivery includes earphones with rubber ear hook
- Belt clip

Licence-free in the EU.



TXA-802PS

Order No. 0255860

PWM quick-charge station, for simultaneously charging the rechargeable batteries (NC, NiMH) of one multifrequency pocket transmitter TXA-800HSE or the receiver TXA-800R and one hand-held microphone with multifrequency transmitter TXA-800HT.

- Average charging time, depending on capacity and condition of the rechargeable batteries used: approx. 4-5 hours, e.g. for 1,600 mAh rech. batteries
- Each slot with LED for indicating battery charging status
- Supplied with plug-in PSU



TXA-12C

Order No. 0252150

Transport case with intelligent PWM quick-charge function, for receiver TXA-800R and transmitter TXA-800HSE.

- For simultaneously charging rech. batteries (NC, NiMH) of up to 12 units
- Average charging time, depending on capacity and condition of the rechargeable batteries used: approx. 5-6 hours, e.g. for 1,300 mAh rech. batteries

- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Wooden case with black imitation leather cover
- Supplied with matching power supply
- Dimensions: 300 x 170 x 280 mm

Supplied w/o devices.



TXA-36C

Order No. 0252160

Transport case with intelligent PWM quick-charge function, for receiver TXA-800R and transmitter TXA-800HSE.

- For simultaneously charging rech. batteries (NC, NiMH) of up to 36 devices
- Average charging time, depending on capacity and condition of the rech. batteries used: approx. 5-6 hours, e.g. for 1,300 mAh rech. batteries

- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Lockable plastic transport case fitted with castors
- Including matching switch-mode power supply
- Dimensions: 860 x 230 x 350 mm

Supplied w/o devices.



TXA-1000WPB

Order No. 0173630



Protective cover, splashproof version, suitable for portable amplifier systems of the TXA-1020, TXA-1020USB and TXA-1022CD.

- Robust, black synthetic cloth
- Sound-transparent front of meshed fabric with additional water protection cover

- The cover can stay on during operation
- Opening for transport handle and trolley handle
- 2 lateral pockets, each with hook and loop fastener

Supplied w/o device.



TXA-820WPB

Order No. 0179110



Protective cover, splashproof version, suitable for portable amplifier systems TXA-820, TXA-820CD and TXA-822CD.

- Robust, black synthetic cloth
- Sound-transparent front of meshed fabric with additional water protection cover

- The cover can stay on during operation
- Opening for transport handle and trolley handle
- 2 lateral pockets, each with hook and loop fastener

Supplied w/o device.



TXA-1000BAG

Order No. 0172820

Protective cover, suitable for portable amplifier systems TXA-1020, TXA-1020USB and TXA-1022CD.

- Robust, black synthetic cloth
- Sound-transparent front of meshed fabric
- The cover can stay on during operation

- Opening for transport handle and trolley handle
- 2 lateral pockets, each with hook and loop fastener

Supplied w/o device.



TXA-820BAG

Order No. 0179100

Protective cover, suitable for portable amplifier systems TXA-820, TXA-820CD and TXA-822CD.

- Robust, black synthetic cloth
- Sound-transparent front of meshed fabric
- The cover can stay on during operation

- Opening for transport handle
- 2 lateral pockets, each with hook and loop fastener

Supplied w/o device.



TXA-1015ACCU

Order No. 0173210

Rechargeable lead battery, 12 V, universal rech. battery, also suitable as a replacement for the TXA-10xx series, TXA-82xx series and TXA-700USB.

- 12 V/4.5 Ah
- Maintenance-free, hermetically sealed

- Dimensions: 90 x 110 x 70 mm
- Weight: 1.8 kg



TXA-815ACCU

Order No. 0172930

Rechargeable lead battery, 12 V, universal rech. battery, also suitable as a replacement for TXA-110 and the TXA-800 series.

- 12 V/2.9 Ah
- Maintenance-free, hermetically sealed

- Dimensions: 79 x 107 x 56 mm
- Weight: 1.2 kg



TXA-820

Order No. 0179050

TXA-820CD

Order No. 0179060

TXA-822CD

Order No. 0179070



Portable amplifier system, with integrated multifrequency receiver unit with UHF PLL technology (863-865 MHz) and Bluetooth receiver.

- Operation via mains connection or built-in rechargeable lead gel battery 2 x 12 V/4.5 Ah (operating time: up to 5 hours), integrated automatic battery charging with charging status indication, discharge protection
- For mobile applications, e.g. sales events, lectures
- Efficient 2-way speaker system
- 1 microphone input via comb. jack (XLR/6.3 mm), 1 microphone input (6.3 mm jack), 1 stereo line input (RCA), 1 aux input (3.5 mm jack), each input can be adjusted
- Common master control, 2-way tone control
- 1 stereo output (RCA), 1 aux output (3.5 mm jack)
- Switchable microphone priority circuit
- Due to an extractable telescopic handle and 2 castors, the amplifier system can easily be pulled like a trolley
- Stand sleeve

Licence-free in the EU.

TXA-820:

- Amplifier system with 1-channel wireless receiver
- 16 selectable UHF frequencies (863-865 MHz) with diversity system

TXA-820CD:

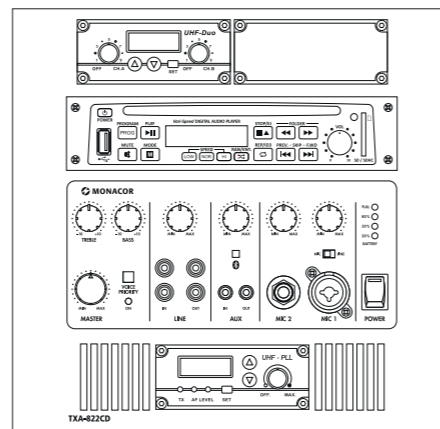
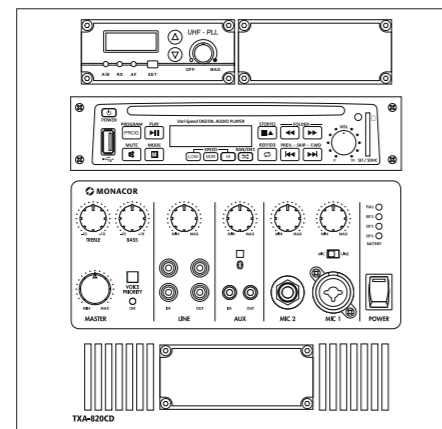
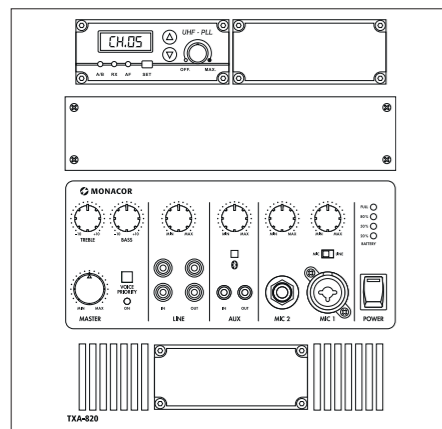
- Amplifier system with 1-channel wireless receiver
- 16 selectable UHF frequencies (863-865 MHz) with diversity system
- CD player with anti-shock system, MP3 reproduction and slot-in mechanism
- SD card reader, USB interface
- Pitch control function
- Supplied with remote control for CD player

TXA-822CD:

- Amplifier system with 2-channel wireless receiver
- 2 x 16 selectable UHF frequencies (863-865 MHz)
- CD player with anti-shock system, MP3 reproduction and slot-in mechanism
- SD card reader, USB interface
- Pitch control function
- Supplied with remote control for CD player
- 1 radio transmitter for wireless audio link operation of several TXA-820 systems



Matching microphone transmitters or pocket transmitters are available at option, e.g. TXA-800HSE, TXA-800HT or ATS-12HT.



Model	TXA-820	TXA-820CD	TXA-822CD
Rated power (P _{RMS})	50 W	50 W	50 W
Peak output power	80 W	80 W	80 W
Frequency range	70-17,000 Hz	70-17,000 Hz	70-17,000 Hz
Carrier frequency	863-865 MHz	863-865 MHz	863-865 MHz
Operating range	≈ 30 m	≈ 30 m	≈ 30 m
Inputs	6 mV (mic), 300 mV (line)	6 mV (mic), 300 mV (line)	6 mV (mic), 300 mV (line)
Link	optional (TXA-820MT)	optional (TXA-820MT)	wireless
Max. SPL	114 dB	114 dB	114 dB
Equalizer, bass	±10 dB/100 Hz	±10 dB/100 Hz	±10 dB/100 Hz
Equalizer, treble	±10 dB/10 kHz	±10 dB/10 kHz	±10 dB/10 kHz
Power supply	~ 230 V/50 Hz/130 VA, rech. battery 2 x 12 V/4.5 Ah	~ 230 V/50 Hz/130 VA, rech. battery 2 x 12 V/4.5 Ah	~ 230 V/50 Hz/130 VA, rech. battery 2 x 12 V/4.5 Ah
Admiss. ambient temp.	0-40 °C	0-40 °C	0-40 °C
Dimensions	305 x 510 x 265 mm	305 x 510 x 265 mm	305 x 510 x 265 mm
Weight	14.5 kg	15.5 kg	15.5 kg
Connections	1 x XLR/6.3 mm jack (mic/line), 1 x 6.3 mm jack (mic) 1 x RCA L/R (line out), 1 x 3.5 mm jack (line out)	1 x XLR/6.3 mm jack (mic/line), 1 x 6.3 mm jack (mic) 1 x RCA L/R (line out), 1 x 3.5 mm jack (line out)	1 x XLR/6.3 mm jack (mic/line), 1 x 6.3 mm jack (mic) 1 x RCA L/R (line out), 1 x 3.5 mm jack (line out)

TXA-800HT

Order No. 0172260

Hand-held microphone with integrated multifrequency transmitter, with UHF PLL technology.

Matching portable amplifier systems TXA-624CD/SW, TXA-604/SW, TXA-802SR and of the TXA-1000 and TXA-800 series.

- Dynamic microphone cartridge, cardioid polar pattern
- 16 selectable UHF frequencies (863.1-864.9 MHz)
- Sensitivity to be adjusted in 2 steps
- Mute function
- Backlit LCD for indicating channel/frequency and battery status
- Transmitting power: 10 mW (EIRP)
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with 4 coloured caps to be pushed on

Licence-free in the EU.

Model	TXA-800HT
Polar pattern	cardioid
System	dynamic
Carrier frequency range	863.1-864.9 MHz
Transmitting power	10 mW
Power supply	2 x 1.5 V batt. AA size
Audio frequency range	70-16,000 Hz
Dimensions	Ø 46 mm x 265 mm
Weight	250 g



TXA-800HSE

Order No. 0172250

Multifrequency pocket transmitter, with UHF PLL technology. Matching portable amplifier systems TXA-624CD/SW, TXA-604/SW, TXA-802SR and of the TXA-1000 series, TXA-800 series.

- 1 headband microphone (omnidir. char.), 1 tie clip microphone (cardioid char.)
- 16 selectable UHF frequencies (863.1-864.9 MHz)
- Metal housing
- Microphone connection via 3-pole mini XLR jack
- Audio line input via 3.5 mm stereo jack
- Sensitivity to be adjusted in 3 steps
- Mute function
- Backlit LCD for indicating channel/frequency and battery status

Model	TXA-800HSE
Carrier frequency range	863.1-864.9 MHz
Audio frequency range	70-16,000 Hz
Transmitting power	10 mW
Operating range	30 m
Power supply transmitter	2 x 1.5 V batt. AA size
Dimensions transmitter	65 x 95 x 30 mm
Weight transmitter	110 g
Connections transmitter	1 x 3-pole mini XLR

- Transmitting power: 10 mW (EIRP)
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Belt clip

Licence-free in the EU.



TXA-820MT

Order No. 0179080

Multifrequency transmitter module, with UHF PLL technology.

For retrofitting amplifier systems of the TXA-820 series or for setting up wireless audio transmission paths.

- 16 selectable UHF frequencies (863-865 MHz)
- Volume control
- LCD for indicating selected channel/frequency
- LEDs for indicating carrier signal and audio signal

Licence-free in the EU.

Model	TXA-820MT
Carrier frequency range	863-865 MHz
Transmitting power	≤ 10 mW
Operating range	approx. 30 m
Power supply transmitter	~ 12 V/120 mA
Dimensions transmitter	88 x 37 x 113 mm
Weight transmitter	80 g



TXA-1020

Order No. 0174590

TXA-1020USB

Order No. 0174600

TXA-1022CD

Order No. 0174610



Portable high-power amplifier systems, with integrated adjustable 2-channel multifrequency receiver unit with UHF PLL technology and Bluetooth receiver.

- High-performance class D version 120 W, with optimum efficiency
- Operation via mains connection or built-in rechargeable lead gel battery 2 x 12 V/4.5 Ah (operating time: up to 4 hours), integrated automatic battery charging with charging status indication, discharge protection
- For mobile applications, e.g. sales events, lectures
- 2 x 16 selectable UHF frequencies (863.1-864.9 MHz)
- Efficient 2-way speaker system with 25 cm (10") bass speaker
- 1 microphone input via comb. jack (XLR/6.3 mm), 1 microphone input (6.3 mm jack), 1 stereo line input (RCA), 1 aux input (3.5 mm jack), each input can be adjusted
- Common master control, 2-way tone control
- 1 stereo line output (RCA), 1 aux output (3.5 mm jack)
- Switchable microphone priority circuit
- Due to an extractable telescopic handle and 2 castors, the amplifier system can easily be pulled like a trolley
- Stand sleeve

TXA-1020:

– Amplifier system with 2-channel wireless receiver

TXA-1020USB:

– Amplifier system with 2-channel wireless receiver
– MP3 player with SD card reader and USB interface
– Supplied with remote control for MP3 player

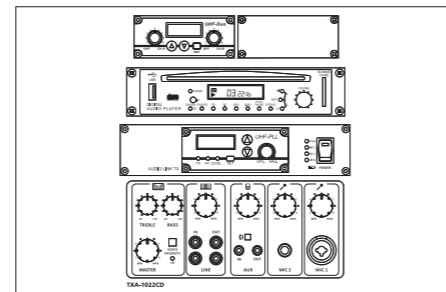
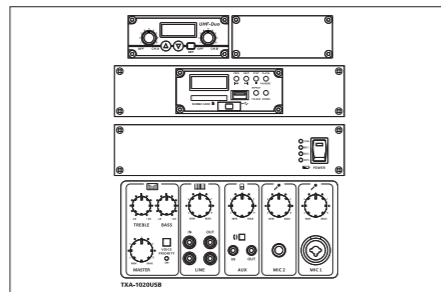
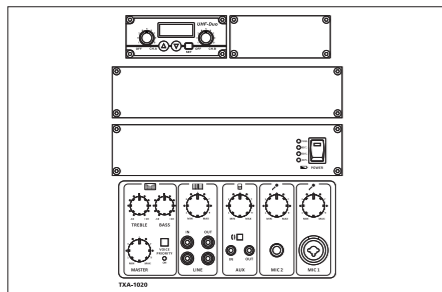
TXA-1022CD:

– Amplifier system with 2-channel wireless receive
– CD player with anti-shock system, MP3 reproduction and slot-in mechanism, pitch control function
– SD card reader, USB interface
– 1 radio transmitter for wireless audio link operation of several TXA-1020 systems
– Supplied with remote control for CD player

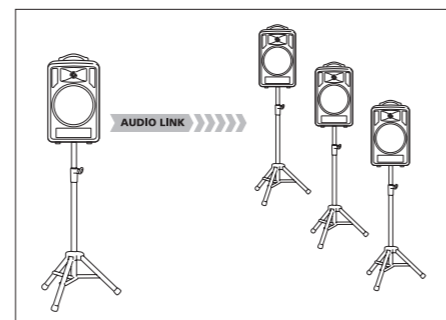
Matching microphone transmitters or pocket transmitters, e.g. TXA-800HSE, TXA-800HT or multifrequency transmitter module TXA-1020MT are available at option.



Licence-free in the EU.



Model	TXA-1020	TXA-1020USB	TXA-1022CD
Rated power (P _{RMS})	120 W	120 W	120 W
Peak output power	170 W	170 W	170 W
Frequency range	20-20,000 Hz	20-20,000 Hz	20-20,000 Hz
Carrier frequency	863.1-864.9 MHz	863.1-864.9 MHz	863.1-864.9 MHz
Operating range	≈ 30 m	≈ 30 m	≈ 30 m
Inputs	6 mV (mic), 300 mV (line, aux)	6 mV (mic), 300 mV (line, aux)	6 mV (mic), 300 mV (line, aux)
Link	optional (TXA-1020MT)	optional (TXA-1020MT)	wireless
Equalizer, bass	±10 dB/100 Hz	±10 dB/100 Hz	±10 dB/100 Hz
Equalizer, treble	±10 dB/10 kHz	±10 dB/10 kHz	±10 dB/10 kHz
Power supply	~ 230 V/50 Hz/170 VA, rech. battery: 2 x 12 V/4.5 Ah	~ 230 V/50 Hz/170 VA, rech. battery: 2 x 12 V/4.5 Ah	~ 230 V/50 Hz/170 VA, rech. battery: 2 x 12 V/4.5 Ah
Admiss. ambient temp.	0-40 °C	0-40 °C	0-40 °C
Dimensions	360 x 580 x 320 mm	360 x 580 x 320 mm	360 x 580 x 320 mm
Weight	17.8 kg	17.25 kg	18.2 kg
Connections	1 x XLR/6.3 mm jack (mic), 1 x 6.3 mm jack (mic), 1 x RCA L/R (line in), 1 x 3.5 mm jack (line in), 1 x RCA L/R (line out), 1 x 3.5 mm jack (line out)	1 x XLR/6.3 mm jack (mic), 1 x 6.3 mm jack (mic), 1 x RCA L/R (line in), 1 x 3.5 mm jack (line in), 1 x RCA L/R (line out), 1 x 3.5 mm jack (line out)	1 x XLR/6.3 mm jack (mic), 1 x 6.3 mm jack (mic), 1 x RCA L/R (line in), 1 x 3.5 mm jack (line in), 1 x RCA L/R (line out), 1 x 3.5 mm jack (line out)



Audio link operation:

The integrated wireless transmitter of the TXA-1022CD transmits audio signals to one or several TXA-1020 systems. Ideally suited for larger indoor PA applications where a consistent sound radiation is required.

TXA-1802CD

Order No. 0176490



CD player insertion module, with anti-shock system and MP3 reproduction.

- Particularly suitable for the TXA-10xx and TXA-8xx series
- Slot-in mechanism
- SD card reader
- USB port for external storage media
- Pitch control function
- Folder navigation

Model	TXA-1802CD
Media	CD, MP3, USB, SD, MMC
Output, analogue	1 V
Power supply	≈ 12 V/1 A
Operating voltage (possible alternative)	≈ 12 V
Power supply (possible alternative)	≈ 1 A
Dimensions	190 x 43 x 190 mm
Weight	1.04 kg
Connections	modular jack



TXA-1822MR

Order No. 0179090

2-channel multifrequency receiver module, with UHF PLL technology.

For retrofitting amplifier systems of the TXA-10xx and TXA-8xx series or for setting up wireless audio transmission paths.

- 2 x 16 selectable UHF frequencies (863-865 MHz)
- Volume control
- LCD for indicating selected channel and carrier frequency

Model	TXA-1822MR
Carrier frequency range	863-865 MHz
Power supply receiver	≈ 12 V/185 mA
Dimensions receiver	88 x 37 x 113 mm
Weight receiver	92 g

- Scan function for free channel
- Supplied with adapter board for TXA-1020 and TXA-800 series

Licence-free in the EU.



TXA-1020MT

Order No. 0174640

Multifrequency transmitter module, with UHF PLL technology.

For retrofitting amplifier systems of the TXA-1020 series or for setting up wireless audio transmission paths.

- 16 selectable UHF frequencies (863.1-864.9 MHz)
- Volume control
- LCD for indicating selected channel/frequency
- LEDs for indicating carrier and audio signals

Model	TXA-1020MT
Carrier frequency range	863.1-864.9 MHz
Transmitting power	≤ 10 mW
Operating range	approx. 30 m
Power supply transmitter	≈ 12 V/140 mA
Dimensions transmitter	91 x 43 x 103 mm
Weight transmitter	220 g

Licence-free in the EU.



TXA-800ST

Order No. 0172600

16-channel PLL transmitter, for microphone operation and line audio signals.

- Matching the receivers TXA-800R, ATS-16R and portable amplifiers of the TXA-800 series, TXA-1020 series as well as TXA-604/SW, TXA-624CD/SW and TXA-802SR
- 16 selectable UHF frequencies (863.1-864.9 MHz)
- Adjustable headphone output
- 482 mm (19") rack installation of 2 devices is possible with supplied mounting brackets

Model	TXA-800ST
Carrier frequency range	863.1-864.9 MHz
Transmitting power	10 mW
Operating range	approx. 30 m
Power supply transmitter	via encl. plug-in power supply
Dimensions transmitter	215 x 50 x 210 mm
Weight transmitter	1.25 kg
Connections transmitter	1 x XLR, bal. (mic in), 1 x 6.3 mm jack, unbal. (mic in), 1 x RCA L/R (line in), 1 x RCA L/R (line out)



Licence-free in the EU.

MS-92/SW

Order No. 0236160

Microphone floor stand, high-quality version. With movable boom of adjustable length and shock-absorbing folding feet. Thread: 9 mm (3/8").

- Mat black lacquered
- Adjustable boom length: 55-94 cm
- Adjustable height: 103-232 cm
- Storage dimensions: 10 x 105 cm
- Weight: 2.6 kg



MS-90/SW

Order No. 0233780

Microphone floor stand, high-quality version. With movable boom and shock-absorbing folding feet. Thread: 9 mm (3/8").

- Mat black lacquered
- Boom length: 74 cm
- Adjustable height: 105-213 cm
- Storage dimensions: 11 x 98 cm
- Weight: 2.58 kg



MS-60/SW

Order No. 0232930

Microphone floor stand, with movable boom of adjustable length and shock-absorbing folding feet. Thread: 16 mm (5/8") and 9 mm (3/8").

- Mat black lacquered
- Adjustable boom length: 56-95 cm
- Adjustable height: 106-242 cm
- Storage dimensions: 10 x 98 cm
- Weight: 2.5 kg



MS-50/SW

Order No. 0232920

Microphone floor stand, with movable boom and shock-absorbing folding feet. Thread: 16 mm (5/8") and 9 mm (3/8").

- Mat black lacquered
- Boom length: 72 cm
- Adjustable height: 99-225 cm
- Storage dimensions: 10 x 93 cm
- Weight: 2.4 kg



MS-40/SW

Order No. 0232900

Microphone floor stand, with pivoting boom and shock-absorbing folding feet. Thread: 16 mm (5/8") and 9 mm (3/8").

- Mat black lacquered
- Boom length: 72 cm
- Adjustable height: 95-210 cm
- Storage dimensions: 9 x 88 cm
- Weight: 1.88 kg



MS-20/SW

Order No. 0232870

Microphone floor stand, with movable boom of adjustable length and shock-absorbing folding feet. Thread: 9 mm (3/8").

- Mat black lacquered
- Adjustable boom length: 41-60 cm
- Height: 56 cm
- Storage dimensions: 10 x 56 cm
- Weight: 1.8 kg



KM-210/9

Order No. 0236240



Microphone floor stand, with movable boom of adjustable length and shock-absorbing folding feet. Thread: 9 mm (3/8").

