



audio

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POWER AMPS. STEREO

High quality professional stereo power amplifiers, highly stable and reliable.



200 + 200 W RMS 4 Ω
100 + 100 W RMS 8 Ω
360 W RMS, 8 Ω, bridge

360 + 360 W RMS 4 Ω
175 + 175 W RMS 8 Ω
550 W RMS, 8 Ω, bridge

500 + 500 W RMS 4 Ω
280 + 280 W RMS 8 Ω
780 W RMS, 8 Ω, bridge

625 + 625 W RMS 4 Ω
330 + 330 W RMS 8 Ω
1.100 W RMS, 8 Ω, bridge

	SA-403	SA-723	SA-1003	SA-1253
CHARACTERISTICS	Professional stereo power amplifier.	Professional stereo power amplifier.	Professional stereo power amplifier.	Professional stereo power amplifier.
POWER	200 + 200 W RMS at 4 Ω 100 + 100 W RMS at 8 Ω 360 W RMS at 8 Ω in bridge mode	Stereo mode: 360 + 360 W RMS at 4 Ω 175 + 175 W RMS at 8 Ω Bridge mode: 550 W RMS at 8 Ω	Stereo mode: 500 + 500 W RMS at 4 Ω 280 + 280 W RMS at 8 Ω Bridge mode: 780 W RMS at 8 Ω	Stereo mode: 625 + 625 W RMS at 4 Ω 330 + 330 W RMS at 8 Ω Bridge mode: 1100 W RMS at 8 Ω
FUNCTIONS	Forced ventilation LED power, signal and clip indicators	Forced ventilation LED power, signal and clip indicators	Forced ventilation LED power, signal and clip indicators	Forced ventilation LED power, signal and clip indicators
PROTECTION	4 circuits: temperature, DC, short circuit and overload	4 circuits: temperature, DC, short circuit and overload	4 circuits: temperature, DC, short circuit and overload	4 circuits: temperature, DC, short circuit and overload
CONTROLS	Volume per channel Stereo/bridge operating mode selector	Volume per channel Stereo/bridge operating mode selector	Volume per channel Stereo/bridge operating mode selector	Volume per channel Stereo/bridge operating mode selector
INPUTS	2 balanced auxiliary line inputs, XLR and 6.3 mm jack 20 000 Ω 1.1 V	2 balanced auxiliary line inputs, XLR and 6.3 mm jack 20 000 Ω 1.1 V	2 balanced auxiliary line inputs, XLR and 6.3 mm jack 20 000 Ω 1.1 V	2 balanced auxiliary line inputs, XLR and 6.3 mm jack 20 000 Ω 1.1 V
RESPONSE	20-20 000 Hz	20-20 000 Hz	20-20 000 Hz	20-20 000 Hz
DISTORTION	Harmonic: < 0.05% Intermodulation: < 0.05%	Harmonic: < 0.05% Intermodulation: < 0.05%	Harmonic: < 0.05% Intermodulation: < 0.05%	Harmonic: < 0.05% Intermodulation: < 0.05%
S/N RATIO	> 110 dB	> 400	> 400	> 400
DAMPING FACTOR	> 400	> 110 dB	> 100 dB	> 110 dB
OUTPUTS	Speakers: 4-8 Ω stereo, screw or speaker connector terminals 8 Ω mono bridge, speaker connector	Speakers: 4-8 Ω stereo, screw or speaker connector terminals 8 Ω mono bridge, speaker connector	Speakers: 4-8 Ω stereo, screw or speaker connector terminals 8 Ω mono bridge, speaker connector	Speakers: 4-8 Ω stereo, screw or speaker connector terminals 8 Ω mono bridge, speaker connector
POWER SUPPLY	230 V AC, 700 W maximum	230 V AC, 1000 W maximum	230 V AC, 1800 W maximum	230 V AC, 2000 W maximum
DIMENSIONS	483 x 89 x 410 mm depth 2 U 19" rack	483 x 89 x 410 mm depth 2 U 19" rack	483 x 89 x 410 mm depth 2 U 19" rack	483 x 89 x 410 mm depth 2 U 19" rack
WEIGHT	12 kg	12.5 kg	14 kg	14.5 kg