- Mat black lacquered
- Adjustable boom length: 46-77 cm
- Adjustable height: 90-160 cm
- Weight: 3.1 kg



KM-259

Order No. 0236260



Half-height microphone floor stand, with movable boom of adjustable length and shock-absorbing folding feet. Thread: 9 mm (3/8").

- Mat black lacquered
- Adjustable boom length: 47-77 cm
- Adjustable height: 43-64 cm
- Weight: 2.05 kg



KM-26085

Order No. 0236270



Microphone floor stand with one-hand height adjustment, mat black lacquered, with shock-absorbing black diecast base (Ø 25 cm).

- Handle with soft-touch coating
- Thread: 9 mm (3/8")
- Adjustable height: 106-179 cm
- Weight: 2.89 kg



MS-28

Order No. 0235440

Microphone floor stand, mat black lacquered, with shock-absorbing black diecast base (Ø 25 cm). Very robust and stable version.

- Thread: 9 mm (3/8")
- Adjustable height: 88-156 cm
- Weight: 4.5 kg



KM-101

Order No. 0254660



Music stand

- Black lacquered steel version
- Folding for compact storage: 37 x 4.5 x 7 cm
- Adjustable height: 65-122.5 cm
- Music sheet holder: 44 x 21.5 cm
- 2-fold telescopic tube combination
- Tripod folding feet
- Weight: 1.04 kg



MSS-20/SW

Order No. 0251530

Professional music stand

- Black lacquered stand and music sheet holder
- Adjustable height: 102-153 cm
- Tilttable music sheet holder, removable, dimensions: 49 x 34 cm
- Total weight: 3.4 kg



KM-214/6

Order No. 0112070



Speaker stand

- Lightweight aluminium version, mat black lacquered
- Height adjustable in 5 steps (137-218 cm), with locking pin, additionally secured via locking screw
- 35 mm spigot
- Max. load/central weight concentration: 50 kg
- Weight: 4.3 kg
- Type approved by TÜV (Technical Inspection Authority, Germany)

KM-21435

Order No. 0112060



Speaker stand

- Robust steel version, mat black lacquered
- Height adjustable in 5 steps (144-223 cm), user-friendly locking due to push-button system, additionally secured via locking screw
- Integrated shock absorber
- 35 mm spigot, weight: 5.5 kg
- Max. load/central weight concentration: 50 kg
- Type approved by TÜV (Technical Inspection Authority, Germany)

PAST-250/SW

Order No. 0120420



Professional speaker stand

- Lightweight aluminium version
- Air-suspended centre column
- Height adjustable in 5 steps, with locking pin
- Aluminium, black

PAST-122/SW

Order No. 0118700



Speaker stand, stable steel tube version, height adjustable in 5 steps, with locking pin.

- Steel, black

PAST-120/SW

Order No. 0121710



Speaker stand

- Robust steel tube version
- Height adjustable in 6 steps, with locking pin
- High stability due to magnesium joint sleeve
- Steel, black

PAST-164/SW

Order No. 0111960



Speaker stand

- Extra lightweight aluminium version
- Height adjustable in 6 steps, with locking pin
- Aluminium, black

PAST-200/SW

Order No. 0120380



Professional speaker stand

- Lightweight aluminium version
- Requires little floor space
- Air-suspended centre column
- Height adjustable in 4 steps, with locking pin
- Aluminium, black

PAST-125/SW

Order No. 0118870



Speaker stand

- Robust steel tube version
- Requires little floor space
- Height adjustable in 3 steps, with locking pin
- High stability due to magnesium joint sleeve
- Steel, black

Model	PAST-250/SW	PAST-122/SW	PAST-120/SW	PAST-164/SW	PAST-200/SW	PAST-125/SW
Features	air-suspended centre column	-	magnesium joint sleeve	-	air-suspended centre column	-
Material	aluminium	steel tube	steel tube	aluminium	aluminium	steel tube
Colour	black	black	black	black	black	black
Max. load/centr. weight concentr.	40 kg	30 kg	40 kg	30 kg	30 kg	40 kg
Tube diameter	Ø 35 mm	Ø 35 mm	Ø 35 mm	Ø 35 mm	Ø 35 mm	Ø 35 mm
Adjustable height	147-218 cm	130-205 cm	130-200 cm	140-200 cm	107-157 cm	92-137 cm
Storage dimensions	106 x 15 cm	107 x 13 cm	110 x 15 cm	103 x 14 cm	95 x 14 cm	76 x 10 cm
Weight	2.8 kg	4.1 kg	4.6 kg	1.6 kg	2.18 kg	3.18 kg
Special feature	adjustable in 5 steps	adjustable in 5 steps	adjustable in 6 steps	adjustable in 6 steps	adjustable in 4 steps	adjustable in 3 steps

KM-26735

Order No. 0112460



Speaker stand, with flat diecast base (Ø 450 mm).

- Decorative and space-saving design
- Robust steel version, mat black lacquered
- Height adjustable in 4 steps (110-178 cm), with locking pin, additionally secured via locking screw
- 35 mm spigot
- Max. load/central weight concentration: 20 kg
- Weight: 9.64 kg
- Delivery consists of 2 boxes

PAST-164SET

Order No. 0111970



Speaker stand set, consisting of two aluminium stands PAST-164/SW and a nylon tripod bag. For specifications, please refer to the individual items.

PAST-122SET

Order No. 0118710



Speaker stand set, consisting of two steel stands PAST-122/SW and a nylon tripod bag. For specifications, please refer to the individual items.

KM-21302

Order No. 0112030



Telescopic speaker stand

- Robust steel version, mat black lacquered
- Crank handle with push-button for unlocking and locking screw
- Adjustable height: 138-218 cm
- 35 mm spigot with integrated M10 threaded bushing
- Max. load/central weight concentration: 40 kg
- Weight: 7.5 kg
- Type approved by TÜV (Technical Inspection Authority, Germany)

PAST-125SET

Order No. 0118910



Speaker stand set, consisting of two steel stands PAST-125/SW and a nylon tripod bag. For specifications, please refer to the individual items.

PAST-25/SW

Order No. 0129870



Distance tube, for stand inserts with standard diameter.

- Black lacquered steel tube version
- Height adjustable in 5 steps (86-134 cm), with locking pin
- Load capacity: 30 kg
- Weight: 1.4 kg

KM-21367

Order No. 0112140



Distance tube, with patented expanding mandrels 'ring lock' for a secure and low-resonance connection via plastic expanding jaws at the top and M20 threaded bolt at the bottom.

- For stand inserts with standard diameter
- Mounting plate with M20 inside thread
- KM-24116 is available at option
- Black lacquered steel tube version
- Height adjustable in 3 steps (98-137 cm), with locking screw
- Weight: 2.56 kg

KM-12190

Order No. 0259007



Laptop stand

- Easily assembled and disassembled
- High stability
- Lightweight
- Individually adjustable for laptops, mixers or CD players
- Horizontal application height: 320 mm, 3-step tilt
- Supplied with support pads to protect the devices



KM-18990

Order No. 0257710



Keyboard stand

- Double brace steel version
- Height adjustable in steps of 5°, with quick-acting tension lever
- 4 slip-resistant foot caps, one of which is adjustable in height to compensate for uneven ground
- Load capacity: 50 kg
- Support: 327-789 x 350 mm
- Height: 594-946 mm
- Weight: 5.64 kg



KS-85/SW

Order No. 0251980

Universal stand

- Double brace steel version
- Lock-in with 7 locking positions, to be easily adjusted via lever at the upper side of the stand
- Feet can be adjusted in height to compensate floor unevenness
- Load capacity: 50 kg
- Support: 40 x 82 cm
- Max. height: 98 cm
- Tube: Ø 28 mm



KM-12225

Order No. 0259004



Tray

- For mixers, controllers, tablet PCs, percussion instruments and music accessories
- Locking clip (tube diameter: up to 30 mm)
- Usable tray space: 250 x 330 mm
- Robust steel plate with cable routing
- Vibration-reducing foam insert
- Distance to the stand and alignment of the tray can be adjusted



KM-17650

Order No. 0259003



Guitar stand, 'Carlos'.

- Lightweight plastic construction for acoustic guitars or electric guitars
- Felt pads to protect guitars
- Neck lock (security lock) for securely holding the guitar
- Flat folding for easy transport
- Suitable for any guitar lacquer (including nitro lacquer)



KM-17515

Order No. 0259002



5 guitar stand, 'Guardian 5'.

- Multi-guitar stand for 5 acoustic guitars, electric guitars or electric bass guitars
- Flexible protective bars
- Translucent elastomer support elements are suitable for any guitar lacquer (including nitro lacquer)
- Guitars can be held from either side
- Integrated pick holder
- Space-saving design
- Can conveniently be carried due to folding mechanism



KM-17525

Order No. 0259001



5 guitar stand, 'Guardian 5'.

- Multi-guitar stand for 5 electric guitars or electric bass guitars
- Flexible protective bars
- Translucent elastomer support elements are suitable for any guitar lacquer (including nitro lacquer)
- Guitars can be held from either side
- Integrated pick holder
- Can conveniently be carried due to folding mechanism



KM-19740

Order No. 0255910



Holder for tablet PCs, with mounting clamp for stands.

- Clamping range of the holder: 120-220 mm
- Tension spring for easy insertion and removal
- Adjustable retaining clamp
- Can be rotated for portrait or landscape format, tiltable
- To be secured with clamp for mounting onto microphone stands (tube diameter: up to 30 mm)



Supplied w/o tablet PC and stand.

KM-19742

Order No. 0255920



Holder for tablet PCs, with threaded bolt for stands.

- Clamping range of the holder: 120-220 mm
- Tension spring for easy insertion and removal
- Adjustable retaining clamp
- Can be rotated for portrait or landscape format, tiltable
- 9 mm (3/8") threaded bolt for mounting onto microphone stands



Supplied w/o tablet PC and stand.

NPL-302

Order No. 0259861

Music stand light with 2 x LED gooseneck light and clip

- 6 white COB LEDs each of high luminous intensity, 3 brightness levels
- Power is provided via enclosed power supply or 3 x 1.5 V battery AA size (not supplied)
- Clamp width: up to 30 mm
- Length of gooseneck: 30 cm each



RLED-111USB

Order No. 0259862



482 mm (19") rack light, 1 RU, with gooseneck light and USB port

- 6 white COB LEDs of high luminous intensity
- 3 brightness levels
- Length of gooseneck: 30 cm
- USB port (= 5 V/1.2 A)
- Power is provided via enclosed power supply



GNL-453XLR

Order No. 0259858

LED gooseneck light

- 6 white COB LEDs of high luminous intensity
- 12 V/60 mA
- 3 brightness levels
- Colour temp.: cool white (6000-6500 K)
- Luminous flux: 144-156 lm
- 3-pole XLR plug
- Length of gooseneck: 45 cm



GNL-454XLR

Order No. 0259859

LED gooseneck light

- 6 white COB LEDs of high luminous intensity
- 12 V/60 mA
- 3 brightness levels
- 4-pole XLR plug
- Length of gooseneck: 45 cm



GNL-300USB

Order No. 0259856



LED gooseneck light

- 6 white COB LEDs of high luminous intensity
- = 5 V/60 mA
- 3 brightness levels
- USB Type-A plug
- Length of gooseneck: 30 cm



GNL-450BNC

Order No. 0259857

LED gooseneck light

- 6 white COB LEDs of high luminous intensity
- 12 V/60 mA
- 3 brightness levels
- BNC plug-in connector
- Length of gooseneck: 45 cm



MR-162DESK 

Order No. 0252180

Professional rolling case for 482 mm (19") devices, with 2 integrated desks.

- 9 RU mounting facility for 482 mm top-operated devices (mixers or similar), upward tilting rack rails with click-stop hinges
- 16 RU mounting zone for devices which require horizontal mounting
- Suitable for devices with a max. depth of 480 mm
- Front part and rear part with integrated folding feet (desk feature), effective surface: approx. 920 x 525 mm each, height: approx. 760 mm each

- 9 mm multiplex wood, moisture repellent, black, plastic-laminated (slightly structured)
- Robust bottom plate, 13 mm thick
- Aluminium profile edges
- Chrome-plated ball protection corners and closing angles
- 100 mm castors, 2 of which are provided with locking brakes
- Butterfly locks
- 2 recessed drop handles at each side ensure safe and convenient handling
- Inside dimensions: 500 x 715 x 520 mm



MR-106PC 

Order No. 0250190

Flight case, with integrated laptop rack.

- 6 RU: Vertical profile rails for inserting 482 mm (19") devices. Suitable for devices with a maximum depth of 480 mm
- 8 RU: Horizontal and slightly upward tilted mounting rails for 482 mm (19") top-operated devices, e.g. mixers
- Sliding top part with non-slip surface for laptops
- 9 mm plywood, black laminated
- Aluminium profile edges

- Chrome-plated ball corners, reinforcing angles and connectors
- Butterfly locks and recessed drop handles
- Rear service cover with cable outlet
- Inside dimensions: 515 x 390 x 590 mm
- Outside dimensions: 570 x 445 x 630 mm
- Weight: 20 kg
- Supplied with 32 cage nuts

Supplied w/o devices.



MR-919DJ 

Order No. 0244710

Flight case, 9 RU, for 482 mm (19") top-operated devices, e.g. mixers. Mounting rails with a fixed inclination angle of approx. 13°, thus the mounting depth varies between 100 and 185 mm.

- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles
- Butterfly locks and recessed drop handles
- Particularly suitable for variable installation of devices

using castle nuts M6 x 7 mm; aluminium rails with non-slipping feature (guiding rubber prevents slipping of the castle nuts, thus easy mounting)

- Dimensions: 527 x 230 x 485 mm
- Weight: 8.2 kg
- Supplied with 4 castle nuts

Supplied w/o devices.



RCS-92/SW 


Order No. 0111410

Rack-mount power strip, with 9 earthed sockets.

- Sockets turned by 45°
- Black aluminium housing
- Removable mounting brackets
- 2 m connection cable with earthed plug



- Cable specification: H05VV-F3G x 1.5 mm², 3,600 VA max.
- Dimensions: 482 x 44 x 45 mm, 1 RU

RCS-18 

Order No. 0111200

Rack-mount power strip, with 8 earthed sockets and overvoltage protection.

- Child safety sockets
- Sockets turned by 45°
- Illuminated main switch
- Black plastic housing



- 1 m connection cable with earthed plug, cable inlet can be turned by 90° via flexible joint
- Cable specification: H05VV-F3G x 1.5 mm², 3,600 VA max.
- Dimensions: 482 x 44 x 60 mm, 1 RU

RCS-85/SW 

Order No. 0111850

Rack-mount power strip, with an illuminated main switch on the front panel and 8 earthed sockets on the rear panel.

- Sockets turned by 45°
- Removable mounting brackets to allow for reversed mounting



- Black aluminium housing
- 2 m connection cable with earthed plug
- Cable specification: H05VV-F3G x 1.5 mm², 3,600 VA max.
- Dimensions: 482 x 44 x 52 mm, 1 RU

MCS-180 

Order No. 0050002

Rack-mount power strip, with 8 earthed sockets.

- Sockets can be switched individually via illuminated switches
- Black sheet steel housing
- 1.8 m connection cable with earthed plug



- Cable specification: H05VV-F3G x 1.5 mm², 3,600 VA max.
- Dimensions: 482 x 89 x 110 mm, 2 RU

Series of Flight Cases

With vertical profile rails for inserting 482 mm (19") devices. Suitable for devices with a maximum depth of 480 mm.

Horizontal and slightly upward tilted mounting rails for 482 mm (19") top-operated devices, e.g. mixers.

- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles
- Each case is equipped with butterfly locks and recessed drop handles
- The add-on DJ case MR-112DJ is supplied with 4 castors (2 of which are provided with a brake)
- Supplied with cage nuts



Supplied w/o devices.

Model	Order No.	Rack units, RU	Mounting accessories	Inside dimensions	Outside dimensions	Weight	Position
MR-112DJ	0246760	12 vertical, 10 horizontal	44 cage nuts	520 x 660 x 590 mm	560 x 850 x 640 mm	30.1 kg	A
MR-106DJ	0245980	6 vertical, 10 horizontal	32 cage nuts	520 x 390 x 590 mm	550 x 440 x 640 mm	16.82 kg	B
MR-104DJ	0243450	4 vertical, 10 horizontal	28 cage nuts	520 x 310 x 590 mm	560 x 350 x 640 mm	14.96 kg	C

MR-405TXS 

Order No. 0244460

Flight case, 5 RU, particularly suitable for wireless microphone systems, e.g. 4 x receiver unit TXS-871/TXS-872/TXS-875 and 1 x antenna splitter TXS-870DS. Also suitable for other wireless microphone systems and 482 mm devices with a max. depth of 255 mm behind the front panel.

- Storage compartments with holding straps for transmitter and accessories
- Plywood, black laminated, aluminium profile edges, butterfly locks, recessed drop handles
- Supplied with mounting screws
- Dimensions: 540 x 265 x 460 mm
- Weight: 9.4 kg



Rolling Flight Cases

With vertical profile rails at the front and rear for inserting 482 mm (19") devices. In addition, they are fitted with upward tilting mounting rails (10 RU) for 482 mm (19") top-operated devices (e.g. mixers). Suitable for devices with a maximum depth of 480 mm.

- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles and connectors
- Each case is equipped with butterfly locks and recessed drop handles
- There is a difference of 2 RU only between the models MR-182 and MR-162 which allows for an optimum working height, depending on the user's height
- Supplied with cage nuts



Model	Order No.	Rack units, RU	Mounting accessories	Inside dimensions	Outside dimensions	Weight	Position
MR-182	0244990	18	56 cage nuts	500 x 1,080 x 680 mm	550 x 1,180 x 720 mm	42.62 kg	A
MR-162	0244980	16	52 cage nuts	500 x 910 x 680 mm	550 x 1,080 x 720 mm	41.08 kg	B
MR-122	0244970	12	44 cage nuts	500 x 740 x 680 mm	550 x 910 x 720 mm	35.12 kg	C

Series of Flight Cases

- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles and connectors
- Profile rails at the front and rear
- Suitable for devices with a depth of approx. 480 mm and 20 RU max. Each case is equipped with butterfly locks and recessed drop handles. The cases from 10 RU to 20 RU are supplied with 4 castors, 2 of which are provided with brakes
- Supplied with cage nuts
- Max. inside depth behind the front panel: 480 mm, inside depth before the front panel: 90 mm



Model	Order No.	Rack units, RU	Mounting accessories	Inside dimensions	Outside dimensions	Weight	Position
MR-720	0245060	20	40 cage nuts	500 x 900 x 680 mm	550 x 1,080 x 720 mm	36.72 kg	A
MR-716	0245050	16	64 cage nuts	500 x 725 x 680 mm	550 x 910 x 720 mm	32.47 kg	B
MR-712	0245040	12	48 cage nuts	500 x 545 x 680 mm	550 x 730 x 720 mm	27.06 kg	C
MR-710	0245030	10	20 cage nuts	500 x 455 x 680 mm	550 x 640 x 720 mm	25.64 kg	D
MR-708	0245020	8	16 cage nuts	500 x 370 x 680 mm	550 x 420 x 720 mm	15.7 kg	E
MR-706	0245010	6	24 cage nuts	500 x 280 x 680 mm	550 x 330 x 720 mm	13.98 kg	F
MR-704	0245000	4	8 cage nuts	500 x 190 x 680 mm	550 x 240 x 720 mm	11.98 kg	G

Series of Flight Cases

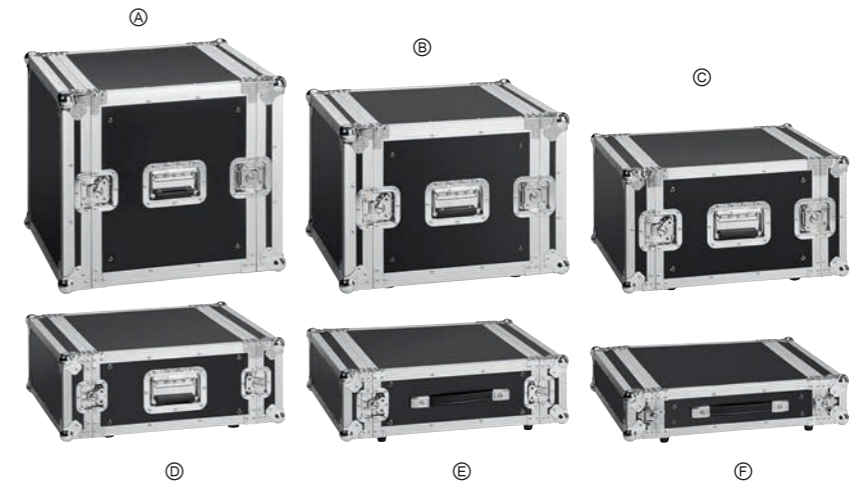
- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles and connectors
- Aluminium rails at the front and rear with M6 cage nuts for variable installation of devices, no slipping of the cage nuts, thus easy mounting

Standard series:

For devices with a depth of approx. 420 mm and 10 RU max., 5 layers of plywood, 6 mm thick. Equipped with butterfly locks and recessed drop handles, MR-402 and MR-403 with strap handles.

Max. inside depth behind the front panel: 440 mm.

Max. inside depth before the front panel: 55 mm.



Model	Order No.	Rack units, RU	Mounting accessories	Inside dimensions	Outside dimensions	Weight	Position
MR-410	0242270	10	24 cage nuts	485 x 450 x 530 mm	545 x 510 x 585 mm	17.3 kg	A
MR-408	0242260	8	32 cage nuts	485 x 365 x 530 mm	545 x 420 x 585 mm	15.54 kg	B
MR-406	0242250	6	24 cage nuts	485 x 270 x 530 mm	535 x 320 x 580 mm	9.72 kg	C
MR-404	0242240	4	16 cage nuts	485 x 185 x 530 mm	535 x 225 x 580 mm	8.04 kg	D
MR-403	0242230	3	12 cage nuts	485 x 140 x 530 mm	555 x 185 x 580 mm	6.68 kg	E
MR-402	0242220	2	8 cage nuts	485 x 92 x 530 mm	555 x 140 x 580 mm	5.64 kg	F

MR-1918/SW

Order No. 0247450



- Table rack, with a total of 8 RU.
- Vertical version for accepting 482 mm (19") devices which require horizontal mounting, e.g. CD players
- Black lacquered

Model	MR-1918/SW
Rack units, RU	8
Outside dimensions	550 x 475 x 390 mm
Max. load capacity	20 kg
Weight	2.1 kg



MZF-8645

Order No. 0123500

- Set of cage nuts and screws, for mounting 482 mm (19") inserts into racks and flight cases. The set consists of:
- 4 x M6 cage nut
- 4 x M6 x 15 mm recessed head screw
- 4 x plastic washer



MZF-8648

Order No. 0129410

- Set of cage nuts and screws, for mounting 482 mm (19") inserts into racks and flight cases. The set consists of:
- 4 x M6 cage nut
- 4 x M6 x 15 mm recessed head screw
- 4 x plastic washer



MR-10LIGHT

Order No. 0250260

Rolling flight case, for transporting light effect units.

- 2 partitions and a storage tray, several positions possible
- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners
- Butterfly locks, recessed drop handles
- 4 castors
- Stackable due to indentations for the castors in the cover of the flight case
- Inside dimensions: 1,175 x 580 x 540 mm
- Outside dimensions: 1,220 x 765 x 625 mm
- Weight: 54 kg



MR-42LIGHT

Order No. 0253060

Rolling flight case, for transporting light effect units.

- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles
- Butterfly locks, recessed drop handles
- 4 castors (two of which are provided with a brake)
- Carpet lining
- 2 inside partitions, several positions possible
- Inside dimensions: 582 x 592 x 554 mm
- Outside dimensions: 620 x 770 x 620 mm
- Weight: 31.4 kg



MR-6LIGHT

Order No. 0250820

Universal rolling flight case, for transporting e.g. stands, cables and accessories for stage applications, DJs or lighting equipment.

- Due to special design, flight case can easily be pulled like a trolley
- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners
- Butterfly locks, recessed drop handles
- 4 castors
- Foam-padded interior
- Inside dimensions: 980 x 345 x 345 mm
- Outside dimensions: 1,050 x 440 x 410 mm
- Weight: 19.2 kg



MR-3LIGHT

Order No. 0244420

MR-2LIGHT

Order No. 0244410

Universal flight cases, for transporting e.g. light effect units, cables, accessories.

- Plywood, black laminated
- Aluminium profile edges
- Chrome-plated ball corners, reinforcing angles
- Butterfly locks, recessed drop handles
- Foam-padded interior

- Inside dimensions: 525 x 315 x 420 mm (MR-3LIGHT), 450 x 220 x 350 mm (MR-2LIGHT)
- Outside dimensions: 570 x 355 x 470 mm (MR-3LIGHT), 500 x 270 x 400 mm (MR-2LIGHT)
- Weight: 8.6 kg (MR-3LIGHT), 6.8 kg (MR-2LIGHT)



MR-108T

Order No. 0243270



Hard-sided flight case, 8 RU, for 482 mm (19") devices.

- Devices can be inserted from both sides (double door system)
- Scratch-proof and shock-proof, black ABS housing
- Fully closed 3 mm aluminium profile frames
- High stability despite low weight
- Stackable
- Robust carrying handles and additional telescopic handle
- Butterfly locks
- Castors

- Mounting depth behind front panel: 480 mm for 6 RU
Mounting depth behind front panel: 120 mm for 2 RU
- Supplied with cage nuts and recessed head screws
- Inside dimensions: 550 x 444 x 360 mm
- Outside dimensions: 580 x 560 x 450 mm
- Weight: 9 kg



Hard-Sided Flight Cases



For 482 mm (19") devices.

- Devices can be inserted from both sides (double door system)
- Scratch-proof and shock-proof black ABS housing
- Fully closed 3 mm aluminium profile frames
- High stability despite low weight
- Stackable
- Robust carrying handles
- Butterfly locks
- Mounting depth behind the front panel: 480 mm
- Supplied with mounting screws

Supplied w/o devices.



Model	Order No.	Rack units, RU	Mounting accessories	Inside dimensions	Usable depth	Outside dimensions	Weight	Position
MR-108	0247860	8	mounting screws	444 x 375 x 530 mm	480 mm	540 x 430 x 560 mm	7.38 kg	A
MR-106	0247850	6	mounting screws	444 x 285 x 530 mm	480 mm	540 x 340 x 560 mm	6.38 kg	B
MR-104	0247840	4	mounting screws	444 x 195 x 530 mm	480 mm	540 x 250 x 560 mm	5.46 kg	C
MR-102	0247830	2	mounting screws	444 x 110 x 530 mm	480 mm	540 x 160 x 560 mm	4.14 kg	D

XLR Cables

Line and microphone extension cables.

- Fitted with NEUTRIK connectors
- 1 x XLR inline jack and 1 x XLR plug, balanced
- Shielded low-noise OFC cable material, Ø 6.5 mm



Model	Order No.	Length	Colour	Cable diameter
MECN-100/SW	0065940	1 m	black	Ø 6.5 mm
MECN-200/BL	0065950	2 m	blue	Ø 6.5 mm
MECN-200/RT	0065960	2 m	red	Ø 6.5 mm
MECN-200/SW	0065970	2 m	black	Ø 6.5 mm
MECN-600/BL	0065980	6 m	blue	Ø 6.5 mm
MECN-600/RT	0065990	6 m	red	Ø 6.5 mm
MECN-600/SW	0066000	6 m	black	Ø 6.5 mm
MECN-1000/BL	0066010	10 m	blue	Ø 6.5 mm
MECN-1000/RT	0066020	10 m	red	Ø 6.5 mm
MECN-1000/SW	0066030	10 m	black	Ø 6.5 mm
MECN-1500/SW	0066040	15 m	black	Ø 6.5 mm
MECN-2000/SW	0066050	20 m	black	Ø 6.5 mm

XLR cables

Line and microphone extension cables

- Fitted with REAN connectors (made by NEUTRIK)
- 1 x XLR inline jack and 1 x XLR plug, balanced
- Shielded low-noise OFC cable material, Ø 5.9 mm



Model	Order No.	Length	Colour	Cable diameter
MECR-50/SW	0069320	0.5 m	black	Ø 5.9 mm
MECR-100/SW	0069270	1 m	black	Ø 5.9 mm
MECR-200/SW	0069300	2 m	black	Ø 5.9 mm
MECR-600/SW	0069330	6 m	black	Ø 5.9 mm
MECR-1500/SW	0069290	15 m	black	Ø 5.9 mm
MECR-2000/SW	0069310	20 m	black	Ø 5.9 mm

XLR Cables

Line and microphone extension cables.

- 1 x XLR inline jack and 1 x XLR plug, balanced
- Shielded low-noise OFC cable material, Ø 6.5 mm



Model	Order No.	Length	Colour	Cable diameter
MEC-50/BL	0061680	0.7 m	blue	Ø 6.5 mm
MEC-50/RT	0061710	0.7 m	red	Ø 6.5 mm
MEC-50/SW	0061720	0.7 m	black	Ø 6.5 mm
MEC-100/BL	0061740	1 m	blue	Ø 6.5 mm
MEC-100/RT	0061770	1 m	red	Ø 6.5 mm
MEC-100/SW	0061780	1 m	black	Ø 6.5 mm
MEC-190/BL	0062520	2 m	blue	Ø 6.5 mm
MEC-190/RT	0062550	2 m	red	Ø 6.5 mm
MEC-190/SW	0062560	2 m	black	Ø 6.5 mm
MEC-20/SW	0060710	6 m	black	Ø 6.5 mm
MEC-1000/SW	0062510	10 m	black	Ø 6.5 mm
MEC-1500/SW	0062270	15 m	black	Ø 6.5 mm
MEC-2000/SW	0064320	20 m	black	Ø 6.5 mm

Line Cables

"HIGH QUALITY, HIGHLY FLEXIBLE"

- 3-pole XLR plug and 6.3 mm stereo plug, balanced
- Black, shielded low-noise OFC cable material



Model	Order No.	Length	Colour
MEL-102/SW	0066670	1 m	black
MEL-202/SW	0066680	2 m	black
MEL-602/SW	0066690	6 m	black

Microphone Cables

- Fitted with NEUTRIK connectors
- 1 x XLR inline jack and 1 x 6.3 mm mono plug
- Shielded low-noise OFC cable material, Ø 6.5 mm



Model	Order No.	Length	Colour	Cable diameter
MMCN-300/SW	0066760	3 m	black	Ø 6.5 mm
MMCN-600/SW	0066060	6 m	black	Ø 6.5 mm
MMCN-1000/SW	0066070	10 m	black	Ø 6.5 mm

Microphone Cables

- Fitted with 1 x XLR inline jack and 1 x 6.3 mm mono plug
- Shielded low-noise OFC cable material, Ø 6.5 mm



Model	Order No.	Length	Colour	Cable diameter
MMC-300/SW	0066750	3 m	black	Ø 6.5 mm
MMC-600/SW	0060900	6 m	black	Ø 6.5 mm

Mono Cables

- Fitted with NEUTRIK connectors
- 2 x 6.3 mm mono plug
- Shielded low-noise OFC cable material, Ø 6.5 mm



Model	Order No.	Length	Colour	Cable diameter
MCCN-300/SW	0065870	3 m	black	Ø 6.5 mm
MCCN-600/SW	0065900	6 m	black	Ø 6.5 mm
MCCN-1000/SW	0065910	10 m	black	Ø 6.5 mm

Mono Cables

- Shielding
- Fitted with 2 x 6.3 mm mono plug
- Cable outside diameter: Ø 6.5 mm

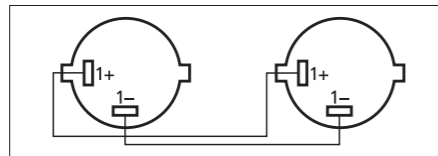
Model	Order No.	Length	Colour	Cable diameter
MCC-100/SW	0060410	1 m	black	Ø 6.5 mm
MCC-300/SW	0060470	3 m	black	Ø 6.5 mm
MCC-600/SW	0060590	6 m	black	Ø 6.5 mm



Speaker Cables

"HIGHLY FLEXIBLE"

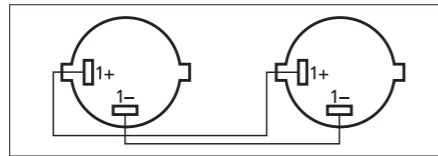
- Fitted with NEUTRIK SPEAKON plugs NL-2FX
- Highly flexible cable material



Model	Order No.	Length	Colour	Internal conductor
MSC-502/SW	0112210	2 m	black	2 x 1.5 mm ²
MSC-505/SW	0129210	5 m	black	2 x 1.5 mm ²
MSC-510/SW	0129220	10 m	black	2 x 1.5 mm ²
MSC-515/SW	0129230	15 m	black	2 x 1.5 mm ²
MSC-520/SW	0112220	20 m	black	2 x 1.5 mm ²

Speaker Cables

- Fitted with NEUTRIK SPEAKON plugs NL-2FX
- "Economy" cable material

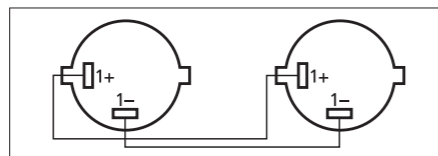


Model	Order No.	Length	Colour	Internal conductor
MSCA-502/SW	0112230	2 m	black	2 x 1.5 mm ²
MSCA-505/SW	0112240	5 m	black	2 x 1.5 mm ²
MSCA-510/SW	0112250	10 m	black	2 x 1.5 mm ²

Speaker Cables

"HIGHLY FLEXIBLE"

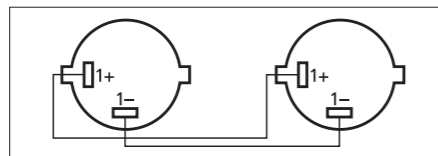
- Fitted with NEUTRIK SPEAKON plugs NL-2FX
- Highly flexible cable material



Model	Order No.	Length	Colour	Internal conductor
MSC-102/SW	0112170	2 m	black	2 x 2.5 mm ²
MSC-105/SW	0125620	5 m	black	2 x 2.5 mm ²
MSC-110/SW	0125640	10 m	black	2 x 2.5 mm ²
MSC-115/SW	0125660	15 m	black	2 x 2.5 mm ²
MSC-120/SW	0112180	20 m	black	2 x 2.5 mm ²

Speaker Cables

- Fitted with NEUTRIK SPEAKON plugs NL-2FX
- "Economy" cable material

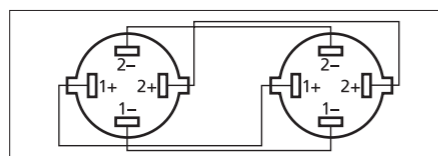


Model	Order No.	Length	Colour	Internal conductor
MSCA-610/SW	0112260	10 m	black	2 x 2.5 mm ²
MSCA-615/SW	0112270	15 m	black	2 x 2.5 mm ²
MSCA-620/SW	0112280	20 m	black	2 x 2.5 mm ²

Speaker Cables

"HIGHLY FLEXIBLE"

- Fitted with NEUTRIK SPEAKON plugs NL-4FX
- Highly flexible cable material



Model	Order No.	Length	Colour	Internal conductor
MSC-202/SW	0112190	2 m	black	4 x 2.5 mm ²
MSC-205/SW	0125680	5 m	black	4 x 2.5 mm ²
MSC-210/SW	0125700	10 m	black	4 x 2.5 mm ²
MSC-215/SW	0125720	15 m	black	4 x 2.5 mm ²

DMX Connection Cables

For transmitting digital DMX512 signals or AES/EBU signals.

- Fitted with NEUTRIK XLR plug NC-3MX and NEUTRIK XLR inline jack NC-3FX
- 2 x 0.22 mm²
- Double shielding
- Outside diameter: Ø 4.5 mm
- Impedance level: 110 Ω
- Very low capacitance: 57 pF/m



Model	Order No.	Length
CDMXN-150/SW	0112110	1.5 m
CDMXN-300/SW	0112120	3 m
CDMXN-500/SW	0112130	5 m
CDMXN-1000/SW	0112100	10 m

Speaker Cables

"HIGHLY FLEXIBLE"

- Fitted with NEUTRIK SPEAKON plug NL-2FX and 6.3 mm mono plug
- Highly flexible cable material



Model	Order No.	Length	Colour	Internal conductor
MSCN-8050/SW	0129380	5 m	black	2 x 1.5 mm ²
MSCN-8100/SW	0129390	10 m	black	2 x 1.5 mm ²
MSCN-8150/SW	0129400	15 m	black	2 x 1.5 mm ²

KATANA-M1

Order No. 1000093

An open secret ...

With the speaker KATANA-M1, you will achieve an impressive sound and design in your living room. The appealing DIY set convinces with its extraordinary open baffle design. The configuration of the set is the result of extensive, practical experience of our acoustic developers at MONACOR.

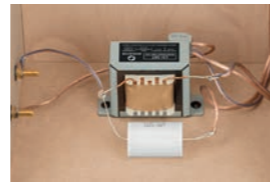
The DIY kit has been pre-assembled in an optimum way and contains all necessary components as well as assembly instructions. All you need to assemble the components is a soldering iron, a screwdriver and a side cutter.

The open rear construction allows you to achieve a realistic and impressively spatial sound. The size of the baffle and the choice of speakers are perfectly matched to the application. The wood which has been used is untreated and can be painted as required. The awareness of having created such a great sound experience with your own hands: priceless.

**The DIY kit KATANA-M1 consists of:**

- 1 x speaker baffle (beech, 20 mm multiplex)
- 1 x speaker base plate
- 2 x side wall
- 1 x hi-fi full range speaker SPX-31M, 20 W, 8 Ω
- 1 x pair of speaker pole terminals BP-500G
- 2 x hi-fi bass-midrange speaker SPM-205/8, 70 W, 8 Ω
- 1 x MKT film capacitor MKTA-220, 22 µF, 250 V
- 1 x transformer core coil LSI-56T, 5.6 mH
- 3 m speaker cable SPC-115CA
- 4 x rubber foot (from the set HF-10)
- Wood glue, solder, mounting screws, assembly instructions

For full specifications, please refer to individual items.

**DN-1218PAX**

Order No. 0125210

2-way crossover network for 8 Ω

- Highest power rating version for PA
- Optimum filter effect for typical PA bass speakers of 30 cm and 38 cm

Model	DN-1218PAX
General Information	2-way
Output impedance	8 Ω
Crossover frequency	2,500 Hz
Slope/oct.	12 dB/18 dB
Max. input power	600 W
Dimensions	120 x 60 x 132 mm
Weight	1.065 kg

**DN-4**

Order No. 0120200

3-way crossover network for 8 Ω

- Air core coils
- High-quality bipolar electrolytic capacitors

Model	DN-4
General Information	3-way
Output impedance	8 Ω
Crossover frequency	650/6,000 Hz
Slope/oct.	12/6 dB
Max. input power	100 W
Dimensions	120 x 23 x 70 mm
Weight	0.315 kg

**CT-193**

Order No. 1000787

**Speaker DIY kit CT-193**

The Speaker DIY kit CT-193 "Cheap Trick" is a pair of high-quality bass reflex bookshelf speaker systems for which the tried and tested hi-fi full range speaker SPH-60X from MONACOR is used. This full range speaker convinces by its amazing bass reproduction and a wide range (50-20,000 Hz). Thus, it provides optimum sound and performance.



The DIY kit has been pre-assembled in an optimum way and contains all necessary components as well as assembly instructions. All you need to assemble the components is a soldering iron, a screwdriver and a side cutter.

The wood which has been used is untreated and can be painted as required.

**SP-8/150PRO**

Order No. 0100710

**Compact PA bass speaker, subwoofer, 150 W, 8 Ω**

- 20 cm (8") bass speaker and subwoofer of high power capability
- Heat-resistant voice coil and ventilated drive system
- Extra long excursion for a deep bass reproduction of high volumes
- Progressive cone suspension for a high operating reliability



- Robust diecast aluminium basket
- Ideally suited for 2-way systems and compact subwoofers

SP-2RDP

Order No. 0100370

Miniature flush-mount speakers, 8 Ω

- For general applications in models, intercom systems, miniature radios

**SP-15**

Order No. 0100310

**Special speaker, 10 W, 8 Ω**

- All-plastic cone with hard suspension
- Moisture-proof
- Special version for signal sounds of alarm systems
- Operating temperature range: -25 °C to +70 °C

**SP-252E**

Order No. 0103990

**Hi-fi bass-midrange speaker, 75 W, 4 Ω**

- All-round speaker
- Foam surround
- Replacement speaker for closed cabinets



Model	SP-8/150PRO	SP-2RDP	SP-15	SP-252E
Impedance (Z)	8 Ω	8 Ω	8 Ω	4 Ω
Frequency range	f3-3,000 Hz	450-15,000 Hz	f3-8,000 Hz	f3-6,000 Hz
Resonant frequency (fs)	56 Hz	-	430 Hz	42 Hz
Power rating (RMS)	150 W	0.25 W	10 W	75 W
Peak music power output (MAX)	300 W	-	15 W	150 W
SPL	93 dB/W/m	power capability: < 1 W	96 dB/W/m	94 dB/W/m
Mounting cutout	Ø 185 mm	Ø 45 mm	Ø 79 mm	Ø 232 mm
Dimensions	Ø 210 mm x 100 mm	Ø 50 mm x 19 mm	85 x 85 x 39 mm	Ø 255 mm x 110 mm
Colour	black	black	transparent	black
Weight	2.52 kg	0.04 kg	0.355 kg	2.3 kg

SAM-2

Order No. 0320670

**Active subwoofer module, 200 W**

- High-power active module
- 24 dB subsonic filter, variable low-pass filter: 50-150 Hz (18 dB)
- Semiparametric bass boost (variable 30-50 Hz midrange with boost up to 6 dB, continuously adjustable)
- Contin. adjustable phase control 0-180° for uncompromising room correction and an optimum set-up of your speakers
- Variable high-pass filter: 50-150 Hz (12 dB) for equalizing



- the bass frequencies of the satellite amplifier and the satellite speakers
- Ground lift switch from the studio technology to prevent hum interference

SAM-200D

Order No. 0320780

**Class D active subwoofer module, 200 W at 4 Ω**

- High-performance active module in class D technology
- Variable low-pass filter: 40-200 Hz (18 dB)
- Continuously adjustable phase control 0-180° for perfectly matching it to the main speakers
- Line input, par. line output
- Integrated bass boost of approx. 3 dB at 40 Hz



- High power reserves

SAM-300D

Order No. 0320790

**Class D active subwoofer module, 300 W at 4 Ω**

- High-performance active module in class D technology
- Variable low-pass filter: 40-200 Hz (18 dB)
- Continuously adjustable phase control 0-180° for perfectly matching it to the main speakers
- Line input, par. line output
- Integrated bass boost of approx. 3 dB



- at 40 Hz
- High-level inputs for parallel connection to the speaker cables
- High power reserves

SAM-500D

Order No. 0320800

**Class D active subwoofer module, 500 W at 4 Ω**

- High-performance active module in class D technology
- Variable low-pass filter: 40-200 Hz (18 dB)
- Continuously adjustable phase control 0-180° for perfectly matching it to the main speakers
- Integr. bass boost of approx. 3 dB at 40 Hz



- Line input, par. line output
- Very high power reserves for bass speakers

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All JTS products can also be found online at:
www.jts-europe.com

JSS-20/5

Order No. 0257200

Dynamic hand-held UHF PLL transmitter

- Dynamic microphone cartridge (cardioid polar pattern) with minimised feedback susceptibility as well as suppression of handling noise/structure-borne noise
- Bandwidth: 75 MHz
- 15 groups, each with up to 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (-15 dB to +15 dB)
- Lock function/mute function
- 5-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

Model	JSS-20/5
Polar pattern	cardioid
System	dynamic
Carrier frequency range	530-605 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	> 20 h
Audio frequency range	50-18,000 Hz
Dimensions	Ø 50 mm x 260 mm
Weight	340 g

- Supplied with robust transport case, stand clamp and 8 ID caps

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



UF-20S/5

Order No. 0257220

Single-channel true diversity UHF PLL wideband receiver

- Bandwidth: 75 MHz
- 15 groups, each with up to 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- REMOSET technology for receiver/transmitter synchronisation
- Auto-scan function
- Pilot tone and noise squelch
- Equalizer function
- LED for indicating RF level and AF level
- Backlit display for indicating battery status of the transmitter, frequency setup, active antenna
- Metal housing

Model	UF-20S/5
Description	wireless receiver
Carrier frequency range	530-605 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	> 108 dB
Audio signal receiver	100 mV XLR, 100 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	212 x 44 x 214 mm
Weight receiver	1.4 kg
Connections receiver	XLR, bal., 6.3 mm jack, bal.

- Power supply for optional antenna booster UB-9001 directly via antenna inputs

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



UF-20R/5

Order No. 0257210



2-channel true diversity UHF PLL wideband receiver

- Bandwidth: 75 MHz
- 15 groups, each with 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- RF output and mains voltage output for easily cascading up to 10 x UF-20R/5 receiver without additional splitter
- REMOSET technology for receiver/transmitter synchronisation
- Auto-scan function
- Pilot tone and noise squelch
- Equalizer function
- LED for indicating RF level and AF level
- Backlit display for indicating battery status of the transmitter, frequency setup, active antenna
- Metal housing

Model	UF-20R/5
Description	wireless receiver
Carrier frequency range	530-605 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.5%
Dynamic range	> 108 dB
Audio signal receiver	100 mV XLR, 100 mV jack
Power supply receiver	~ 100-240 V/50-60 Hz/25 VA
Dimensions receiver	480 x 44 x 214 mm
Weight receiver	2.9 kg
Connections receiver	2 x XLR, bal., 2 x 6.3 mm jack, bal.

- Power supply for optional antenna booster UB-9001 directly via antenna inputs

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



UF-20TB/5

Order No. 0257230

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 75 MHz
- 15 groups, each with up to 63 compatible preset channels
- 64 channels in 6 groups from 3,000 selectable individual frequencies can be stored in user presets
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (-18 dB to +12 dB)
- Lock function
- 5-level display for indicating battery status and low battery alert, backlit LCD

Model	UF-20TB/5
Description	pocket transmitter
Carrier frequency range	530-605 MHz
Audio frequency range	50-18,000 Hz
Operating time	> 20 h
Transmitting power	10/50 mW
Power supply transmitter	2 x batt. AA size (not supplied)
Dimensions transmitter	62 x 170 x 23 mm
Weight transmitter	90 g
Connections transmitter	4-pole mini XLR

- Switchable transmitting power

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



CH-8

Order No. 0259410

Transport case with integrated charging function, for transmitters UF-20TB/5, JSS-20/5, JSS-4B/5, R-4TBM/5 and RU-G3TB/5.