150 + 150 W RMS 4 Ω
100 + 100 W RMS 8 Ω

400 + 400 W RMS 4 Ω
300 + 300 W RMS 8 Ω

SA-204 **N!**

CHARACTERISTICS	Professional stereo power amp.	Professional stereo power amp.
STEREO POWER	150 + 150 W RMS at 4 Ω 100 + 100 W RMS at 8 Ω	Stereo mode: 400 + 400 W RMS at 4 Ω 300 + 300 W RMS at 8 Ω
VENTILATION	Forced	Forced ventilation LED power, protection and signal peak indicators
PROTECTION	3 circuits: temperature, short-circuit and surge	3 circuits: temperature, short-circuit and overload
CONTROLS		Volume per channel GND lift earth disconnection
INPUTS	2 unbalanced auxiliary lines, 6.3 mm jack and RCA 20 000 Ω 0.77 V	2 unbalanced auxiliary lines, 6.3 mm jack and RCA 20 000 Ω 0.77 V
INDICATORS	-	LED power, protection and signal peak indicators
RESPONSE	10-50 000 Hz	10-50 000 Hz
DISTORTION	Harmonic: < 0.05 %	Harmonic: < 0.05 %
DAMPING FACTOR	> 150	> 150
S/N RATIO	> 85 dB	> 90 dB
CROSSTALK	> 70 dB	> 70 dB
SLEW RATE	20 V/ μ s	30 V/ μ s
OUTPUTS	Loudspeakers: 4-8 Ω stereo, 6.3 mm mono jack, screw terminals and banana plugs or speaker connector	Loudspeakers: 4-8 Ω stereo, 6.3 mm mono jack, screw terminals and banana plugs or speaker connector
POWER SUPPLY	230/115 V AC, 700 W maximum	230/115 V AC, 1000 W maximum
DIMENSIONS	483 x 89 x 350 mm depth 2 U 19" rack	483 x 89 x 350 mm depth 2 U 19" rack
WEIGHT	8.2 kg	12 kg

POWER AMPS. STEREO

Professional class D digital stereo power amps. High quality audio, stable and reliable.



180 + 180 W RMS 4 Ω
100 + 100W RMS 8 Ω
360 W RMS, 8 Ω, bridge

DSA-200 **N!**

CHARACTERISTICS	Professional stereo power amp. Energy efficient class D amplifier circuit. Switched power supply.
POWER	Stereo mode: 180 + 180 W RMS at 4 Ω 100 + 100 W RMS at 8 Ω Bridge mode: 360 W RMS at 8 Ω
FUNCTIONS	Forced ventilation LED power, signal and peak signal indicators
PROTECTION	Soft start-up, temperature, short-circuit, overload, VHF, DC and AC
CONTROLS	Volume per channel Stereo/bridge operating mode selector GND lift earth disconnection
INPUTS	2 balanced auxiliary lines, XLR and 6.3 mm jack 20 000 Ω 1 V
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: < 0.1%
DAMPING FACTOR	> 200
S/N RATIO	> 100 dBA
SLEW RATE	20 V/μs
OUTPUTS	Speakers: 4-8 Ω stereo, screw terminals and banana plugs or speaker conector 8 Ω bridge mode, screw terminals and banana plugs
POWER SUPPLY	230/115 V AC, 100 W
DIMENSIONS	483 x 44 x 195 mm depth 1 U 19" rack
WEIGHT	2.7 kg

POWER AMPS. MULTICHANNEL

FONESTAR

Professional multichannel Hi-End power amplifier [high quality range].



4 x 150 W RMS 4-8 Ω
2 x 300 W RMS, 8 Ω, bridge

SA-4600

CHARACTERISTICS	Professional multichannel power amplifier. Hi-end analogue amplification circuit. Lightweight with switched power supply source.
POWER	4 x 150 W RMS at 4-8 Ω 2 x 300 W RMS at 8 Ω in bridge mode
INDICATORS	LED power indicator LED channel signal indicator
PROTECTION	4 circuits: short circuit, overload, temperature and signal displacement
CONTROLS	Operating and impedance selector mode Multichannel/bridge
INPUTS	4 AUX line inputs, Combo (XLR and 6.3 mm jack) and RCA 1 V at 8 Ω/750 mV at 4 Ω
RESPONSE	20-20 000 Hz
S/N RATIO	107 dB
DISTORTION	Harmonic: ≤ 0.04 %
OUTPUTS	Speakers: 4-8 Ω, screw terminals or banana plugs 8 Ω bridge mode. screw terminals or banana plugs
POWER SUPPLY	230 V AC, 800 W maximum
DIMENSIONS	435 x 133.5 (145 with feet) x 350 mm depth. 3 U 19" rack
WEIGHT	7 Kg
ACCESSORIES	Mounts for assembly in 19" rack

Professional multichannel power amplifier, 4 x 150 W RMS at 4 Ω, 4 x 85 W RMS at 8 Ω. High quality audio, Class AB amplification circuit. Suitable for commercial installations..



4 x 150 W RMS 4 Ω
4 x 85 W RMS 8 Ω
2 x 300 W RMS, 8 Ω, bridge

SA-4150

CHARACTERISTICS	Professional multichannel power amplifier. 4 channels with independent volume control.
POWER	4 x 150 W RMS at 4 Ω 4 x 85 W RMS at 8 Ω 2 x 300 W RMS a 8 Ω in bridge mode
INDICATORS	LED signal, protection and peak per channel
PROTECTION	Soft start, short circuit, overload, temperature and DC
CONTROLS	Volume per channel Parallel/stereo/bridge operating mode selector GND lift earth disconnection
INPUTS	4 auxiliary line inputs, combo (XLR and 6.3 mm jack) 0.775 V at 4 Ω
RESPONSE	20-20 000 Hz, +0.5 to -1 dB
S/N RATIO	> 95 dB
DISTORTION	Harmonic: < 1% Intermodulation: < 0.1 %
CROSSTALK	>60 dB
DISTORTION	> 100
OUTPUTS	4 RCA 0.775 V at 4 Ω Loudspeakers: 4 to 8 Ω multichannel, speaker connector 8 Ω bridge, speaker connector
POWER SUPPLY	230 V AC, 900 W maximum
DIMENSIONS	481 x 89 x 316 mm depth. 2 U 19" rack
WEIGHT	10 kg

MIXERS. AUTOAMPLIFIED

12-channel professional autoamplified mixer.

Incorporates USB/SD/MP3 player, processor with 16 effects, graphic equalizer. High power output with different operating modes, audio quality and reliability.



400 + 400 W max. 4 Ω
250 + 250 W max. 8 Ω

USB

SD

MP3

SMA-12800U **N!**

CHARACTERISTICS	12-channel professional autoamplified mixer USB/SD/MP3 player 16 digital effects processor 7-band graphic equalizer Remote control for MP3 player
POWER	400 + 400 W RMS at 4 Ω 250 + 250 W RMS at 8 Ω
USB PLAYER	Plays MP3 files USB port for USB drive connection SD card reader Accepts drives of up to 32 GB ID3 tag
INPUTS	12 balanced mono mic./unbalanced line channels, XLR/6.3 mm jack 1 unbalanced mono auxiliary return, 6.3 mm jack
CONTROLS	Mic./line: gain, attenuation, treble, mid, bass, auxiliary, effects, pan, PFL and sliding volume USB/SD/MP3 player: play/pause, stop, fast forward and rewind, volume Main L/R: sliding volume Effects: effect level, repeat and sliding volume Effect selector
FUNCTIONS	Cueing through headphones assigned to each channel LED peak level per channel indicator LED main output level indicators
OUTPUTS	Unbalanced main stereo, 2 x XLR/6.3 mm jack 1 unbalanced mono auxiliary send, 6.3 mm jack 1 stereo headphone, 6.3 mm jack Stereo loudspeakers, 2 groups, 4-8 Ω, 6.3 mm jack 1 stereo rec, 2 x RCA
RESPONSE	20-20 000 Hz
POWER SUPPLY	230/115 V AC
DIMENSIONS	615 x 170 x 445 mm depth
WEIGHT	14 kg

Professional 8-channel autoamplified mixer. USB/SD/MP3 player and 16 digital effects, graphic equalizer and limiter compressor. Output for speakers with different operation modes. Sound quality and reliability.



240 + 240 W RMS 4 Ω
150 + 150 W RMS 8 Ω
370 W RMS, 8 Ω, bridge

USB

SD

MP3

MPEG

SMA-252U

CHARACTERISTICS	Professional 8-channel autoamplified mixer. USB/SD/MP3 player. 16 digital effects. Graphic equalizer. Output signal router to the amplifier for different operating modes, L/R, L+R/monitor and bridge mode. Limiter compressor.
POWER	450 + 450 W maximum, 240 + 240 W RMS at 4 Ω 220 + 220 W maximum, 150 + 150 W RMS at 8 Ω 800 W maximum, 370 W RMS at 8 Ω in bridge mode
INPUTS	6 balanced mono mic./line channels, XLR/ 6.3 mm jack 2 balanced mono mic./unbalanced stereo line channels, XLR/2 x 6.3 mm jack 1 unbalanced mono aux in, 6.3mm jack 1 stereo tape 2 x RCA
OUTPUTS	1 unbalanced mono main, 6.3 mm jack 1 unbalanced mono monitor, 6.3 mm jack 1 unbalanced mono effects, 6.3 mm jack 1 stereo recording output, 2 x RCA 4 for loudspeakers depending on the operating mode, 6.3 mm mono jack
RESPONSE	20-20 000 Hz
POWER SUPPLY	230/115 V AC, 700 W
DIMENSIONS	490 x 300 x 300 mm depth
WEIGHT	14.2 kg

Professional 12-channel autoamplified mixer. USB/MP3 player, DSP processor with 100 effects, graphic equalizer with feedback tracer and limiter compressor incorporated. High power output with different operating modes. Audio quality and reliability.