- For simultaneously charging rech. batteries of 8 devices
- Average charging time, depending on capacity and condition of rechargeable batteries used: approx. 3 hours
- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge
- Power is provided via supplied power supply
- Dimensions: 357 x 294 x 433 mm

Supplied w/o devices.

Model	CH-8
Description	transport case with integrated charging function
Colour	black
Suitable for	transmitters UF-20TB/5, JSS-20/5, JSS-4B/5, R-4TBM/5, RU-G3TB/5
Power supply	via encl. power supply
Dimensions	357 x 294 x 433 mm
Weight	11.6 kg



CH-2

Order No. 0257240

Charging station, for transmitters UF-20TB/5, JSS-20/5, JSS-4B/5, R-4TBM/5 and RU-G3TB/5.

- For simultaneously charging rech. batteries of 2 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 3 hours
- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection

Model	CH-2
Description	charging station
Colour	black
Suitable for	transmitters UF-20TB/5, JSS-20/5, JSS-4B/5, R-4TBM/5, RU-G3TB/5
Power supply	via enclosed power supply
Dimensions	165 x 72 x 99 mm
Weight	315 g

- Protection against overload, short-circuit and deep discharge
- Power is provided via enclosed power supply
- Dimensions: 165 x 72 x 99 mm



MA-935

Order No. 0236850

Adapter ring

- For mounting dynamic microphone cartridges from Sennheiser to hand-held UHF PLL transmitters JSS-20/5 and JSS-4B/5
- Aluminium version
- Screw thread



RTF-UF20

Order No. 0236880



BNC antenna cable set

- For mounting antennas to the front panel of the UHF PLL wideband receiver UF-20R/5 or R-4/5
- 2 x 60 cm antenna cable with BNC plug and BNC inline jack



JSS-4B/5

Order No. 0259390

Dynamic hand-held UHF PLL transmitter

- Dynamic microphone cartridge (cardioid polar pattern) with wide dynamic range
- Aluminium housing
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (-15 dB to +15 dB)
- Lock/mute function
- 4-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

Model	JSS-4B/5
Transmission method	wireless
Polar pattern	cardioid
System	dynamic
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	> 20 h
Audio frequency range	50-18,000 Hz
Max. sound pressure	150 dB
Housing material	aluminium
Dimensions	Ø 50 mm x 253 mm
Weight	335 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



R-4TBM/5

Order No. 0259841

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (±15 dB)
- Lock function
- 6-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

Model	R-4TBM/5
Description	pocket transmitter
Carrier frequency range	506-542 MHz
Audio frequency range	50-18,000 Hz
Operating time	> 20 h
Transmitting power	10/50 mW
Operating range	120 m
Power supply transmitter	2 x batt. AA size (not supplied)
Dimensions transmitter	62 x 80 x 23 mm
Weight transmitter	95 g
Connections transmitter	4-pole mini XLR

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



R-4THA/5

Order No. 0259847

Hand-held UHF PLL transmitter, with condenser cartridge.

- Condenser microphone cartridge (cardioid polar pattern)
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity (±15 dB)
- Lock function/mute function
- 4-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power

Model	R-4THA/5
Transmission method	wireless
Polar pattern	cardioid
System	condenser
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	> 20 h
Audio frequency range	50-18,000 Hz
Max. sound pressure	140 dB
Dimensions	Ø 50 mm x 253 mm
Weight	260 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



R-4/5

Order No. 0259400



4-channel diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- RF output and mains voltage output for easily cascading up to 10 x R-4/5 receiver without additional splitter
- REMOSET technology for receiver/transmitter synchronisation
- Auto-scan function
- Pilot tone squelch and noise mute
- LED for indicating RF level and AF level
- Backlit display for indicating battery status of the transmitter, frequency setup, active antenna
- Switchable mic/line for single outputs and mixed outputs
- Metal housing

Model	R-4/5
Description	wireless receiver
Carrier frequency range	506-542 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 320 mV/600 Ω jack
Power supply receiver	~ 100-240 V/50-60 Hz
Dimensions receiver	485 x 44 x 230 mm
Weight receiver	2.65 kg
Connections receiver	4 x XLR, bal., 1 x XLR, bal., 1 x 6.3 mm jack (mixed out)

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



RU-G3TH/5

Order No. 0259843

Hand-held UHF PLL transmitter with condenser cartridge

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 comp. preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Pilot tone squelch and noise mute
- Lock function/mute function
- Special design to reduce handling noise, structure-borne noise and acoustic feedback
- Backlit LCD for indicating battery status and low battery alert, switchable transmitting power

Model	RU-G3TH/5
Transmission method	wireless
Polar pattern	cardioid
System	condenser
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Audio frequency range	50-18,000 Hz
Max. sound pressure	140 dB
Dimensions	Ø 50 mm x 253 mm
Weight	780 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



RU-G3TB/5

Order No. 0259842

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Backlit LCD for indicating battery status and low battery alert
- Switchable transmitting power

Model	RU-G3TB/5
Description	pocket transmitter
Carrier frequency range	506-542 MHz
Audio frequency range	50-18,000 Hz
Operating time	12 h
Transmitting power	10/50 mW
Power supply transmitter	2 x battery AA size, alkaline (not supplied)
Dimensions transmitter	62 x 80 x 23 mm
Weight transmitter	300 g
Connections transmitter	4-pole mini XLR

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



RU-901G3/5

Order No. 0259844

True diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute
- LED for indicating RF level and AF level
- Backlit display with status indications, e.g. group/channel, frequency, battery, antenna A/B

Model	RU-901G3/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	50-18,000 Hz
THD	< 0.6%
Dynamic range	105 dB
Audio signal receiver	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	212 x 38 x 144 mm
Weight receiver	1.02 kg
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



G3CH-2

Order No. 0259839

Charging station, for transmitters RU-G3TH/5, RU-G3TB/5, R-4TBM/5 and UF-20TB/5.

- For simultaneously charging rech. batteries of 2 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 5 hours
- Each slot with LED for indicating a fault and battery charging status
- Protection against overload, short-circuit and deep discharge

Model	G3CH-2
Description	charging station
Colour	black
Suitable for	transmitters RU-G3TH/5, RU-G3TB/5, R-4TBM/5, UF-20TB/5
Power supply	via encl. power supply
Dimensions	165 x 72 x 99 mm
Weight	323 g

- Mechanical reverse polarity protection
- Power is provided via enclosed power supply
- Dimensions: 165 x 72 x 99 mm

Supplied w/o devices



MH-8800G/5

Order No. 0255450

Dynamic hand-held UHF PLL transmitter

- Preset technology for easy configuration (64 channels)
- Pilot tone technology
- Adjustable sensitivity (0 dB to -30 dB)
- Lock function
- Special design to reduce handling noise, structure-borne noise and acoustic feedback
- Robust body
- Integrated LCD with battery status indication
- Supplied with robust transport case, colour-coded ID rings and stand clamp

Model	MH-8800G/5
Polar pattern	hypercardioid
System	dynamic
Carrier frequency range	518-542 MHz
Transmitting power	50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	> 25 h
Audio frequency range	50-16,000 Hz
Dimensions	Ø 53 mm x 245 mm
Weight	370 g

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



PT-920BG/5

Order No. 0255490

UHF PLL pocket transmitter with lavalier microphone

- Suitable for instrument microphones of the CX series and headband microphones or lavalier microphones from the CX/CM series
- Supplied with lavalier microphone CM-501
- 64 preset channels
- Pilot tone technology
- Continuously adjustable gain
- Lock function
- Integrated LCD for indicating battery status and transmission data
- Supplied with belt bag and robust transport case

Model	PT-920BG/5
Description	pocket transmitter
Carrier frequency range	518-542 MHz
Audio frequency range	40-18,000 Hz
Operating time	> 30 h
Transmitting power	10 mW
Power supply transmitter	2 x batt. AA size, alkaline (not supplied)
Dimensions transmitter	70 x 190 x 30 mm
Weight transmitter	130 g
Connections transmitter	4-pole mini XLR

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



US-903DCPRO/5

Order No. 0255570

2-channel diversity UHF PLL receiver

- 2 x 64 channel presets in four groups
- Parallel operation of up to 8 frequencies (equivalent to 4 x 2-channel system)
- Pilot tone squelch and adjustable noise squelch
- Lock function
- Backlit LCD for indicating status, e.g. for channel/group assignment and RF level/AF level
- Integrated charging slot for 4 x rechargeable NiMH battery AA size with indication of operating status
- Robust desktop metal housing
- Power supply for optional antenna booster UB-9001 directly via antenna inputs
- 482 mm (19") rack installation with supplied mounting brackets

Model	US-903DCPRO/5
Description	receiver unit
Carrier frequency range	518-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	40 mV XLR, 250 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	420 x 50 x 230 mm
Weight receiver	2.25 kg
Connections receiver	2 x XLR, bal., 1 x 6.3 mm jack, unbal.

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



RU-8011DB/5

Order No. 0259200

Diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute

Model	RU-8011DB/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	50-16,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 185 mm
Weight receiver	457 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.



RU-8011D/5

Order No. 0259848

Diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels (114 channels)
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Auto-scan function
- Pilot tone squelch and noise mute

Model	RU-8011D/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	60-15,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 180 mm
Weight receiver	440 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.



RU-8012DB/5

Order No. 0259420

2-channel diversity UHF PLL wideband receiver

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute

Model	RU-8012DB/5
Description	receiver unit
Carrier frequency range	506-542 MHz
Audio frequency range	50-16,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 320 mV/600 Ω jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 185 mm
Weight receiver	508 g
Connections receiver	2 x XLR, bal., 2 x 6.3 mm jack, unbal.



850CH-2

Order No. 0259370

Charging station, for transmitters RU-850LTH/5, RU-850LTB/5 and R-4THA/5.

- For simultaneously charging rech. batteries of 2 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 5 hours
- Each slot with LED for indicating a fault and battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge
- Power is provided via enclosed power supply

Supplied w/o devices.

Model	850CH-2
Description	charging station
Colour	black
Suitable for	transmitters RU-850LTH/5, RU-850LTB/5, R-4THA/5
Power supply	via encl. power supply
Dimensions	165 x 72 x 99 mm
Weight	329 g



RU-850LTH/5

Order No. 0259560

Dynamic hand-held UHF PLL microphone transmitter

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Adjustable sensitivity (± 15 dB)
- Lock function/mute function
- 5-level display for indicating battery status and low battery alert, backlit LCD

Model	RU-850LTH/5
Transmission method	wireless
Polar pattern	cardioid
System	dynamic
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	30 h
Audio frequency range	50-16,000 Hz
Max. sound pressure	148 dB
Dimensions	Ø 51 mm x 269 mm
Weight	242 g

- Switchable transmitting power



RU-850LTB/5

Order No. 0259360

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- Bandwidth: 36 MHz
- 6 groups, each with up to 22 comp. preset channels
- 1,441 selectable individual frequencies
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Selectable sensitivity (± 15 dB); additional 20 dB attenuation can be activated as required

Model	RU-850LTB/5
Description	pocket transmitter
Carrier frequency range	506-542 MHz
Audio frequency range	50-16,000 Hz
Operating time	30 h
Transmitting power	10/50 mW
Power supply transmitter	2 x batt. AA size, alkaline (not supplied)
Dimensions transmitter	62 x 97 x 20 mm
Weight transmitter	76 g
Connections transmitter	4-pole mini XLR

- Lock/mute function
- 5-level display for indicating battery status and low battery alert, backlit LCD
- Switchable transmitting power



RU-850TH/5

Order No. 0259851

Dynamic hand-held UHF PLL microphone transmitter

- Bandwidth: 36 MHz
- 6 groups, each with 22 compatible preset channels (114 channels)
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Sensitivity adjustment (± 15 dB) and transmitting power (10/50 mW) can be configured via receiver
- Mute function, low battery alert
- Special design to reduce handling noise, structure-borne noise and acoustic feedback

Model	RU-850TH/5
Transmission method	wireless
Polar pattern	cardioid
System	dynamic
Carrier frequency range	506-542 MHz
Transmitting power	10/50 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	30 h
Audio frequency range	60-15,000 Hz
Max. sound pressure	148 dB
Dimensions	Ø 51 mm x 269 mm
Weight	235 g



RU-850TB/5

Order No. 0259849

UHF PLL pocket transmitter

- Suitable for combination with a headband microphone or an instrument microphone with 4-pole mini XLR connector
- 6 groups, each with up to 22 compatible preset channels (114 channels)
- REMOSET ULTRASONIC technology for receiver/transmitter synchronisation
- Sensitivity (± 15 dB), additional 20 dB attenuation and transmitting power (10/50 mW) can be configured via receiver

Model	RU-850TB/5
Description	pocket transmitter
Carrier frequency range	506-542 MHz
Audio frequency range	60-15,000 Hz
Operating time	30 h
Transmitting power	10/50 mW
Power supply transmitter	2 x batt. AA size, alkaline (not supplied)
Dimensions transmitter	62 x 97 x 20 mm
Weight transmitter	69 g
Connections transmitter	4-pole mini XLR

- Bandwidth: 36 MHz
- Mute function
- Low battery alert



There are restrictions or requirements in the EU!

Please read the notes on wireless systems in the section "IMPORTANT INFORMATION"!

E-7TH/5

Order No. 0259618

Hand-held UHF PLL condenser transmitter

- 16 channels
- Mute function
- 7-segment channel indicator
- LED indicators for power, battery status and mute

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	E-7TH/5
Polar pattern	hypercardioid
System	condenser
Carrier frequency range	506-542 MHz
Transmitting power	10 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Audio frequency range	50-16,000 Hz

**E-7TB/5**

Order No. 0259621

UHF PLL pocket transmitter with lavalier microphone

- Suitable for instrument microphones of the CX series as well as headband microphones of the CX/CM series
- Supplied with lavalier microphone CM-501
- 16 channels
- Mute function
- 7-segment channel indicator
- LED indicators for power, battery status and mute

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	E-7TB/5
Description	pocket transmitter
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
Operating time	> 30 h
Transmitting power	10 mW
Power supply transmitter	2 x batt. AA size, alkaline (not supplied)
Connections transmitter	4-pole mini XLR

**E-7HHSET/5**

Order No. 0259614

UHF PLL audio transmission set,
consisting of:

- Diversity UHF PLL receiver E-7R/5
 - Hand-held UHF PLL condenser transmitter E-7TH/5
- Carrier frequency range: 504-542 MHz
For specifications, please refer to the individual items.

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

**E-7BPSET/5**

Order No. 0259612

UHF PLL audio transmission set,
consisting of:

- Diversity UHF PLL receiver E-7R/5
- UHF PLL pocket transmitter with lavalier microphone E-7TB/5

Carrier frequency range: 504-542 MHz
For specifications, please refer to individual items.

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

**E-7HHSETD/5**

Order No. 0259613

UHF PLL audio transmission set,
consisting of:

- 2-channel diversity UHF PLL receiver E-7DU/5
- Hand-held UHF PLL condenser transmitter (set of 2) E-7THD/5

Carrier frequency range: 504-542 MHz
For specifications, please refer to the individual items.

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

**E-7BPSETD/5**

Order No. 0259611

UHF PLL audio transmission set,
consisting of:

- 2-channel diversity UHF PLL receiver E-7DU/5
- UHF PLL pocket transmitter with lavalier microphone (set of 2) E-7TBD/5

Carrier frequency range: 504-542 MHz
For specifications, please refer to individual items.

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



MH-850/1

Order No. 0254460

Dynamic hand-held UHF PLL microphone transmitter

- 16 channels
- Pilot tone technology
- Special design to reduce handling noise, structure-borne noise and acoustic feedback
- Integrated low battery alert

Model	MH-850/1
Polar pattern	hypercardioid
System	dynamic
Carrier frequency range	863-865 MHz
Transmitting power	10 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	25 h max.
Audio frequency range	50-16,000 Hz
Dimensions	Ø 55 mm x 260 mm
Weight	250 g



Licence-free in the EU.

US-8001D/1

Order No. 0254480

Diversity UHF PLL receiver

- 16 channels
- Parallel operation of up to 4 intermodulation-free frequencies
- Pilot tone squelch and fixed noise squelch
- LEDs for indicating diversity status and AF level
- 482 mm (19") unit holder DR-900SET for 1 RU rack installation of 2 x US-8001D/1 is available at option

Model	US-8001D/1
Description	receiver unit
Carrier frequency range	863-865 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	40 mV XLR, 150 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 170 mm
Weight receiver	455 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.



Licence-free in the EU.

US-8002D/1

Order No. 0254490

Diversity UHF PLL receiver

- 2 x 16 channels
- Parallel operation of up to 4 intermodulation-free frequencies
- Pilot tone squelch and fixed noise squelch
- LEDs for indicating diversity status and AF level
- 482 mm (19") unit holder DR-900SET for 1 RU rack installation of 2 x US-8002D/1 is available at option

Model	US-8002D/1
Description	receiver unit
Carrier frequency range	863-865 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Audio signal receiver	40 mV XLR, 150 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 170 mm
Weight receiver	500 g
Connections receiver	2 x XLR, bal., 1 x 6.3 mm jack, unbal.



Licence-free in the EU.

PT-850B/1

Order No. 0254470

UHF PLL pocket transmitter with lavalier microphone

- Suitable for instrument microphones of the CX series as well as headband microphones of the CX/CM series
- Supplied with lavalier microphone CM-501
- 16 preset channels
- Continuously adjustable gain
- Dual LED for indicating battery status
- Supplied with belt bag

Model	PT-850B/1
Description	pocket transmitter
Carrier frequency range	863-865 MHz
Audio frequency range	40-18,000 Hz
Operating time	25 h max.
Transmitting power	10 mW
Power supply transmitter	2 x batt. AA size, alkaline (not supplied)
Dimensions transmitter	70 x 190 x 30 mm
Weight transmitter	120 g
Connections transmitter	4-pole mini XLR



Licence-free in the EU.

US-8001DBGY/5

Order No. 0259846

UHF PLL audio transmission set

Consisting of:

- Diversity UHF PLL receiver US-8001DB/5
- Headband microphone with integrated 16-channel PLL transmitter UT-16HW5

For specifications, please refer to individual items.

Model	US-8001DBGY/5
Description	UHF PLL audio transmission set
Carrier frequency range	518-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6%
Dynamic range	> 105 dB
Power supply transmitter	1 x 1.5 V AAA size (not supplied)
Weight transmitter	50 g
Audio signal receiver	40 mV XLR, 150 mV jack
Power supply receiver	via encl. power supply
Dimensions receiver	210 x 40 x 181 mm
Weight receiver	565 g
Connections receiver	1 x XLR, bal., 1 x 6.3 mm jack, unbal.

There are restrictions or requirements within the EU!**Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!**

UDA-49A

Order No. 0150630

Active UHF directional antenna

- Improved reception and a larger transmission range of 470-960 MHz
- Rejects unwanted RF signals, minimises signal loss in multipath receptions and reduces interference susceptibility
- Reliable operation also for short-term outdoor use
- Switchable gain (3 dB/10 dB) to avoid power loss
- Power supply via UHF PLL receivers of the US/IN series or the active antenna splitter UA-960
- Ideally suited for mobile applications, can be mounted onto any microphone stand with a thread of 9 mm (3/8") or 16 mm (5/8")

Model	UDA-49A
Frequency range	470-960 MHz
Aperture angle	100°
Antenna gain	≥ 10 dB
Power supply	≠ 12 V/50 mA, remote power supply (external power supply)
Impedance level	50 Ω
Support	9 mm (3/8") or 16 mm (5/8")
Dimensions	360 x 350 x 36 mm (sheet thickness: 1.7 mm)
Weight	350 g
Connection	BNC jack

2 x UDA-49A required for diversity reception.



UDA-49P

Order No. 0150640

Passive UHF directional antenna

- For wireless microphone systems (reception antenna) or for wireless in-ear monitoring systems, e.g. SIEM-111/5 from JTS (transmitting antenna)
- Improved reception and a larger transmission range of 470-960 MHz
- Rejects unwanted RF signals, minimises signal loss in multipath receptions and reduces interference susceptibility
- Reliable operation also for short-term outdoor use
- BNC connection (for UHF PLL receivers of the US/IN series or active antenna splitter UA-960)
- Ideally suited for mobile applications, can be mounted onto any microphone stand with a thread of 9 mm (3/8") or 16 mm (5/8")

Model	UDA-49P
Frequency range	470-960 MHz
Aperture angle	100°
Antenna gain	≥ 10 dB
Impedance level	50 Ω
Support	9 mm (3/8") or 16 mm (5/8")
Dimensions	360 x 350 x 36 mm (sheet thickness: 1.7 mm)
Weight	350 g
Connection	BNC jack

2 x UDA-49P required for diversity reception.



ANT-49

Order No. 0150810

Passive UHF wideband omnidirectional antenna

- For wireless microphone systems or wireless in-ear monitoring systems
- Consistent RF power supply, independent of direction
- Ideally suited for mobile applications, can be mounted onto microphone stand with 9 mm (3/8") or 16 mm (5/8") thread

Model	ANT-49
Frequency range	470-960 MHz
Aperture angle	360°
Antenna gain	2-4 dB
Impedance level	50 Ω
Support	9 mm (3/8") or 16 mm (5/8")
Dimensions	130 x 255 x 32 mm (sheet thickness: 2 mm)
Weight	205 g
Connection	BNC jack

2 x ANT-49 required for diversity reception.



USP-900

Order No. 0150650

Passive UHF antenna splitter/UHF combiner

- For minimising the great effort and expense of antennas for wireless receiver systems or transmission systems
- Splits one antenna input signal to two antenna output signals
- 2 x USP-900 required for commonly supplying two diversity receivers set up with two antennas respectively

Model	USP-900
Frequency range	10-1,000 MHz
Launch attenuation	2 dB
Decoupling	20 dB
Impedance level	50 Ω
Connection	3 x BNC jack
Dimensions	72 x 24 x 56 mm
Weight	63 g

- DC suppression
- Can also be used as a combiner in order to operate 2 x SIEM-111/5 with one antenna



UA-960

Order No. 0150820



Active antenna splitter

- For operating up to four UHF PLL receivers of the UF/US/IN series with one pair of antennas
- With this device, it is not longer required to use the respective antennas and plug-in power supplies of the individual devices
- Frequency range: 470-960 MHz
- Power supply via four low-voltage outputs (4 x = 12 V/1 A max.)

- Each antenna to be connected via BNC jacks
- Additional connection for cascading further antenna splitters
- Supplied with suitable connection cables
- Power supply for optional antenna booster UB-9001 directly via UA-960 (can be deactivated internally)



UC-900

Order No. 0150580



4-way antenna combiner

- Range of applications:
 - Signals of up to four in-ear monitoring transmitters, e.g. SIEM-111/..., can be sent via one antenna
 - Signals of up to four antennas which are positioned at a certain distance from each other can be combined for extending the reception area of a stationary receiver
- Frequency range: 470-960 MHz

- Gain: 0 dB, ±2 dB
- Maximum RF power for each input: +20 dBm (100 mW)
- Low-voltage outputs: 4 x = 12 V, 1 A max. for supplying operating voltage directly to connected transmitter
- Each antenna to be connected via BNC jacks
- Supplied with suitable connection cables



USP-124

Order No. 0150860

4-way antenna splitter

- For operating up to four antennas with one transmitter (e.g. SIEM-111/5)
- Frequency range: 470-960 MHz
- Gain: 0 dB, ± 2 dB
- All connections via BNC jacks



UB-9001

Order No. 0150830

Antenna booster, for UHF PLL receivers.