390 + 390 W RMS 4 Ω
240 + 240 W RMS 8 Ω
738 W RMS, 8 Ω, bridge

USB

MP3

MPEG

SMA-912USB

CHARACTERISTICS	Professional 12-channel autoamplified mixer. USB/MP3 player. 24 bits DSP multieffects. Graphic equalizer with feedback locator. Output signal router to the amplifier for different operating modes, L/R, L+R/monitor and bridge mode. Limiter compressor.
POWER	390 + 390 W RMS at 4 Ω 240 + 240 W RMS at 8 Ω 738 W RMS at 8 Ω in bridge mode
INPUTS	6 mono channels, balanced mics./lines, XLR/6.3 mm jack. 3 stereo channels, balanced mics./lines, combo (XLR and 6.3 mm jack) and 6.3 mm jack 1 stereo fx return, 6.3 mm jack 1 stereo tape in, 2 x RCA/3.5 mm jack
OUTPUTS	1 unbalanced stereo main, 6.3 mm jack 1 unbalanced mono monitor, 6.3 mm jack 1 unbalanced mono fx send, 6.3 mm jack 1 stereo tape out, 2 x RCA 2 for speakers depending on the operating mode, 2 x speaker connector
RESPONSE	20-20 000 Hz
POWER SUPPLY	230/115 V AC, 1300 W
DIMENSIONS	580 x 275 x 280 mm depth
WEIGHT	16.8 kg

MIXERS. DJ

Professional 3-channel stereo mixer for DJ use with USB/SD/MP3 player incorporated.



USB

SD

MP3

MPEG

SM-1621U

CHARACTERISTICS	Professional mixer with 6 inputs, 3 channels and 2 outputs with independent volume controls. USB/SD/MP3 player.
USB PLAYER	MP3 file player USB port for USB drive connection SD card reader It accepts drives of up to 32 GB ID3 tag
INPUTS	1 balanced mic. combo (XLR and 6.3 mm jack), 600 Ω 1.5 mV 1 phono/line, 2 x RCA 56 000 Ω 3 mV and 47 000 Ω 300 mV 2 phono, 2 x RCA, 56 000 Ω 3 mV 2 lines, 2 x RCA, 47 000 Ω 150 mV
CONTROLS	Mic.: gain, treble (-32, +12 dB, 10 000 Hz), mid (-32, +12 dB, 1200 Hz), bass (-32, +12 dB, 50 Hz), input selector, PFL, talkover and sliding volume Phono/line: gain, treble (-32, +12 dB, 10 000 Hz), mid (-32, +12 dB, 1200 Hz), bass (-32, +12 dB, 50 Hz), input selector, PFL and sliding volume USB/SD player: play/pause, stop, repeat, fast forward and song rewind, gain, treble (-32, +12 dB, 10 000 Hz), mid (-32, +12 dB, 1200 Hz), bass (-32, +12 dB, 50 Hz), input selector, PFL and sliding volume Master: balance, volume and output level LED indicator Booth: volume Cueing: volume and allocation control CUE/MASTER Crossfader: sliding control, adjustable bend and reversible mode
FUNCTIONS	Cueing through PFL headphones, assignable for each channel Replaceable crossfader with adjustable bend and reversible mode Sliding controls per channel 3-band equalizer per channel Talkover in channel 1 LED level indicator for the master output
OUTPUTS	Master (2 x XLR and 2 x RCA), booth (2 x RCA), recording (2 x RCA), stereo headphones (6.3 mm jack)
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: 0.05 %
S/N RATIO	> 87 dB
POWER SUPPLY	230/115 V AC, 10 W maximum
DIMENSIONS	245 x 101 x 315 mm depth
WEIGHT	3.1 kg

Professional 6-channel stereo mixer for DJ use with USB/SD/MP3 player incorporated.