- Power supply via UHF PLL receivers of the UF/US series and IN series or via active antenna splitter UA-960
- DC feed-through output for cascading up to 2 x UB-9001 max.
- Ideally suited for mobile applications, can be mounted onto microphone stand with 16 mm (5/8") thread

Diversity operation: one booster is required for each antenna connected!



RP-900

Order No. 0230540

Mounting plate, for offset antenna mounting.

- Black lacquered metal version
- Dimensions: 227 x 44 x 1.6 mm, 1 RU



RTF-20

Order No. 0252060

Coaxial antenna cable, with mounting plate.

- 2 x 20 m RG-58U coaxial cable with 2 x BNC plug each, e.g. for connecting offset antennas to respective UHF PLL receivers of the UF/US/IN series or in-ear monitoring transmitter SIEM-111/R
- Mounting plate (1 RU) with punched holes for two supplied BNC bushings

Model	RTF-20
Intended use	coaxial antenna cable
Connectors	2 x BNC plug
Length	20 m
Colour	black
Cable diameter	5 mm
Shielding value	20 dB @ 100 MHz
Impedance	50 Ω
Attenuation	7 dB
Special feature	1 RS mounting plate: 227 x 44 x 1.6 mm
Other features	frequency range: 10-1,000 MHz



RTF-2U

Order No. 0230530



Mounting bracket set, for offset antenna mounting.

- For 482 mm (19") rack installation
- Consisting of:
 - 2 x mounting bracket
 - 2 x BNC jack
 - 2 x 40 cm antenna cable with BNC plug

Model	RTF-2U
Size	for 482 mm (19")
Colour	black
Weight	105 g (pair)



DR-900SET

Order No. 0244770

482 mm (19", 1 RU) device holder

- For installing up to two half-rack sized receivers into one 482 mm (19") rack
- Partly profiled sheet steel for on-the-road applications and secure support
- The supplied 241 mm (9.5") rack panel with screws can cover the unrequired mounting space



RTF-1

Order No. 0230550

Coaxial antenna cable, with mounting plate.

- 2 x 0.6 m RG-58U coaxial cable with 2 x BNC plug each, e.g. for connecting offset antennas to respective UHF PLL receivers of the UF/US/IN series or in-ear monitoring transmitter SIEM-111/R



RTF-3

Order No. 0230560



BNC antenna cable

- 50 Ω
- 2 x BNC plug
- Length: 2 x 3 m
- 2 x BNC bushing



RM-901

Order No. 0254940



482 mm (19") mounting brackets

- For mounting CS-4, CS-8, SIEM-111/... (transmitter), TG-10STX/1 or UF-20S/5 into a rack cabinet
- Metal version



RM-10SET

Order No. 0254950

482 mm (19") mounting set

- For mounting two SIEM-111/... (transmitter), UF-10R/12 or UF-20S/5 into a rack cabinet
- Consisting of two metal mounting brackets and two aluminium connecting rails



SIEM-111/5

Order No. 0255510

MPX stereo UHF PLL in-ear monitoring system

- Wireless monitor system with excellent sound characteristics
- Individual monitor mix in stereo mode or mono/mix mode
- 64 preset channels in 4 groups of 16 channels each
- 961 frequencies
- Up to 14 wireless monitor ways can be used for an intermodulation-free parallel operation
- Pilot tone technology and noise squelch

Model	SIEM-111/5
Description	in-ear monitoring system
Carrier frequency range	518-542 MHz
Audio frequency range	50-15,000 Hz
Total weight	2.33 kg
Transmitting power	10 mW
Power supply transmitter	~ 100-240 V via integrated switch-mode power supply
Dimensions transmitter	212 x 44 x 239 mm
Weight transmitter	1.3 kg
Connections transmitter	2 x combo input, 2 x loop output, bal. via 6.3 mm jack
Power supply receiver	2 x batt. AA size, alkaline (not supplied)
Dimensions receiver	74 x 196 x 34 mm
Weight receiver	300 g
Connections receiver	3.5 mm stereo jack



SIEM-111/R5

Order No. 0255520

UHF PLL in-ear monitoring receiver, as an addition to the in-ear monitoring system SIEM-111/5.

- Excellent audio characteristics
- Pilot tone technology
- Peak limiter, can be activated as required
- Individual monitor mix in stereo mode or mono/mix mode
- Ear-selective level matching possible via balance adjustment

Model	SIEM-111/R5
Description	in-ear monitoring receiver
Carrier frequency range	518-542 MHz
Audio frequency range	50-15,000 Hz
THD	0.8%
Dynamic range	> 80 dB
Operating time	> 8 h
Power supply receiver	2 x batt. AA size, alkaline (not supplied)
Dimensions receiver	74 x 196 x 34 mm
Weight receiver	202 g
Connections receiver	3.5 mm stereo jack



SIEM-2/5

Order No. 0255530

Mono UHF PLL in-ear monitoring system

- 16 preset channels
- Integrated limiter
- Loop outputs on the rear panel
- Switchable transmitting power
- Supplied with high-quality in-ear earphones IE-1
- 482 mm (19") rack installation

Model	SIEM-2/5
Description	in-ear monitoring system
Carrier frequency range	518-542 MHz
Audio frequency range	40-18,000 Hz
Operating time	> 8 h
Transmitting power	10/50 mW
Power supply transmitter	~ 100-240 V via encl. plug-in power supply
Dimensions transmitter	210 x 42 x 180 mm
Weight transmitter	460 g
Connections transmitter	2 x combo (in), 2 x 6.3 mm jack, bal. (loop out)
Power supply receiver	2 x batt. AA size, alkaline (not supplied)
Dimensions receiver	75 x 160 x 32 mm
Weight receiver	90 g
Connections receiver	6.3 mm stereo jack



SIEM-2/R5

Order No. 0255540

Mono UHF PLL in-ear monitoring receiver, as an addition to in-ear monitoring system SIEM-2/5.

- Switchable limiter
- Separate adjustable mic/line input
- Phantom power supply: 4 V
- Low battery alert
- Belt clip

Model	SIEM-2/R5
Description	in-ear monitoring receiver
Carrier frequency range	518-542 MHz
Audio frequency range	40-18,000 Hz
Dynamic range	> 80 dB
Operating time	> 8 h
Power supply receiver	2 x batt. AA size, alkaline (not supplied)
Dimensions receiver	75 x 160 x 32 mm
Weight receiver	83 g
Connections receiver	6.3 mm stereo jack



IE-1

Order No. 0220810

Stereo in-ear earphones

- Especially designed for application with in-ear systems SIEM
- Musical experience rich in detail due to a brilliant reproduction of the high frequencies, a natural midrange and a reproduction of the entire bass range
- Three pairs of silicone sleeves in different sizes ensure an excellent isolation of the background noise and a

Model	IE-1
Type of transducer	dynamic
Max. input power	100 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	16 Ω
Headphone sensitivity	114 dB/mW
Cable	1.5 m
Plug	3.5 mm stereo plug
Weight w/o cable	6 g



perfect fit, very comfortable to wear without pressure even after hours of wearing

CM-214U

Order No. 0236440

Electret headband microphone

- For stage, presentations and general speech applications
- Cardioid polar pattern and a vibration-reducing cartridge support allow for maximum protection against acoustic feedback and ensure minimum structure-borne noise
- Adjustable headband
- Secure fit, very comfortable to wear
- Supplied with bag and windshield

Model	CM-214U
Polar pattern	cardioid
System	electret
Audio frequency range	30-18,000 Hz
Nominal impedance	680 Ω
Sensitivity	4 mV/Pa
Max. sound pressure	130 dB
Power supply	pocket transmitter of the IN/PT/UF series or PS-500
Weight	40 g
Connection	4-pole mini XLR

- Supplied with a 4-pole mini XLR connection cable for connection to pocket transmitters of the IN/PT/UF series



CM-235IF

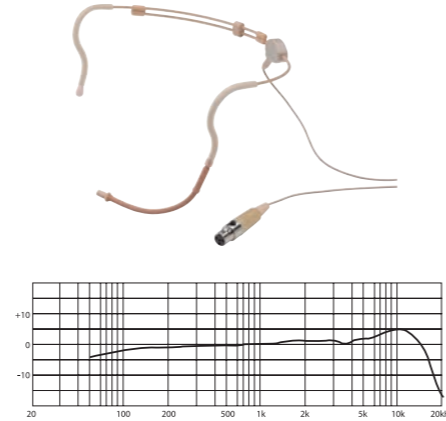
Order No. 0235970

Electret headband microphone

- High-quality microphone cartridge with omnidir. polar pattern
- Very comfortable to wear
- Adjustable headband
- Replaceable connection cable
- Suitable for children
- Highly flexible gooseneck cartridge arm
- Drip ring (protects cartridge from moisture)
- 4-pole mini XLR inline jack for connection to pocket transmitters of the IN/PT/UF
- Supplied with bag and windshield

Model	CM-235IF
Polar pattern	omnidir.
System	electret
Audio frequency range	50-18,000 Hz
Nominal impedance	1.8 kΩ
Sensitivity	2.2 mV/Pa
Max. sound pressure	130 dB
Power supply	pocket transmitter IN/PT/UF series or PS-500
Weight	17 g
Connection	4-pole mini XLR (optional: 3.5 mm stereo plug, 3-pole mini XLR or 4-pole Hirose connector)

- Connection cable 801TG with 3.5 mm plug for use with our tour guide systems is available at option



CM-214F

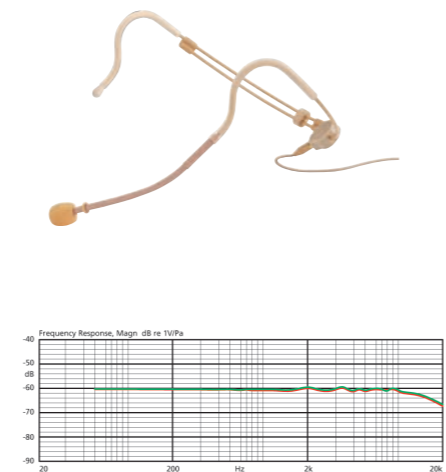
Order No. 0236430

Electret headband microphone

- Omnidirectional polar pattern allows for microphone to be positioned slightly next to the mouth in an unobtrusive way instead of directly in front of the mouth
- Ultra-light and adjustable headband
- Replaceable connection cable
- Secure fit, very comfortable to wear
- Drip ring protects cartridge from moisture and ensures a long operating life
- For connection to the pocket transmitters of the IN/PT/UF series with 4-pole mini XLR connection cable

Model	CM-214F
Polar pattern	omnidir.
System	electret
Audio frequency range	60-15,000 Hz
Nominal impedance	2.2 kΩ
Sensitivity	10 mV/Pa
Max. sound pressure	130 dB
Power supply	pocket transmitter IN/PT/UF series or PS-500
Weight	40 g
Connection	cable with 4-pole mini XLR (optional 3.5 mm stereo plug, 3-pole mini XLR or 4-pole Hirose connector)

- Connection cable 801TG with 3.5 mm plug for use with our tour guide systems is available at option
- Supplied with bag and windshield



CM-214ULF

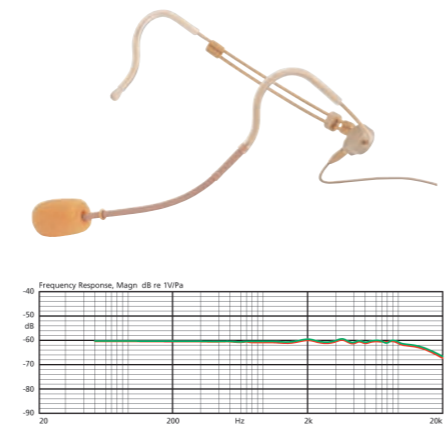
Order No. 0236450

Electret headband microphone

- Transparent sound
- Adjustable headband, comfortable to wear
- Highly resistant to acoustic feedback due to cardioid polar pattern
- Replaceable connection cable
- Flexible cartridge arm for exact positioning of cartridge, thus providing an optimum sound with an unobtrusive appearance
- Supplied with a 4-pole mini XLR connection cable for connection to pocket transmitters of the IN/PT/UF series
- Integrated drip ring protects the cartridge from moisture

Model	CM-214ULF
Polar pattern	cardioid
System	electret
Audio frequency range	100-18,000 Hz
Nominal impedance	1.5 kΩ
Sensitivity	1.8 mV/Pa
Max. sound pressure	120 dB
Power supply	pocket transmitter IN/PT/UF series or PS-500
Weight	44 g
Connection	4-pole mini XLR (optional: 3.5 mm stereo plug, 3-pole mini XLR or 4-pole Hirose connector)

- Connection cable with strain relief, screwed-on
- Connection cable 801TG with 3.5 mm plug for use with our tour guide systems is available at option
- Supplied with bag and windshield



CM-804IF

Order No. 0236090

Electret headband microphone

- Lightweight, very comfortable to wear, expressive sound
- Adjustable neckband, lockable
- Integrated drip ring protects cartridge from moisture
- Folding ear hook
- Connection cable with strain relief, screwed-on
- Connection cable 801TG with 3.5 mm plug for use with our tour guide systems is available at option
- Supplied with bag, windshield and collar clip

Model	CM-804IF
Polar pattern	omnidir.
System	electret
Audio frequency range	60-15,000 Hz
Nominal impedance	1.8 kΩ
Sensitivity	6.3 mV/Pa
Max. sound pressure	130 dB
Power supply	pocket transmitter IN/PT/UF series or PS-500
Weight	20 g
Connection	4-pole mini XLR (optional: 3.5 mm stereo plug, 3-pole mini XLR or 4-pole Hirose connector)



CM-801F

Order No. 0235900

Electret earband microphone

- Ultra-light earband microphone for stage and podium
- Optimum speech intelligibility
- Movable drip ring
- Screwed-on cable, easy to replace
- Clip for strain relief; makes microphone more comfortable to wear and enhances stable positioning
- Connection cable 801TG with 3.5 mm plug for use with our tour guide systems is available at option
- Supplied with bag and windshield

Model	CM-801F
Polar pattern	omnidir.
System	electret
Audio frequency range	60-15,000 Hz
Nominal impedance	1.8 kΩ
Sensitivity	6.3 mV/Pa
Max. sound pressure	130 dB
Power supply	pocket transmitters of the IN/PT/UF series or PS-500
Weight	16 g
Connection	4-pole mini XLR (optional: 3.5 mm stereo plug, 3-pole mini XLR or 4-pole Hirose connector)



HSE-340/SK

Order No. 1000026

Professional headband microphone, with cardioid polar pattern and a high-quality sound which is suitable for any vocal or speech application. Innovative design features ensure a maximum suppression of both the impact sound and structure-borne noise as well as an extra low acoustic feedback, very comfortable to wear. Beige version.

- Corrosion-resistant neckband, easy to clean
- Drip ring (protects cartridge from moisture)
- Unobtrusive and secure fit due to cable routing in neck area incl. strain relief and cable bending protection
- Stable positioning

Model	HSE-340/SK
Polar pattern	cardioid
System	electret
Audio frequency range	50-18,000 Hz
Nominal impedance	2 kΩ
Sensitivity	2.3 mV/Pa
Max. sound pressure	120 dB
Power supply	1.5-9 V
Weight	18 g (w/o cable and plug)
Connection	4-pole mini XLR

- Microphone windshield
- 4-pole mini XLR inline jack for connection to pocket transmitters from JTS or a pocket transmitters of the same design from other brand manufacturers



PT-RMS

Order No. 0236870

External mute button (cough button)

- For tie clip microphones and headband microphones from JTS
- Selectable switching mode (ON/OFF, momentary ON, momentary OFF)
- 4-pole mini XLR connection
- Compatible with any pocket transmitter from JTS



CM-501

Order No. 0234690

Electret lavalier microphone

- For presentations and discussions
- Good audibility, secure fit due to supplied tie clip, easy to attach
- Cardioid polar pattern
- Allows to pick up a precise voice of high quality over a wide dynamic range
- Supplied with windshield

Model	CM-501	
Polar pattern	cardioid	
System	electret	
Audio frequency range	100-15,000 Hz	
Nominal impedance	2.2 kΩ	
Sensitivity	3.2 mV/Pa	
Max. sound pressure	130 dB	
Power supply	pocket transmitter	
	IN/PT/UF series or PS-500	
Weight	20 g	
Connection	4-pole mini XLR	



CM-125IB

Order No. 0235940

CM-125IF

Order No. 0235950

Electret lavalier microphones, miniature version.

- High-quality microphone cartridge with omnidirectional polar pattern
- Excellent sound characteristics
- Removable clip and 1.4 m connection cable
- 4-pole mini XLR inline jack for connection to a pocket transmitter of the IN/PT/UF series
- Beige (CM-125IF) or black (CM-125IB) version

Model	CM-125IB	CM-125IF
Polar pattern	omnidir.	omnidir.
System	electret	electret
Audio frequency range	50-18,000 Hz	50-18,000 Hz
Nominal impedance	4.4 kΩ	4.4 kΩ
Sensitivity	2.2 mV/Pa	2.2 mV/Pa
Max. sound pressure	130 dB	130 dB
Power supply	pocket transmitter of the IN/PT/UF series or PS-500	pocket transmitter of the IN/PT/UF series or PS-500
Weight	15 g	15 g
Connection	4-pole mini XLR	4-pole mini XLR



- Supplied with bag and windshield

801TG

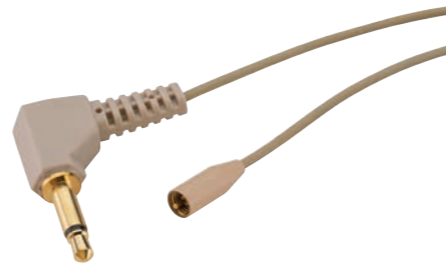
Order No. 1000746



Connection cable

- Beige version
- Right-angle 3.5 mm plug
- Length: 150 cm
- Suitable for CM-801F, CM-804IF, CM-214F, CM-214ULF, CM-235IF
- Can be combined with JTS tour guide systems TG-98TA/5, TG-10T/1 and KA-10/1PACK

- Can be combined with MONACOR tour guide systems ATS-10TM, ATS-16T, ATS-20T, ATS-42T, ATS-50T, ATS-60T
- Can be combined with MONACOR WAP-8 (not compatible with ATS-22T, ATS-80T)



801CR

Order No. 0236530

801CR/B

Order No. 0237250

Connection cable

- Beige (801CR) or black (801CR/B) version
- 4-pole Hirose connector
- Length: 150 cm
- Suitable for CM-801F, CM-804IF, CM-214F, CM-214ULF and CM-235IF, CM-235IB



801CS

Order No. 0236110

801CS/B

Order No. 0237260

Connection cable

- Beige (801CS) or black (801CS/B) version
- Screwable 3.5 mm plug
- Length: 150 cm
- Suitable for CM-801F, CM-804IF, CM-214F, CM-214ULF and CM-235IF



801C3

Order No. 0236120

801C3/B

Order No. 0237240

Connection cable

- Beige (801C3) or black (801C3/B) version
- 3-pole mini XLR connector
- Length: 150 cm
- Suitable for CM-801F, CM-804IF, CM-214F, CM-214ULF and CM-235IF, CM-235IB



801C4

Order No. 0069240

801C4/B

Order No. 0069410

Connection cable

- Beige (801C4) or black (801C4/B) version
- 4-pole mini XLR connector
- Length: 150 cm
- Suitable for CM-801F, CM-804IF, CM-214F, CM-214ULF and CM-235IF, CM-235IB



CX-500F

Order No. 0236190

Miniature electret instrument microphone, for sound pickup of flutes.

- Gold-plated back electret cartridge with omnidirectional polar pattern
- Very precise frequency response
- Innovative, glueless fastening system (for tube diameter: 18-26 mm)
- Flexible miniature gooseneck for exact positioning of the microphone
- 4-pole mini XLR inline jack for connection to a pocket transmitter of the IN/PT/UF series, other connection cables are available at option

Model	CX-500F	
Polar pattern	omnidir.	
System	back electret	
Audio frequency range	20-20,000 Hz	
Nominal impedance	1.5 kΩ	
Sensitivity	12.6 mV/Pa	
Max. sound pressure	130 dB	
Power supply	= 48 V, phantom power via power supply adapter	
Housing material	plastic	
Weight	8 g	
Cable	1.4 m	
Connection	4-pole mini XLR adapter: XLR, bal.	



- Supplied with phantom power supply adapter MA-500 for wired connection to a mixer
- Supplied with robust transport case, phantom power supply adapter and windshield

CX-500DUSET

Order No. 0236710

Miniature electret instrument microphone

- For acoustic guitars, string instruments and other acoustic instruments
- Combined with the integrated contact microphone, it creates a genuine sound which is rich in detail and perfectly delivers the natural sound characteristics of the instrument across a wide dynamic range
- Individual volume control of instrument microphone and contact microphone possible via supplied phantom power supply adapter/mixer

Model	CX-500DUSET	
Polar pattern	omnidir.	
System	back electret	
Audio frequency range	20-20,000 Hz	
Nominal impedance	1.5 kΩ	
Sensitivity	12.6 mV/Pa	
S/N ratio	68 dB	
Max. sound pressure	130 dB	
Power supply	= 1-5 V via PS-510M	
Weight	6.5 g	
Connection	2 x 4-pole mini XLR	



- Supplied with 2 windshields, 2 self-adhesive pads
- Supplied in a robust plastic case

CX-500

Order No. 0235850

Miniature electret instrument microphone

- For strings and other acoustic instrumentalists
- Pure and powerful sound which perfectly reproduces the natural sound characteristics of the instrument across a wide dynamic range
- Versatile options for attaching the microphone and precisely position it to achieve a perfect alignment and protect the instrument from damage
- 10 dB attenuator and 2 switchable low cut filters in the phantom power supply adapter
- Wireless operation possible with respective wireless systems from JTS

Model	CX-500	
Polar pattern	omnidir.	
System	electret	
Nominal impedance	1.5 kΩ	
Sensitivity	6.3 mV/Pa	
Max. sound pressure	130 dB	
Power supply	= 48 V, phantom power via MA-500	
Housing material	plastic	
Weight	15 g	
Connection	4-pole mini XLR adapter: XLR, bal.	



- Power supply adapter with belt clip
- Supplied with 48 V phantom power supply adapter, 2 tailpieces, 5 body clips, 4 windshields, 26 self-adhesive pads
- Supplied in a robust plastic case



CX-500FWH

Order No. 0235980

Electret headband microphone, for sound pickup of flutes.

- High-quality microphone cartridge with omnidirectional polar pattern
- Very comfortable to wear
- Adjustable headband
- Microphone boom adjustable in length
- Suitable for kids
- 4-pole mini XLR inline jack for connection to pocket transmitter of the IN/PT/UF series, other connection cables are available at option
- Supplied with phantom power supply adapter MA-500 for wired connection to a mixer

Model	CX-500FWH	
Polar pattern	omnidir.	
System	electret	
Audio frequency range	20-20,000 Hz	
Nominal impedance	1.5 kΩ	
Sensitivity	12.5 mV/Pa	
Max. sound pressure	130 dB	
Power supply	pocket transmitter IN/PT/UF series or = 12-48 V, phantom power via MA-500	
Weight	6.5 g	
Connection	4-pole mini XLR	



- Drip ring (protects cartridge from moisture)
- Supplied with bag, clip and windshield

CX-520

Order No. 0236200

Dynamic instrument microphone

- For blues harp harmonica players and traditional harmonica players
- Vocalists of techno or dance music like to use it for adding a special effect to their performance
- Dynamic supercardioid cartridge for a constant quality over a wide dynamic range
- Robust diecast body of an ergonomic design
- Volume control directly at the microphone
- Wireless operation directly via any pocket transmitter from JTS

Model	CX-520
Polar pattern	supercardioid
System	dynamic
Audio frequency range	15-16,500 Hz
Nominal impedance	600 Ω
Sensitivity	1.3 mV/Pa
Max. sound pressure	148 dB
Weight	350 g
Cable	1.4 m
Connection	4-pole mini XLR adapter: XLR, bal.

- Wired operation possible via supplied adapter MA-500 (with additional features, e.g. switchable low cut filter and PAD) and optional XLR cable
- Supplied with robust transport case and cable adapter

**CX-516**

Order No. 0234640

CX-516W

Order No. 0234630

Electret instrument microphones

- For sound pickup of accordions, pianos or wind instruments
- Well-balanced frequency response for a genuine and brilliant sound
- Structure-borne noise isolated cartridge
- Flexible gooseneck
- Quick-acting holder of special design
- Supplied in a robust transport case with windshield

Model	CX-516	CX-516W
Polar pattern	supercardioid	supercardioid
System	electret	electret
Audio frequency range	20-20,000 Hz	20-20,000 Hz
Nominal impedance	220 Ω ± 30%	220 Ω ± 30%
Sensitivity	5.6 mV/Pa	4.5 mV/Pa
Max. sound pressure	130 dB	130 dB
Power supply	48 V phantom power	pocket transmitter from JTS
Housing material	plastic	plastic
Weight	63 g	55 g
Cable	3.3 m	1.4 m
Connection	3-pole XLR	4-pole mini XLR

**CX-508**

Order No. 0234610

CX-508W

Order No. 0234620

Electret instrument microphones

- For sound pickup of wind instruments
- Wide dynamic range
- Crystal-clear and crisp sound
- Integrated spring-type clamp to attach to a horn
- Robust gooseneck, can be turned by 230°
- Design of low structure-borne noise with low susceptibility to wind noise
- Supplied in a robust transport case and windshield

Model	CX-508	CX-508W
Polar pattern	cardioid	cardioid
System	electret	electret
Audio frequency range	50-18,000 Hz	50-18,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	5 mV/Pa	4.5 mV/Pa
Max. sound pressure	130 dB	130 dB
Power supply	48 V phantom power	pocket transmitter from JTS
Housing material	plastic	plastic
Weight	170 g	170 g
Cable	3.3 m	1.4 m
Connection	3-pole XLR	4-pole mini XLR

**CX-505**

Order No. 0234590

Electret instrument microphone

- State-of-the-art microphone for drummers and percussionists
- Brilliant sound which is always accentuated and powerful, even at great dynamic gaps
- Clamp with rubber jaws, to be attached to the rim of drums
- Miniature gooseneck, can be turned by 230°
- Suppression of structure-borne noise
- Supplied in a robust transport case

Model	CX-505
Polar pattern	cardioid
System	electret
Audio frequency range	50-18,000 Hz
Nominal impedance	220 Ω
Sensitivity	5.6 mV/Pa
Max. sound pressure	130 dB
Power supply	= 48 V phantom power
Housing material	plastic
Weight	187 g
Connection	XLR, bal.

**NX-9**

Order No. 0234750

Overhead electret microphone

- For various applications: sound pickup of hi-hats/cymbals/percussion instruments, microphone applications with acoustic instruments, e.g. guitars, violins, pianos or wind instruments
- Well-balanced and natural sound
- Operation via +48 V phantom power or via 1.5 V battery AA size (not supplied)
- Supplied with microphone holder and padded bag

Model	NX-9
Polar pattern	cardioid
System	electret
Audio frequency range	60-18,000 Hz
Nominal impedance	400 Ω ± 30%
Sensitivity	3.2 mV/Pa
Max. sound pressure	145 dB
Power supply	= 48 V phantom power or 1 x batt. AA size (not supplied)
Housing material	diecast metal
Weight	230 g
Connection	XLR, bal.

**NX-2**

Order No. 0234820

Dynamic instrument microphone

- For sound pickup of bass drums, kick drums, bass amplifiers or various other bass instruments
- Suppression of structure-borne noise/impact noise
- Excellent mechanical features
- Integrated stand holder
- Supplied with padded bag

Model	NX-2
Polar pattern	supercardioid
System	dynamic
Audio frequency range	20-12,000 Hz
Nominal impedance	600 Ω
Sensitivity	0.6 mV/Pa
Max. sound pressure	172 dB
Housing material	diecast metal
Weight	800 g
Connection	XLR, bal.

**NX-6**

Order No. 0234810

Dynamic instrument microphone

- For sound pickup of drums or percussion instruments, e.g. snare drums, tom-toms, congas or bongos
- Also suitable for use as a microphone with wind instruments, at a guitar amplifier or for sound pickup of acoustic instruments
- Transparent and very powerful sound
- Suppression of structure-borne noise
- High-quality workmanship of the mechanical features
- Integrated stand holder with continuously variable adjustment
- Supplied with padded bag

Model	NX-6
Polar pattern	cardioid
System	dynamic
Audio frequency range	60-16,000 Hz
Nominal impedance	600 Ω
Sensitivity	2.5 mV/Pa
Max. sound pressure	158 dB
Housing material	diecast metal
Weight	610 g
Connection	XLR, bal.



NX-8.8

Order No. 0234760

Electret vocal microphone

- Excellent vocal sound which allows studio quality at live performances
- High-quality electret condenser cartridge for a warm and natural sound with a high resistance to acoustic feedback
- Filter technology minimises breathing noise and pop noise
- Robust diecast body and stable basket
- Supplied with microphone holder and padded bag

Model	NX-8.8
Polar pattern	supercardioid
System	electret
Audio frequency range	60-18,000 Hz
Nominal impedance	400 Ω ±30%
Sensitivity	3.2 mV/Pa
Max. sound pressure	136 dB
Power supply	= 48 V phantom power
Housing material	diecast metal
Weight	290 g
Connection	XLR, bal.



NX-8

Order No. 0234770

Dynamic vocal microphone

- Accentuated and clear voice reproduction
- Wide dynamic range
- Significantly reduced transmission of the handling noise
- Non-slip and durable due to special stove-enamel finish
- High-quality and solid workmanship
- Supplied with microphone holder and padded bag

Model	NX-8
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,500 Hz
Nominal impedance	600 Ω
Sensitivity	2.5 mV/Pa
Max. sound pressure	138 dB
Housing material	diecast metal
Weight	245 g
Connection	XLR, bal.



NX-8S

Order No. 0234780

Dynamic vocal microphone

- Accentuated and clear voice reproduction
- Wide dynamic range
- Low-noise reed switch resistant to wear
- Significantly reduced transmission of the handling noise
- Non-slip and durable due to special stove-enamel finish
- High-quality and solid workmanship
- Supplied with microphone holder and padded bag

Model	NX-8S
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,500 Hz
Nominal impedance	600 Ω
Sensitivity	2.5 mV/Pa
Max. sound pressure	138 dB
Housing material	diecast metal
Weight	245 g
Connection	XLR, bal.



TK-600

Order No. 0234890

Dynamic vocal microphone

- Impressive vocal microphone, also meets high requirements, available at an attractive price
- Powerful and brilliant sound reproduction
- Minimised handling noise
- Low susceptibility to acoustic feedback
- Mechanical stability
- Low-noise reed switch resistant to wear
- Supplied with connection cable

Model	TK-600
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,000 Hz
Nominal impedance	600 Ω
Sensitivity	1.8 mV/Pa
Max. sound pressure	147 dB
Housing material	diecast metal
Weight	380 g
Cable	XLR, bal.
Connection	XLR, bal.



TK-350

Order No. 0234880

Dynamic vocal microphone

- Frequency response optimised for vocals
- Clear voice reproduction
- Powerful band sound
- Minimised handling noise and structure-borne noise, low susceptibility to acoustic feedback
- High-quality reed switch allows silent switching actions
- Supplied with connection cable

Model	TK-350
Polar pattern	cardioid
System	dynamic
Audio frequency range	80-12,000 Hz
Nominal impedance	600 Ω
Sensitivity	1.8 mV/Pa
Max. sound pressure	145 dB
Housing material	diecast metal
Weight	380 g
Cable	XLR, bal.,
Connection	XLR, bal.



TM-929

Order No. 0234940

Dynamic vocal microphone

- High-quality entry-level microphone, classic design
- Robust body
- Suppression of handling noise and acoustic feedback
- Low-noise reed switch
- Supplied with connection cable

Model	TM-929
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-15,000 Hz
Nominal impedance	600 Ω
Sensitivity	1.8 mV/Pa
Max. sound pressure	148 dB
Housing material	diecast metal
Weight	350 g
Cable	XLR, bal.,
Connection	6.3 mm plug, unbal.



PDM-3

Order No. 0234850

Dynamic vocal microphone

- Frequency response especially optimised for the vocal spectrum
- Low handling noise and high acoustic feedback suppression
- Robust design for a long life
- Supplied with connection cable

Model	PDM-3
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,500 Hz
Nominal impedance	600 Ω
Sensitivity	1.8 mV/Pa
Max. sound pressure	147 dB
Housing material	diecast metal
Weight	315 g
Cable	XLR, bal., XLR, bal.
Connection	XLR, bal.



PDM-57

Order No. 0234860

Universal dynamic microphone

- For general sound pickup of instruments and for live performances
- Natural sound characteristics
- Characteristic sound with a high recognition value
- Supplied with connection cable

Model	PDM-57
Polar pattern	cardioid
System	dynamic
Audio frequency range	50-16,500 Hz
Nominal impedance	600 Ω
Sensitivity	1.8 mV/Pa
Max. sound pressure	145 dB
Housing material	diecast metal
Weight	250 g
Cable	XLR, bal., XLR, bal.
Connection	XLR, bal.



CP-40

Order No. 0235250

Replacement microphone head, suitable for PDM-3 as well as microphones of the same design from other brand manufacturers.



WA-35

Order No. 0172940



Portable MP3 FM amplifier system with wireless microphone

- Compact and ultra-light class D amplifier system (total weight: 1.75 kg)
- Power capability of 25 W in battery operation (integrated 14.8 V rech. LiPo battery) and 35 W with power supply
- Ideally suited for outdoor applications due to splash-proof housing, stainless steel screws, impregnated full range speaker with dual cone and push-on silicone cover for the control unit
- MP3 reproduction via USB interface and SD card slot
- FM radio with 20 station presets
- Wireless 16-channel microphone system in the licence-free range 863-865 MHz (1 x 1.5 V battery, AA size, not supplied)
- Sound adjustment
- Connection facility for a cable-connected microphone
- Alarm siren: 2-tone and wailing sound

Model	WA-35
Rated power (P _{RMS})	25 W (rech. batt.), 35 W (mains)
Peak output power	60 W
Carrier frequency	863-865 MHz
Power supply	14.8 V rech. LiPo battery, via power supply
Dimensions	146 x 179 x 223 mm
Weight	1.75 kg
Connections	1 x 6.3 mm jack (mic), 1 x USB

- LED lamp with continuous light, automatic SOS light and automatic flashing light
- Charging status indication
- Deep discharge protection
- 9 mm (3/8") stand sleeve
- Integrated recessed carrying handle
- Robust carrying strap with integrated microphone bag

Licence-free in the EU.



HP-565

Order No. 0221300

Professional studio headphones

- Excellent sound quality and a rich bass reproduction
- Semi-open system, over-ear
- Padded ear cushions and headband, comfortable to wear
- 3 m cable with single-sided cable inlet
- 3.5 mm plug with 6.3 mm adapter

Model	HP-565
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	500 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	32 Ω
Headphone sensitivity	104 dB/mW
Cable	3 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Adapter	6.3 mm plug, gold-plated
Weight w/o cable	350 g



HP-535

Order No. 0220790

Professional studio monitor headphones

- Excellent sound quality, very comfortable to wear
- Semi-open system, over-ear
- Padded ear cushions and headrest
- 2 m cable with single-sided cable inlet
- 3.5 mm plug with 6.3 mm adapter

Model	HP-535
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	1 W
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	64 Ω
Headphone sensitivity	104 dB/mW
Cable	2 m, single-sided cable inlet
Plug	3.5 mm plug, gold-plated
Adapter	6.3 mm plug, gold-plated
Weight w/o cable	380 g



HPM-535

Order No. 0220210

Professional stereo headphones with electret boom microphone

- Excellent sound characteristics, comfortable to wear
- Semi-open system, over-ear
- Compatible with sound cards
- Ideally suited for gaming
- Adjustable microphone boom
- Padded ear cushions and headband
- 2 m cable with single-sided cable inlet and 3.5 mm plugs

Model	HPM-535
Headphone driver	neodymium, Ø 40 mm
Type of transducer	dynamic
Max. input power	1,000 mW
Transmission range, headphones	20-20,000 Hz
Nominal impedance, headphones	64 Ω
Headphone sensitivity	104 dB/mW
Transmission range, mic.	100-15,000 Hz
Nominal impedance, microphone	680 Ω
Microphone system	electret
Microphone sensitivity	6.3 mV/Pa/1 kHz
Power supply	= 1.5-10 V
Cable	2 m, single-sided cable inlet
Plug	2 x 3.5 mm plug, gold-plated
Weight w/o cable	308 g



PM-35USB

Order No. 1000673

**Dynamic microphone**, with USB connector.

- For operating directly at a PC
- No driver installation required, device will be identified automatically
- Microphone cartridge with cardioid polar pattern
- Integrated A/D converter (16 bits/48 KHz)
- On/off switch
- For Windows XP/Vista/Win7/Win10 or Mac

Model	PM-35USB
Polar pattern	cardioid
System	dynamic
Audio frequency range	100-10,000 Hz
Nominal impedance	600 Ω
Sensitivity	2.5 mV/Pa
Max. sound pressure	145 dB
Housing material	plastic
Dimensions	Ø 50 mm x 200 mm
Weight	202 g
Cable	4 m, assembled
Connection	plug Type-A

**CM-601**

Order No. 0235010

Electret boundary microphone

- For theatrical performances, discussions, conferences and in churches
- A direct alignment to the sound source is not essential due to the special characteristics of a boundary microphone
- Dual low cut filter (80 Hz/120 Hz)
- Configurable push-button (PTT, PTM or switching function)
- Standby LED
- Robust and shock-absorbing body
- Elastic cartridge suspension for preventing structure-borne noise and impact sound

Model	CM-601
Transmission method	cable
Polar pattern	semi-cardioid
System	electret
Audio frequency range	30-12,000 Hz
Nominal impedance	100 Ω
Sensitivity	2.2 mV/Pa
Max. sound pressure	125 dB
Power supply	= 15-48 V, phantom power
Housing material	diecast metal
Weight	0.85 kg
Connection	3-pin mini XLR plug, unbal.

- With 8 m cable mini XLR jack to XLR plug
- Connection via 3-pin mini XLR plug, unbal.
- With preformed outline at the bottom for possible wall mounting

**CM-602USB**

Order No. 0231870

**Electret boundary microphone**, with USB port.

- On/off switch with power LED
- Elastic cartridge suspension for preventing impact sound and structure-borne noise
- With 1.8 m USB connection cable

Model	CM-602USB
Polar pattern	semi-cardioid
System	electret
Audio frequency range	30-12,000 Hz
Nominal impedance	100 Ω
Sensitivity	2.2 mV/Pa
Max. sound pressure	125 dB
Power supply	via USB interface
Housing material	plastic
Dimensions	72 x 23 x 110 mm
Weight	88 g
Cable	1.8 m
Connection	USB type B jack

**SGM-14**

Order No. 0236730

Electret shotgun microphone

- For outdoor recordings, e.g. film productions and video productions
- Low-cut switch (80 Hz)
- 10 dB attenuation, switchable
- Supplied with microphone holder and windshield

Model	SGM-14
Polar pattern	hypercardioid
System	electret/condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	200 Ω
Sensitivity	25 mV/Pa
Max. sound pressure	125 dB
Power supply	9-48 V phantom power
Dimensions	Ø 22 mm x 357 mm
Weight	195 g
Connection	3-pole XLR

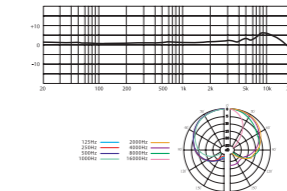
**JS-22**

Order No. 0231970

Professional condenser microphone, for studio applications and live performances. Ideally suited for direct or overhead sound pickup of acoustic instruments, percussions and vocals or 2 x JS-22 for high-quality stereo recordings.

- 1.25 cm (1/2") extra thin gold-plated diaphragm
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- 48 V phantom power
- Robust brass body of high quality
- Supplied accessories: robust hard-sided case, microphone windshield and microphone holder

Model	JS-22
Polar pattern	cardioid
System	condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	100 Ω
Sensitivity	15.8 mV/Pa
S/N ratio	78 dB
Max. sound pressure	140 dB
Power supply	= 48 V, phantom power
Housing material	brass
Dimensions	Ø 20 mm x 150 mm
Weight	130 g
Connection	XLR, bal.

**CX-509**

Order No. 0234710

Overhead electret microphone

- For sound pickup of hi-hats/cymbals as well as various percussion instruments and acoustic instruments, e.g. guitars/violins, flutes or choir voices
- Excellent sound characteristics
- Unobtrusive positioning due to small dimensions
- Robust body with integrated phantom power supply adapter
- Supplied with microphone holder

Model	CX-509
Polar pattern	cardioid
System	electret/cardiod
Audio frequency range	20-20,000 Hz
Nominal impedance	220 Ω ± 30%
Sensitivity	5.6 mV/Pa
Max. sound pressure	130 dB
Power supply	48 V phantom power
Housing material	metal
Weight	60 g
Connection	XLR, bal.

**CM-502**

Order No. 0234580

CM-502WT

Order No. 0233990

Overhead hanging electret microphones

- For suspended installations, especially suitable for applications in which a direct microphonic effect is undesired for optical or operational reasons, e.g. sound pickup of choirs or on theatre stages or school stages
- Microphone cartridge with supercardioid polar pattern
- Integrated phantom power supply adapter
- Easy installation and alignment due to supplied mounting plate for ceiling suspension and spring holder
- Supplied with windshield

Model	CM-502	CM-502WT
Polar pattern	supercardioid	supercardioid
System	electret	electret
Audio frequency range	100-18,000 Hz	100-18,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	4 mV/Pa	4 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	= 12-48 V, phantom power	= 12-48 V, phantom power
Housing material	metal	metal
Weight	190 g	190 g
Cable	7.5 m	7.5 m
Connection	XLR, bal.	XLR, bal.

**CM-502WT: white version**

CM-502G6B

Order No. 0233950

CM-502G6W

Order No. 0233960

CM-502G12B

Order No. 0233970

CM-502G12W

Order No. 0233980

Overhead hanging electret microphone

- For suspended installations, especially suitable for applications in which a direct microphonic effect is undesired for optical or operational reasons, e.g. sound pickup of choirs or on theatre stages or school stages
- Microphone cartridge with supercardioid polar pattern
- Integrated phantom power supply adapter
- Flexible alignment due to gooseneck
- Easy-to-replace cartridge unit
- Black (CM-502G...B) or white (CM-502G...W) version
- Supplied with windshield

Total length:

CM-502G6...: 180 mm
 CM-502G12...: 320 mm



CM-502G12B = black
 CM-502G12W = white

CM-502G6B = black
 CM-502G6W = white

Model	CM-502G6B, CM-502G6W	CM-502G12B, CM-502G12W
Polar pattern	supercardioid	supercardioid
System	electret	electret
Audio frequency range	100-18,000 Hz	100-18,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	4 mV/Pa	4 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	= 48 V, phantom power	= 48 V, phantom power
Housing material	metal	metal
Weight	100 g	145 g
Cable	8 m	8 m
Connection	XLR, bal.	XLR, bal.

CM-22G6W

Order No. 0233920

CM-22G12B

Order No. 0233930

Overhead hanging condenser microphone

- For suspended installations, especially suitable for applications in which a direct microphonic effect is undesired for optical or operational reasons, e.g. sound pickup of choirs or on theatre stages or school stages
- High-quality condenser microphone cartridge with 1.25 cm (1/2") extra thin gold-plated diaphragm, cardioid polar pattern
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Integrated phantom power supply adapter
- Flexible alignment due to gooseneck
- Black (CM-22G...B) or white (CM-22G...W) version
- Supplied with windshield

Total length:

CM-22G6...: 205 mm
 CM-22G12...: 340 mm



Model	CM-22G6W	CM-22G12B
Polar pattern	cardioid	cardioid
System	condenser	condenser
Audio frequency range	20-20,000 Hz	20-20,000 Hz
Nominal impedance	100 Ω	100 Ω
Sensitivity	15.8 mV/Pa	15.8 mV/Pa
Max. sound pressure	140 dB	140 dB
Power supply	= 48 V, phantom power	= 48 V, phantom power
Housing material	metal	metal
Weight	140 g	160 g
Cable	8 m	8 m
Connection	XLR, bal.	XLR, bal.

GM-5212

Order No. 0234380

GM-5218

Order No. 0234390



Electret gooseneck microphones

- Supercardioid polar pattern
- Excellent sound with a very high speech intelligibility
- Minimum susceptibility to acoustic feedback
- Solid and high-quality workmanship to ensure a long service life
- Gooseneck with integrated 3-pole XLR plug
- Operation via external phantom power or microphone base DMS-5

Model	GM-5212	GM-5218
Polar pattern	supercardioid	supercardioid
System	back electret	back electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω ± 30%	220 Ω
Sensitivity	16 mV/Pa	16 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	= 48 V phantom power	= 48 V phantom power
Dimensions	455 mm	605 mm
Weight	165 g	185 g
Connection	XLR, bal.	XLR, bal.



GM-5212L

Order No. 0234410

GM-5218L

Order No. 0234420



Electret gooseneck microphones with LED

- Supercardioid polar pattern
- Natural sound
- Frequency response perfectly matched to the voice, precise voice reproduction
- Low susceptibility to acoustic feedback
- LED for indicating operating status
- Solid and high-quality workmanship to ensure a long service life

Model	GM-5212L	GM-5218L
Polar pattern	supercardioid	supercardioid
System	electret	electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω ± 30%	220 Ω
Sensitivity	12.6 mV/Pa	12.6 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	= 48 V phantom power	= 48 V phantom power
Dimensions	465 mm	615 mm
Weight	165 g	185 g
Connection	XLR, bal.	XLR, bal.



- Gooseneck with integrated 3-pole XLR plug
- Operation via external phantom power or desktop base DMS-5

GML-5212

Order No. 0234560

GML-5218

Order No. 0234570



Electret gooseneck microphones with LED

- 3 replaceable microphone cartridges with different polar patterns (cardioid, supercardioid and omnidirectional)
- Excellent speech intelligibility
- -10 dB PAD switch
- Switchable low cut filter
- LED for indicating operating status
- Solid and high-quality workmanship to ensure a long service life

Model	GML-5212	GML-5218
Polar pattern	cardioid/supercardioid/omnidir.	cardioid/supercardioid/omnidir.
System	back electret	back electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω ± 30%	220 Ω ± 30%
Sensitivity	16 mV/Pa	16 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	= 48 V phantom power	= 48 V phantom power
Dimensions	465 mm	615 mm
Weight	230 g	245 g
Connection	XLR, bal.	XLR, bal.



- Gooseneck with integrated 3-pole XLR plug
- Operation via external phantom power or microphone base DMS-5

GM-5212LDU

Order No. 0236290

GM-5215LDU

Order No. 0236310



Double gooseneck microphones with LED

- Back electret supercardioid cartridges
- High sensitivity
- 10 dB attenuator
- Low cut switch
- LED for indicating operating status
- Flexible positioning due to vertically adjustable goosenecks (160°)

Model	GM-5212LDU	GM-5215LDU
Polar pattern	supercardioid	supercardioid
System	back electret	back electret
Audio frequency range	80-18,000 Hz	80-18,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	16 mV/Pa	16 mV/Pa
Max. sound pressure	125 dB	125 dB
Power supply	= 48 V phantom power	= 48 V phantom power
Dimensions	415 mm	492 mm
Weight	315 g	335 g
Connection	XLR, bal.	XLR, bal.



- Common 3-pole XLR plug
- Operation via +48 V phantom power

FGM-170T

Order No. 0231920



Microphone floor stand, with carbon fibre boom.

- High-quality condenser microphone cartridge with 1.25 cm (1/2") extra thin gold-plated diaphragm, cardioid polar pattern and excellent sound characteristics
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Extra lightweight (105 g) but very robust carbon fibre boom (1.46 m) with miniature gooseneck
- Long shaft, for overhead miking
- Replaceable cartridge unit and cartridge (plug-in system with screw-type locking)

Model	FGM-170T
Polar pattern	cardioid
System	condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	100 Ω
Sensitivity	15.8 mV/Pa
Max. sound pressure	140 dB
Power supply	= 48 V, phantom power
Dimensions	1.46 m (boom) 1.6 m (stand)
Weight	3.4 kg
Connection	3-pole XLR plug, bal.

- Structure-borne noise isolated diecast base plate
- Supplied with windshield
- Delivery consists of 2 boxes



FGM-170

Order No. 0236070



Floor stand microphone, with carbon fibre boom.

- 3 high-quality back electret microphone cartridges with different polar patterns
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Extra lightweight (105 g) but very robust carbon fibre boom (1.46 m) with miniature gooseneck
- Long shaft, for overhead miking
- Structure-borne noise isolated diecast base plate
- Supplied with 2 replacement cartridges, connection cable and windshield
- Delivery consists of 2 boxes

Model	FGM-170
Polar pattern	cardioid, supercardioid, omnidir.
System	back electret
Audio frequency range	50-18,000 Hz
Nominal impedance	220 Ω
Sensitivity	16 mV/Pa
Max. sound pressure	125 dB
Power supply	= 12-48 V, phantom power
Dimensions	1.46 m (boom) 1.6 m (stand)
Weight	3.6 kg
Connection	cable with 3-pole mini XLR to XLR



CM-503U/B

Order No. 0231710

CM-503U/W

Order No. 0231820

Built-in electret microphones

- Microphone cartridge with semi-cardioid polar pattern
- Compact boundary microphone
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Metal housing
- Black (CM-503U/B) or white (CM-503U/W) cartridge cover

Model	CM-503U/B	CM-503U/W
Polar pattern	semi-cardioid	semi-cardioid
System	electret	electret
Audio frequency range	40-12,000 Hz	40-12,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	4 mV/Pa	4 mV/Pa
S/N ratio	70 dB	70 dB
Max. sound pressure	140 dB	140 dB
Power supply	= 9-52 V, phantom power	= 9-52 V, phantom power
Housing material	metal	metal
Dimensions	31.6 x 69.7 x 30 mm	31.6 x 69.7 x 30 mm
Weight	67 g	67 g
Connection	XLR, bal.	XLR, bal.



CM-503N/B

Order No. 0231720

CM-503N/W

Order No. 0231730

Built-in electret microphones

- Microphone cartridge with omnidirectional polar pattern
- Compact boundary microphone
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Metal housing
- Black (CM-503N/B) or white (CM-503N/W) cartridge cover

Model	CM-503N/B	CM-503N/W
Polar pattern	omnidir.	omnidir.
System	electret	electret
Audio frequency range	40-17,000 Hz	40-17,000 Hz
Nominal impedance	220 Ω	220 Ω
Sensitivity	4 mV/Pa	4 mV/Pa
S/N ratio	68 dB	68 dB
Max. sound pressure	140 dB	140 dB
Power supply	= 9-52 V, phantom power	= 9-52 V, phantom power
Housing material	metal	metal
Dimensions	31.6 x 69.7 x 30 mm	31.6 x 69.7 x 30 mm
Weight	67 g	67 g
Connection	XLR, bal.	XLR, bal.



ST-850

Order No. 0235510

Gooseneck microphone for an optional wireless operation

- Matching pocket transmitters of the PT series
- High-quality back electret cartridge with supercardioid polar pattern
- Low-noise reed switch for on/off
- LED status indicator
- Solid diecast housing
- Optional pocket transmitter can be attached to the diecast base

Model	ST-850
Polar pattern	supercardioid
System	back electret
Audio frequency range	50-18,000 Hz
Nominal impedance	2 kΩ/100 Ω
Sensitivity	5 mV/Pa, 15.8 mV/Pa
Max. sound pressure	125 dB
Power supply	via pocket transmitter, +48 V phantom power
Gooseneck length	305 mm
Dimensions	110 x 65 x 150 mm
Weight	693 g
Connection	4-pole mini XLR inline jack, XLR panel plug



ST-5000T

Order No. 0236890



Gooseneck desktop microphone

- 1.25 cm (1/2") high-quality gold-plated condenser cartridge
- Low cut switch (80 Hz)
- 10 dB attenuation, switchable
- Low-noise ON/OFF button
- Power LED
- XLR output

Model	ST-5000T
Polar pattern	cardioid
System	condenser
Audio frequency range	20-20,000 Hz
Nominal impedance	100 Ω
Sensitivity	15.8 mV/Pa
S/N ratio	78 dB
Max. sound pressure	140 dB
Power supply	= 36-52 V, phantom power
Gooseneck length	122 mm
Dimensions	96 x 46 x 113 mm
Weight	748 g
Connection	XLR, bal.



ST-5030

Order No. 0234360



Desktop microphone base for gooseneck microphone

- Anti-slip coating at the bottom for a firm stand and for noise reduction
- High-quality on/off reed switch allows almost silent switching operation
- Selector switch at the bottom for choosing type of microphone used (electret/dynamic)
- Operation possible via +48 V phantom power or two 1.5 V batteries AA size (not supplied)

Model	ST-5030
Power supply	48 V phantom power or 2 x 1.5 V batt. AA size (not supplied) 0.88 mA (operation) 0.62 mA (standby)
Weight	1.1 kg
Connections	XLR, bal. (in/out)



ST-5070

Order No. 0348240

Shock-mount base with XLR socket

- Elastic rubber support for suppressing low-frequency structure-borne noise
- Solderless version with screw terminal contact
- Latching device to avoid accidental unplugging of gooseneck microphone

Model	ST-5070
Dimensions	82 x 43 x 86 mm
Weight	67 g
Connections	XLR jack, screw terminal contact



ST-5000

Order No. 0231900



Gooseneck desktop microphone

- Back electret, supercardioid polar pattern
- Special RF shielding to avoid audible interference from smartphones
- ON/OFF switch
- Power LED
- Heavy-duty version
- Supplied with windshield

Model	ST-5000
Polar pattern	supercardioid
System	back electret
Audio frequency range	80-18,000 Hz
Nominal impedance	220 Ω
Sensitivity	10 mV/Pa
Max. sound pressure	125 dB
Power supply	= 12-48 V, phantom power
Gooseneck length	368 mm
Dimensions	96 x 46 x 113 mm (console housing)
Weight	820 g
Connection	XLR, bal.



MA-123

Order No. 0235490

Adjustable attenuator for balanced microphones

- For matching the microphone signal to mixers or preamplifiers
- Attenuation: 10 dB, 20 dB, 30 dB
- Also suitable for microphones with phantom power
- Metal body

Model	MA-123
Frequency range	22-20,000 Hz
Input impedance	1.6 kΩ/-10 dB
Output impedance	660 Ω/-10 dB
Dimensions	Ø 21 mm x 113 mm
Weight	46 g
Inputs	3-pole XLR jack
Outputs	3-pole XLR plug



MA-SW

Order No. 0236520

In-line microphone switch

- For dynamic microphones and condenser microphones
- Bi-directional use
- Metal body

Model	MA-SW
Dimensions	Ø 21 mm x 113 mm
Weight	44 g
Connections	3-pole XLR jack, 3-pole XLR plug



MA-PRS

Order No. 0236510

In-line phase reverser

- For balanced signals
- Bypass for phantom power
- Bi-directional use
- Metal body

Model	MA-PRS
Dimensions	Ø 21 mm x 113 mm
Weight	44 g
Connections	3-pole XLR jack, 3-pole XLR plug



MA-HPF

Order No. 0236500

In-line high-pass filter

- For reducing low-frequency microphone signals
- Also suitable for microphones with phantom power
- Metal body

Model	MA-HPF
Output impedance	150 Ω
Low cut	100 Hz (12 dB/oct.)
Dimensions	Ø 21 mm x 113 mm
Weight	50 g
Inputs	3-pole XLR jack
Outputs	3-pole XLR plug



PS-510M

Order No. 0236720

Phantom power supply adapter/mixer, battery-operated

- For supplying power to two microphones with 4-pole mini XLR plug (e.g. CX...W series, headband microphones and lavalier microphones of the CX/CM series)
- Allows operation at mixers, home recorders or similar devices without integrated +48 V phantom power
- Separate volume controls for the two microphones

Model	PS-510M
Input voltage	9 V battery (not supplied) or 12-48 V phantom power
Connections	2 x 4-pole mini XLR (input) 1 x XLR, bal. (output) 1 x 3.5 mm jack (headphones)
Dimensions	65 x 92 x 30 mm
Weight	80 g

- Adjustable headphone output
- Mute switch
- Belt clip



MA-500

Order No. 0235890

Phantom power supply adapter

- For electret microphones of the CM and CX series with 4-pole mini XLR connection
- 10 dB attenuator
- 2 switchable low cut filters
- Metal body with belt clip

Model	MA-500
Input voltage	= 12-48 V
Output voltage	= 12-48 V
Connections	4-pole mini XLR (microphone), 3-pole XLR (mixer)
Dimensions	Ø 20 mm x 96 mm
Weight	41 g



MH-56

Order No. 0234730

Microphone holder for wireless microphones

- Suitable for wireless microphones
- Rubber surround protects microphone from scratches and allows for a secure fit
- For tripod sockets: 9 mm (3/8") or 16 mm (5/8")



MH-36

Order No. 0234720

Microphone holder for standard microphones

- Suitable for microphones NX-7, NX-8
- Special composition of plastic materials guarantees high flexibility at an optimum form stability
- For tripod sockets: 9 mm (3/8") or 16 mm (5/8")



MH-16

Order No. 0234740

Microphone holder for slimline microphones

- Suitable for microphones NX-8.8 and NX-9
- For tripod sockets: 9 mm (3/8") or 16 mm (5/8")



MH-22

Order No. 0236860

Microphone holder

- Suitable for microphones JS-22, NX-9, CX-509 or similar models
- Good structure-borne noise isolation due to soft suspension
- For tripod sockets: 16 mm (5/8")



CLP-6

Order No. 0235060

Microphone holder

- Robust clamp allows for a secure attachment of microphone NX-6 to the rim of e.g. toms or snare drums
- Precise and optimum positioning of the microphones
- Microphone to be screwed directly to clamp



GC-80

Order No. 0067070

Guitar/bass cable

- For connecting an electric guitar to pocket transmitters of the PT/IN/UF series
- 6.3 mm metal plug with cable bending protection and 4-pole mini XLR inline jack with self-latching device
- Length: 70 cm



CS-W4C/5

Order No. 1000017

CS-W4C/6

Order No. 1000124

4-channel diversity UHF PLL wideband receiver for conference system

- Bandwidth: 36 MHz
- 6 groups, each with up to 22 compatible preset channels
- 1,441 selectable individual frequencies
- Conference modes: override, priority and open mode
- RF output and mains voltage output for easily cascading up to 10 x CS-W4C/5 receiver without additional splitter
- REMOSET technology for receiver/transmitter synchronisation
- Removable antennas (BNC connection)
- Auto-scan function
- Pilot tone squelch and noise mute
- Backlit display for indicating the status, e.g. for group/channel, frequency, battery, antenna A/B
- LED for indicating RF level and AF level
- Link connections
- Trigger output
- 482 mm (19") rack installation, 1 RU



There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	CS-W4C/5	CS-W4C/6
Carrier frequency range	506-542 MHz	626-662 MHz
Audio frequency range	60-16,000 Hz	60-16,000 Hz
THD	< 0.6%	< 0.6%
Dynamic range	> 105 dBA	> 105 dBA
Audio signal receiver	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 316 mV/600 Ω jack	630 mV/600 Ω XLR (line), 63 mV/600 Ω XLR (mic), 316 mV/600 Ω jack
Power supply receiver	~ 110-240 V/50-60 Hz/20 VA	~ 110-240 V/50-60 Hz/20 VA
Dimensions receiver	485 x 45 x 260 mm	485 x 45 x 260 mm
Weight receiver	2.4 kg	2.4 kg

CS-W4T/5

Order No. 1000018

CS-W4T/6

Order No. 1000122

UHF PLL microphone desk stand transmitter for the chairperson

- Back-electret microphone cartridge, supercardioid polar pattern
- 400 mm gooseneck, removable
- REMOSET technology for receiver/transmitter synchronisation
- Adjustable sensitivity
- Switchable transmitting power
- Low cut function
- Automatic switch-off
- Lock function
- LCD for indicating group/channel, audio level and battery status



There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	CS-W4T/5	CS-W4T/6
Carrier frequency range	506-542 MHz	626-662 MHz
Transmitting power	10/50 mW	10/50 mW
Operating time	≈ 25 h	≈ 25 h
Audio frequency range	60-16,000 Hz	60-16,000 Hz
Power supply	2 x batt. AA size, alkaline (not supplied)	2 x batt. AA size, alkaline (not supplied)
Gooseneck length	400 mm	400 mm
Dimensions	138 x 29 x 116 mm (console housing)	138 x 29 x 116 mm (console housing)
Weight	710 g	720 g

W4-CH1

Order No. 1000019

Charging station, for a UHF PLL microphone desk stand transmitter CS-W4T/5.

- Average charging time, depending on condition of rechargeable batteries used: approx. 3 hours
 - LED for indicating battery charging status
 - Mechanical reverse polarity protection
 - Protection against overload, short-circuit and deep discharge
 - Supplied with 2 x NiMH rech. battery (2,000 mAh)
- Supplied w/o devices.**



W4-CH12

Order No. 1000020

Transport case with integrated charging function, for UHF PLL microphone desk stand transmitter CS-W4T/5.

- For simultaneously charging rech. batteries of up to 12 devices
 - Average charging time, depending on condition of rechargeable batteries used: approx. 5 hours
 - Each slot with LED for indicating battery charging status
 - Mechanical reverse polarity protection
 - Protection against overload, short-circuit and deep discharge
 - Supplied with 24 x NiMH rech. battery AA size (2,000 mAh)
 - Butterfly locks and recessed drop handles
 - Stackable
 - Matching transport case cover W4-CH12/COVER is available at option and can be ordered separately
- Supplied w/o cover and devices.**



W4-CH12/COVER

Order No. 1000021

- Suitable for transport case with integrated charging function W4-CH12.



Conference System CS-1

Your opinion will be heard! The control unit CS-1CU, the microphone station for the chairperson CS-1CH and the microphone station for conference delegates CS-1DU together form a conference system with extensive configuration facilities for maximum flexibility.



CS-1CU

Order No. 0173060

Control unit, the control centre of the conference system

- For setting up a system with up to 50 microphone stations (2 x 25)
- Power supply for microphone stations
- Built-in speaker
- Headphone connection
- Keypad lock
- Display of date/time
- Stopwatch
- Test function for connected microphone stations
- Connection facilities for optional devices, e.g. external microphone, telephone coupler, signal processing units (e.g. equalizer), recorders, amplifiers, audio line sources

Model	CS-1CU
Power supply	100-240 V~/50-60 Hz/90 VA
Dimensions	360 x 90 x 150 mm
Weight	1.7 kg
Connections	2 x RCA (input/output for telephone coupler) 2 x RCA (input/output, e.g. for equalizer) 2 x RCA L/R (input/output for recorder) 2 x RCA (input/output for line signals) 1 x XLR (microphone input) 2 x 7-pole DIN jack (connection for microphone stations)



CS-1CH

Order No. 0173070

Microphone station for chairperson

- Back electret cartridge with cardioid polar pattern, optimised for voice transmissions
- Low-distortion speaker
- Reproduction via optional headphones
- Large function button
- Status displays at microphone and desktop station
- Priority button allows to interrupt an ongoing discussion between conference delegates, alternatively with a chime

Model	CS-1CH
Polar pattern	cardioid
System	back electret
Audio frequency range	50-18,000 Hz
Power supply	via control unit CS-1CU
Gooseneck length	400 mm
Dimensions	115 x 65 x 170 mm (console housing)
Weight	1.1 kg
Cable	2 m
Connection	2 x 3.5 mm jack 1 x 2 m connection cable with 7-pole DIN plug 1 x 7-pole DIN jack



CS-1DU

Order No. 0173080

Microphone station for conference delegates

- Back electret cartridge with cardioid polar pattern, optimised for voice transmissions
- Low-distortion speaker
- Operation via function button
- Headphone connection
- Status displays at microphone and desktop station

Model	CS-1DU
Polar pattern	cardioid
System	back electret
Audio frequency range	50-18,000 Hz
Power supply	via control unit CS-1CU
Gooseneck length	400 mm
Dimensions	115 x 65 x 170 mm (console housing)
Weight	1.1 kg
Cable	2 m
Connection	2 x 3.5 mm jack 1 x 2 m connection cable with 7-pole DIN plug 1 x 7-pole DIN jack



D7P-10

Order No. 0173370

10 m

Extension cable

- 7-pole DIN plug to 7-pole DIN jack
- Length: 10 m



D7P-20

Order No. 0173380

20 m

Extension cable

- 7-pole DIN plug to 7-pole DIN jack
- Length: 20 m



The Automatic Microphone Mixers

of the CS series are THE perfect aid for concepts with multiple microphones, e.g. in conference rooms, churches or language laboratories. The main task of the mixer is to open the respective microphone channel when required and to close it again when the speaker has finished the presentation. This intelligent adjustment for the individual microphone channels allows for a silent and precise control which ensures that the audience hears every single word. This greatly improves the overall sound resulting in a clear, transparent reproduction and minimises acoustic feedback and irritating background noise. The CS mixers feature a last-in function in order to maintain a pleasant atmosphere with a soft ambient sound also during the breaks in conversation rather than just cutting off the sound.

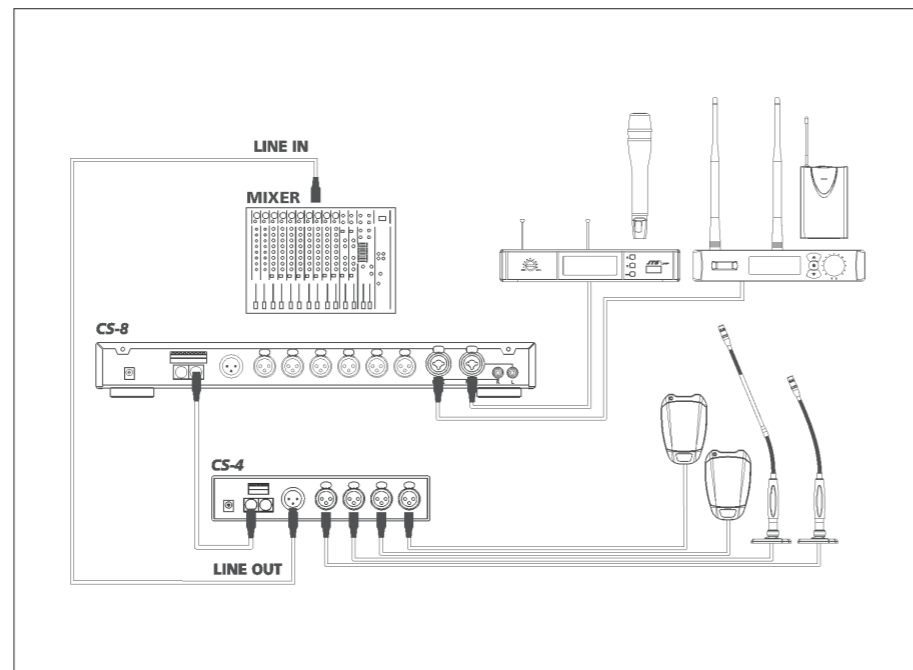
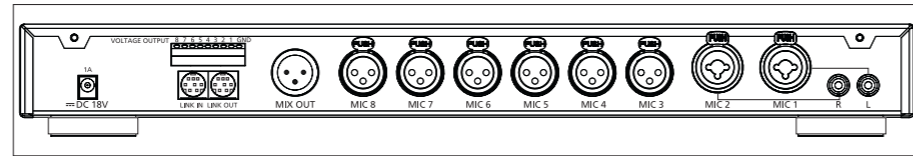
CS-8

Order No. 0173550

Automatic microphone mixer

- 8 channels
- 3 operating modes: auto mode, priority or 8/1-channel mixer
- Balanced XLR inputs, switchable mic/line
- Additional stereo RCA input
- 48 V phantom power
- Mix output, switchable mic/line
- Trigger outputs for external devices, e.g. warning devices, cameras or speakers
- Status LEDs
- Several devices can be combined via link connections (supplied with cable)
- Desktop metal housing
- 482 mm (19") rack installation possible with supplied mounting brackets

Model	CS-8
Mic input	0.2 mV/4.7 kΩ
Line input	60 mV/20 kΩ
Aux output	1 V/200 Ω
Frequency range	35-20,000 Hz
THD	< 0.06%
S/N ratio	> 70 dB
Power supply	via encl. plug-in power supply
Dimensions	420 x 44 x 199 mm
Weight	2.3 kg



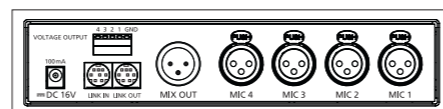
CS-4

Order No. 0173540

Automatic microphone mixer

- 4 channels
- 3 operating modes: auto mode, priority or 4/1-channel mixer
- Balanced XLR inputs, switchable mic/line
- 12 V phantom power
- Mix output, switchable mic/line
- Trigger outputs for external devices, e.g. warning devices, cameras or speakers
- Status LEDs
- Several devices can be combined via link connections (supplied with cable)
- Desktop metal housing
- 482 mm (19") rack installation with supplied mounting brackets

Model	CS-4
Mic input	0.2 mV/4.7 kΩ
Line input	60 mV/20 kΩ
Aux output	1 V/200 Ω
Frequency range	35-20,000 Hz
THD	< 0.06%
S/N ratio	> 70 dB
Power supply	via encl. plug-in power supply
Dimensions	200 x 44 x 212 mm
Weight	1.4 kg



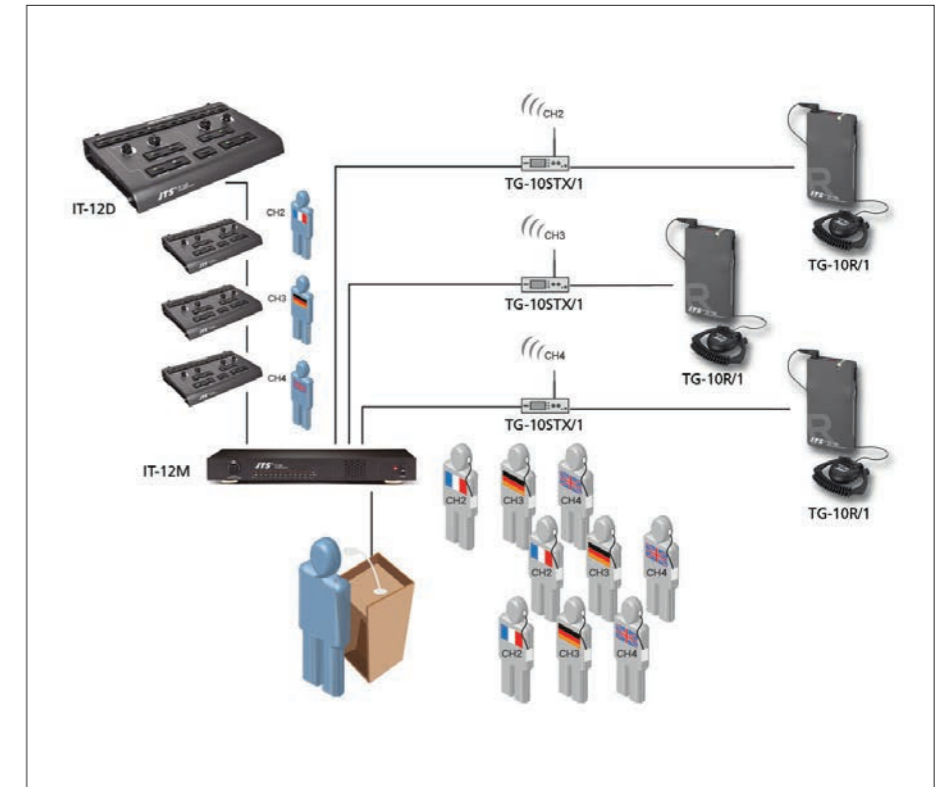
IT-12M

Order No. 0173720

Interpretation system, base unit, for setting up a multilingual interpretation system.

- 12 languages (floor language/main language and 11 translations via interpretation console IT-12D)
- Slow-down signal
- Alarm function, audio message or audio alarm signal can be fed to each output
- Status LEDs for interpretation channels
- Microphone connection via comb. jack on the front panel
- 48 V phantom power supply
- 12 V power supply connections for wireless transmitters TG-10STX/1, available at option
- 482 mm (19") rack installation with supplied mounting brackets

Model	IT-12M
Description	interpretation system, base unit
Type	12 languages
Colour	black
Material	metal
Power supply	~ 230 V/50 Hz/90 VA
Dimensions	423 x 52 x 220 mm
Weight	2.6 kg
Connections	microphone connection (comb. jack), 12 V power supply connections for TG-10STX/1



IT-12D

Order No. 0173710

Interpretation console, as an addition to the base unit IT-12M.

- Up to 11 interpretation consoles can be cascaded
- 2 channels, one of which is active, the other serves as a standby channel
- Interpreting channels can be stored permanently at the console
- Last active channel will be stored after switching off the operating voltage and will be available again immediately after switching on the unit
- 2 simultaneous interpreters/commentators to use the active channel at the same time
- Headset connection with volume control
- Microphones can be switched off or muted, cough button
- Balanced XLR jacks for connecting additional microphones
- Relay interpreting via 11-step language selector
- Low-noise push-buttons for switching between relay language and floor language
- Protocol of interpretation via 2 record outputs
- Slow-down button
- Robust and stable metal housing
- Power supply via base unit



Model	IT-12D
Description	interpretation console
Type	2 channels
Colour	black
Material	metal
Suitable for	IT-12M
Power supply	via IT-12M
Dimensions	330 x 56 x 206 mm
Weight	2.3 kg
Connections	headset connection, bal. XLR jacks, record outputs

Professional PLL Tour Guide System

- Bandwidth: 36 MHz
- 6 groups with up to 22 channels
- 124 channels
- 506-542 MHz
- Operating range: up to 200 m
- Operating time: approx. 10 hours
- There are restrictions or requirements within the EU!

TG-98TA/5

Order No. 0257410

Professional PLL pocket transmitter

- Built-in electret microphone
- 3.5 mm microphone connection
- Supplied with matching electret tie clip microphone
- Audio input via 3.5 mm jack
- LCD for indicating channel/group, RF, mute and battery status
- Lock function
- Mute function
- Volume level control
- Selectable transmitting power
- Belt clip and lanyard
- Parallel operation possible of up to 22 transmitters max.
- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones

Model	TG-98TA/5
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
Operating range	200 m
Power supply transmitter	2 x 1.2 V NiMH rech. batt. AA size (not supplied)
Dimensions transmitter	62 x 112 x 28 mm
Weight transmitter	72 g
Connections transmitter	1 x 3.5 mm jack (microphone), 1 x 3.5 mm jack (audio input)

There are restrictions or requirements within the EU!
Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



TG-98RA/5

Order No. 0257400

Professional PLL pocket receiver

- Built-in speaker
- 3.5 mm headphone connection
- Supplied with matching clip-on earphone with rubber ear hook
- Audio output via 3.5 mm jack
- LCD for indicating channel/group, RF and battery status
- Limiter function
- Automatic switch-off (power-saving function)
- Volume level control
- Belt clip and lanyard

Model	TG-98RA/5
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
Operating time	10 h
Power supply receiver	2 x 1.2 V NiMH rech. batt. AA size (not supplied)
Dimensions receiver	62 x 112 x 28 mm
Weight receiver	72 g
Connections receiver	1 x 3.5 mm jack (headphones), 1 x 3.5 mm jack (audio output)

There are restrictions or requirements within the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!



16-channel PLL Tour Guide System, 863-865 MHz

- With extensive accessories
- Operating range: up to 60 m
- Parallel operation of up to three wireless transmitters
- Licence-free in the EU

TG-10R/1

Order No. 0253070

PLL pocket receiver

- 3.5 mm headphone connection
- Supplied with matching earphone with rubber ear hook
- Channel selector button
- LED channel indicator
- Volume level control
- Belt clip and lanyard

Licence-free in the EU.

Induction loop NL-90 for signal transmission to a hearing device available at option.

Model	TG-10R/1
Carrier frequency range	863-865 MHz
Audio frequency range	40-18,000 Hz
Operating time	12 h
Power supply receiver	rech. lithium-ion batt. 3.7 V/1,300 mAh
Dimensions receiver	54 x 99 x 17 mm
Weight receiver	80 g
Connections receiver	1 x 3.5 mm jack (headphones)



TG-10T/1

Order No. 0253080

PLL pocket transmitter

- Built-in electret microphone
- 3.5 mm microphone connection
- Supplied with matching earband microphone CM-801F
- Channel selector button
- LED channel indicator
- Volume level control
- Belt clip and lanyard
- Connection cable 801TG with 3.5 mm plug is optionally available as a replacement for supplied connection cable

Licence-free in the EU.

Model	TG-10T/1
Carrier frequency range	863-865 MHz
Audio frequency range	40-18,000 Hz
Operating range	60 m
Power supply transmitter	rech. lithium-ion batt. 3.7 V/1,300 mAh
Dimensions transmitter	54 x 99 x 17 mm
Weight transmitter	80 g
Connections transmitter	1 x 3.5 mm jack (microphone)



TG-10STX/1

Order No. 0173730

16-channel PLL wireless transmitter

- 2 inputs (CH1/CH2) via rear comb. jacks, with level controls
- 1 input (CH3) via 6.3 mm mono jack
- Continuously adjustable headphone output
- 2 loop outputs
- Phantom power can be activated as required

Licence-free in the EU.

Model	TG-10STX/1
Carrier frequency range	863-865 MHz
Audio frequency range	40-15,000 Hz
Operating range	60 m
Power supply transmitter	via encl. power supply
Dimensions transmitter	214 x 45 x 240 mm
Weight transmitter	1.3 kg
Connections transmitter	2 x comb. jack (input CH1/CH2), 1 x 6.3 mm mono jack (input CH3), 1 x 3.5 mm stereo jack (headphones), 2 x 6.3 mm mono jack (loop outputs)



KA-10/1PACK

Order No. 0253120

Wireless 16-channel PLL audio transmission system for cameras

- Consisting of a portable audio transmitter and receiver
- Carrier frequency range: 863-865 MHz
- Transmitter and receiver with rechargeable lithium-ion batteries for reducing the weight and to ensure long operating times
- Transmitter can also be used for transmitting line signals (adjustment via recessed gain control)
- Receiver with 3-step PAD switch (0dB/-10 dB/-20 dB) for perfect level matching to the audio input of the camera
- Transmitter and receiver are fitted with a robust metal fixing clip
- Operating time: approx. 12 hours
- Supplied with lavalier microphone in skin design with windshield and tie clip, attachment clip for camera mounting, trim key, dual charging slot with plug-in switch-mode power supply, connection cable with 3.5 mm plug to 3.5 mm plug, connection cable with 3.5 mm plug to XLR plug

Model	KA-10/1PACK
Description	16-channel PLL audio transmission system
Carrier frequency range	863-865 MHz
Audio frequency range	40-18,000 Hz
THD	< 1%
Transmitting power	< 10 mW
Operating range	approx. 60 m
Power supply transmitter	3.7 V rech. lithium-ion battery
Dimensions transmitter	55 x 100 x 18 mm
Weight transmitter	80 g
Audio signal receiver	300 mV/7 kΩ (jack)
Power supply receiver	3.7 V rech. lithium-ion battery
Dimensions receiver	55 x 100 x 18 mm
Weight receiver	82 g
Connections receiver	1 x 3.5 mm jack (transmitter) 1 x 3.5 mm jack (receiver)



- Connection cable 801TG with 3.5 mm plug is available at option for certain JTS headband microphones

**Licence-free in the EU.
Supplied w/o camera.**

KA-8TH/1

Order No. 0254410

Hand-held UHF PLL transmitter

- Matching the wireless 16-channel PLL audio transmission system for cameras KA-10/1PACK or the PLL pocket receiver TG-10R/1
- Condenser cartridge with cardioid polar pattern
- Adjustable sensitivity
- Mute function
- Battery status indication and LCD for indicating channel

Model	KA-8TH/1
Polar pattern	cardioid
System	condenser
Carrier frequency range	863-865 MHz
Transmitting power	10 mW
Power supply	2 x batt. AA size, alkaline (not supplied)
Operating time	approx. 20 h
Audio frequency range	40-16,500 Hz
Power supply	2 x 1.5 V batt. AA size
Dimensions	Ø 51 mm x 260 mm
Weight	216 g



Licence-free in the EU.

BAG-ARM/S

Order No. 0236460

Arm bag

- Suitable for components TG-10T/1 and TG-10R/1 of the tour guide system
- Ideally suited for mobile applications

- Flexible, adjustable strap
- Removable bag with hook and loop fastener



BAG-BELT/S

Order No. 0236480

Belt bag

- Suitable for components TG-10T/1 and TG-10R/1 of the tour guide system
- Ideally suited for mobile applications
- Flexible, adjustable strap
- Removable bag with hook and loop fastener



TG-10CH2

Order No. 0252670

Charging station for transmitters TG-10T/1 and receivers TR-10R/1 as well as for KA-10 components.

- For simultaneously charging rech. batteries of 2 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 8 hours
- Each slot with LED for indicating battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge

Supplied w/o devices.

Model	TG-10CH2
Suitable for	2 x TG-10T/1, TG-10R/1, KA-10 components
Power supply	via encl. power supply
Dimensions	75 x 41 x 85 mm
Weight	485 g



TG-10CH18

Order No. 0252660

Transport case with integrated charging function, for transmitters TG-10T/1 and receivers TG-10R/1 as well as for KA-10 components.

- For simultaneously charging rech. batteries of up to 18 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 8 hours
- Each slot with LED for indicating battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge

Supplied w/o devices.

Model	TG-10CH18
Suitable for	18 x TG-10T/1, TG-10R/1, KA-10 components
Power supply	via encl. switch-mode power supply
Dimensions	361 x 422 x 189 mm
Weight	3.26 kg



TG-64CH18

Order No. 0259620

Transport case with integrated charging function, for transmitters and receivers of the TG-98 series as well as the TG-16 series.

- For simultaneously charging rech. batteries of up to 18 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 8 hours
- Each slot with LED for indicating battery charging status
- Mechanical reverse polarity protection

Model	TG-64CH18
Description	transport case with charging function
Colour	black
Suitable for	18 x TG-98RA/5, TG-98TA/5, TG-16RA/1, TG-16TA/1
Power supply	via encl. switch-mode power supply
Dimensions	362 x 422 x 189 mm
Weight	3.3 kg

- Protection against overload, short-circuit and deep discharge
- Supplied w/o devices.**



TG-10CH36

Order No. 0252680

Transport case with castors and integrated charging function, for transmitters TG-10T/1 and receivers TG-10R/1 as well as for KA-10 components.

- For simultaneously charging rech. batteries of up to 36 devices
- Average charging time, depending on condition of rechargeable batteries used: approx. 8 hours
- Each slot with LED for indicating battery charging status
- Mechanical reverse polarity protection
- Protection against overload, short-circuit and deep discharge

Model	TG-10CH36
Suitable for	36 x TG-10T/1, TG-10R/1, KA-10 components
Power supply	via encl. switch-mode power supply
Dimensions	400 x 561 x 230 mm
Weight	7.3 kg

- Robust hard-sided plastic transport case with carrying handle
 - Due to the integrated telescopic handle and 4 castors, the transport case can easily be pulled like a trolley
 - Can be locked via key
- Supplied w/o devices.**



Model	Page	Speech / Presentations	Vocals (solo)	Vocals (choir)	Drums / Percussion	Guitar amps	Bass amps	Acoust. Bass instruments	Wind instruments	Acoustic guitars	Bow instruments	Piano / Grand piano	Accordion	Harmonica	Film production / Features
CM-125IB	R130	•	•												
CM-125IF	R130	•	•												
CM-214F	R128	•	•												
CM-214U	R128	•	•												
CM-214ULF	R128	•	•												
CM-22G6W	R140			•											
CM-22G12B	R140			•											
CM-235IF	R128	•	•												
CM-501	R130	•													
CM-502	R139	•		•											
CM-502G6B	R140			•											
CM-502G6W	R140			•											
CM-502G12B	R140			•											
CM-502G12W	R140			•											
CM-502WT	R139	•		•											
CM-503N/B	R142	•													
CM-503N/W	R142	•													
CM-503U/B	R142	•													
CM-503U/W	R142	•													
CM-601	R138	•		•					•	•		•	•		
CM-602USB	R138	•		•					•	•		•	•		
CM-7	R15	•	•												
CM-801F	R129	•	•												
CM-804IF	R129	•	•												
CX-500	R131								•	•	•				
CX-500F	R131								•	•	•				
CX-500DUSET	R131							•		•	•				
CX-500FHW	R131								•						
CX-505	R132								•						
CX-508	R132								•						
CX-508W	R132								•						
CX-509	R139			•	•					•	•				
CX-516	R132								•		•	•	•		
CX-516W	R132								•		•	•	•		
CX-520	R132													•	
DM-710/DM-710S	R8	•													
DM-720/DM-720S	R8	•													
DM-730/DM-730S	R9	•	•												
FGM-170T	R142	•	•	•	•	•			•	•	•	•			
GM(L)	R141	•													
KA-8TH/1	R154	•													•
KA-10/1PACK	R154	•													•
NX-2	R133				•	•	•		•						
NX-6	R133				•	•			•	•		•			
NX-8	R134	•	•	•											
NX-8S	R134	•	•	•											
NX-8.8	R134	•	•	•											
NX-9	R133	•	•	•	•				•	•	•	•	•		
PDM-3	R136	•	•	•											
PDM-57	R136				•	•	•		•	•	•	•	•	•	
SGM-14	R139	•													•
ST-850	R143	•													
ST-5000	R143	•													
ST-5000T	R143	•													
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TK-600	R135	•	•	•											
TM-929	R135	•	•	•											

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- 801C3/B R130
- 801C4 R130
- 801C4/B R130
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All products of MONACOR INTERNATIONAL are tested continuously to ensure a constant quality level and to maintain quality standards. All products which are subject to the CE guidelines as well as the electric and electronic subassemblies which are subject to the directive for motor vehicles are tested according to the respective standards and carry the CE mark. These products can thus be sold in all EC countries without further tests or approvals.

General Information

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- We cannot be held responsible for printing errors, should they occur. We reserve the right to make technical changes without prior notice.
- Specifications stated are according to information provided by the manufacturer.
- Technical data may vary slightly due to production tolerances.
- Damage resulting from unauthorised servicing of the products thus causing changes as well as improper handling resulting in consequential damage are excluded from the warranty. We will not be liable for changes of the state of the products resulting from improper storage, other interventions or improper use.
- Lithium batteries have to meet special regulations for transportation and storage. Before dispatching such products, please pay attention to the safety notes in the section 'Downloads' on our website.
- If the devices are interfered with, the CE approval will no longer apply. All products are usually suitable for indoor use only, unless stated otherwise. The products are not suitable for installations into aircrafts or for surface mounting onto aircrafts.
- The devices do not correspond to the medical products directive 2007/47/EC.
- If the devices are permanently taken out of operation, they must be taken to a local recycling plant for disposal which is not harmful to the environment.

Technical Information

- Before first use of the products, please read the instruction manual carefully!
- The products correspond to the directive for electromagnetic compatibility 2014/30/EU, the directive 2011/65/EU (RoHS) with the addition EU/2015/863 and where applicable to the low voltage directive 2014/35/EU with the directive 2009/125/EC (ErP) and the regulation 2019/1782.
- When operating with voltages of over 42 V, please always follow respective safety measures.
- Before opening any product operated with 230 V mains voltage, disconnect device from the mains.
- Make sure that the supply voltage is disconnected before working on components and modules. Existing capacitors must be discharged.
- Mains cables and test cables must be checked for damage on a regular basis. Never pull on the cable to disconnect the plug from the socket.
- Mains cables and fuses must only be replaced by skilled personnel.
- Unless otherwise stated:
 - protect the products from moisture and heat,
 - always observe the admissible ambient temperature of 0–40 °C.
- Do not use a very high volume level when using headphones. Permanent high volume may damage your hearing! Do not wear headphones while particular attention must be paid to your surroundings, e.g. in traffic.
- A soldering process which is too long and too hot may cause damage to the corresponding products. Choose a soldering temperature that is suitable for the material used. No liability can be assumed for damage to the product or consequential damage caused by improper handling.
- The plugs, jacks, switches, rotary switches and potentiometers shown in this catalogue are only suitable for connection to safety extra low voltage (SELV) or signal voltage unless the item is designed for a higher voltage (see text or table).
- If the fixing nuts of panel jacks or panel plugs are overtightened, it may cause damage to the whole component. In case of improper handling, no liability can be assumed for this or any consequential damage.
- The heat must be eliminated by air circulation. Therefore, do not cover ventilation slots with anything. Do not put or drop anything through the ventilation slots. Otherwise, there will be danger of an electric shock.
- Only use a dry, soft cloth for cleaning the products. Chemicals must not be used in any case.
- LED lights and LED lamps contain various components which may generate noise in unfavourable conditions. There may be audible resonances caused by installation, design of the lamp and the base as well as dimmer or transformer.

Notes on Devices with Network/Internet Access

Please note that each device connected to a network with Internet access is part of a worldwide network. In order to protect your privacy and to prevent unauthorised people accessing your network and the devices connected, please protect your login details with an individual password prior to initial installation. Please take this into consideration when assigning future passwords in connection with devices, software and apps available in the network, e.g. when setting up user accounts. Passwords should never be disclosed to third parties! Furthermore, please note that any device which has been connected to the network should be reset before being sold or disposed of. This is the only way to ensure that all your personal data is erased permanently.

Information on the German Product Liability Act

According to the law dated 15 December 1989 governing product liability which was last amended by the law dated 19 July 2002, manufacturers, importers and retailers are obliged to compensate for damage caused by a faulty product under certain prerequisites.

A product can already be considered faulty if its presentation leaves a private, non-commercial end user with a wrong impression as to its safety in use or if it is to be expected that the private end user will not observe the required safety regulations when using the product or will apply an excessive operating voltage to it, except if this user has been informed as to the necessity to observe the safety regulations and specified voltages, etc.

In your own interest and for your customers' safety, therefore please draw your non-commercial customers' attention to the following:

The products listed in this catalogue may only be used for the stated purpose. If there are any doubts as to the purpose of the goods, questions must be clarified with an authorised expert or with the service department of MONACOR INTERNATIONAL.

The following EN standards and VDE (Verband Deutscher Elektrotechniker = Association of German Electrical Engineers) regulations must be observed:

Electromagnetic Compatibility:

EN300422, EN301489, EN55032, EN55103-1, EN55103-2, EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-3

Low Voltage Directive:

DIN VDE 0100, DIN VDE 0532, EN 62368-1, EN 60335, EN 60598, EN 61010, EN 62471

Motor Vehicles Directive:

Directive 2004/104/EC

In Germany, the above-mentioned regulations can be obtained from:

VDE-Verlag GmbH Bismarckstraße 33 10625 Berlin Germany Phone: +49 30 348001-0 Fax: +49 30 348001-9088	VDE-Verlag GmbH Postfach 120143 10591 Berlin Germany Phone: +49 69 840006-0 Fax: +49 69 840006-1399	VDE-Verlag GmbH Kaiserleistr. 8 A 63067 Offenbach Germany Phone: +49 69 840006-0 Fax: +49 69 840006-1399
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Notes Regarding the Approval of Wireless Systems

The wireless microphone systems in the frequency ranges 863 MHz to 865 MHz and 2,4 GHz are generally approved and licence-free in the EU.

The wireless systems in the frequency range 506 MHz to 542 MHz, 518 MHz to 542 MHz, 672 MHz to 694 MHz are generally approved according to directive 34/2020 and are licence-free in Germany.

Every wireless system has been examined by a notified body and has been approved in the EU according to the RED directive. However, a frequency assignment for the systems in the frequency range 740 MHz to 776 MHz, 823 MHz to 832 MHz and 1.8 GHz for the corresponding area in which the device is to be used must be applied for at the respective national authority. There are restrictions or requirements within the EU.

In Germany, the frequency assignment has to be applied for at the corresponding branch of the Federal Network Agency (BNetzA, Germany).

The declaration of conformity can be found on our website: www.monacor.com, www.img-stageline.com or www.jts-europe.com. The forms for the frequency assignment can be found on the website of the Federal Network Agency www.bundesnetzagentur.de. For countries outside of Europe, please consult the authorities of the corresponding country.

Please observe the notes in the operating instructions.

MONACOR INTERNATIONAL GmbH & Co. KG; October 2021

MONACOR INTERNATIONAL – Your reliable partner – worldwide.



THE AUDIO COMPANY

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