USB
SD
MP3
MPEG

SM-1632U

CHARACTERISTICS	Professional mixer with 8 inputs, 6 channels and 2 master outputs with independent volume controls. USB/SD/MP3 player. BPM beat and sync indicator. Assignable crossfader
USB PLAYER	MP3 file player USB port for USB memory connection SD/MMC card reader Accepts memories of up to 32 Gb ID3 tag
INPUTS	2 balanced mics. combo (XLR and 6.3 mm jack), 600 Ω 1.5 mV 2 phono 2 x RCA, 50 000 Ω 3 mV 4 lines 2 x RCA, 100 000 Ω 100-150 mV 2 inserts for mic. RCA input/output, 10 000 Ω 775 mV
CONTROLS	Mics: Gain, bass suppression filter (18 dB, 75 Hz), bass (± 15 dB, 50 Hz), mids with frequency selector (± 15 dB, 250-6000 Hz), treble (± 15 dB, 12 000 Hz), PFL and sliding volume Phono/line: input selector, gain, bass (+12, -26 dB), mids (+12, -26 dB), treble (+12, -26 dB), PFL and sliding volume USB/SD player: fast forward and rewind for songs, volume, play/pause, bass, mids with frequency selector, PFL and sliding volume Master 1: balance, sliding volume, stereo/mono and output level LED indicator Master 2: balance and volume y estéreo/mono
FUNCTIONS	Cueing through PFL headphones assignable to each channel Replaceable crossfader and assignable between channels 1, 2, 3 or off BPM indicator in the channels assigned to the crossfader LED indicators to show synchronisation between the channels assigned to the crossfader 3-band equalizer per channel LED indicator for the master 1 output level
OUTPUTS	Master 1 (2 x XLR and 2 x RCA), master 2 (2 x RCA), recording (2 x RCA), stereo headphones (6.3 mm jack)
RESPONSE	20 - 20 000 Hz
DISTORTION	Harmonic: 0.01%
S/N RATIO	Mic: 60 dB Phone: 70 dB Line: 80 dB
POWER SUPPLY	230/115 V AC, 100 W maximum
DIMENSIONS	483 x 94.5 x 266 mm depth. 6 U 19" rack
WEIGHT	5.8 kg

MIXERS. DJ

Professional mixer with 12 inputs, 8 channels [3 microphones and 5 lines], with USB/SD/MP3 player, assignable to 2 master outputs with independent volume control. Talk over function and cueing through the headphones.



USB

SD

MP3

MPEG

SM-1860U

CHARACTERISTICS	Professional mixer with 12 inputs, 8 channels, assignable to 2 master outputs with independent volume control. USB/SD/MP3 player.
USB PLAYER	MP3 files are played from USB/SD or from the PC USB port for USB flash drive connection and connection to PC as an audio USB device SD card reader ID3 tag
INPUTS	1 balanced mic. combo (XLR and 6.3 mm jack), 1700 Ω 4 mV, 2 balanced mics., XLR, 1700 Ω 4 mV 7 unbalanced stereo lines 22 000 Ω 100 mV and 2 phono/aux 2 x RCA 47 000 Ω 2 mV and 47 000 Ω 100 mV
CONTROLS	MIC1: volume, bass (± 12 dB, 100 Hz), treble (± 12 dB, 10 000 Hz), echo effect and talkover MIC2 and MIC3: volume, bass (± 12 dB, 100 Hz), and treble (± 12 dB, 10 000 Hz) and echo effect Input channels: input selector, sliding volume, allocation to master 1, master 2 and headphone CUE. LED indicator for the allocation to each output. Master 1 and Master 2: volume, bass (+12, -32 dB, 100 Hz), mid (+12, -32 dB, 1500 Hz) and treble (+12, -32 dB, 10 000 Hz), mid and treble, balance and level LED indicator Booth output: Volume control Headphone output: Volume control USB/SD player: play/pause, menu access, equalization and repeat mode, fast forward and rewind for songs and volume control
FUNCTIONS	Allocation matrix with 5 input channels to 2 master outputs CUE through headphones, assignable for each channel 3-band equalizer in master outputs LED master 1 and 2 output level indicators Talk over for level reduction in the MIC 1 input
OUTPUTS	Master 1 (2 x XLR and 2 x RCA), Master 2 (2 x RCA), REC (2 x RCA), booth (2 x RCA) and stereo headphones (6.3 mm jack)
RESPONSE	20-20 000 Hz
S/N RATIO	Mic.: 65 dB Phono: 55 dB Line/Aux: 75 dB
POWER SUPPLY	230/115 V CA, 10 W maximum
DIMENSIONS	483 x 89 x 205 mm depth. 2 U 19" rack
WEIGHT	4 kg

7-channel stereo mixer [2 mics and 5 lines], which can be individually allocated to 3 outputs with independent volume control. Talkover function and PFL through earphones.



SM-1870

CHARACTERISTICS	Professional 12-input mixer with 7 channels assignable to 3 master outputs with independent volume control.
INPUTS	2 combo mics (XLR and 6.3 mm jack), 8 lines and 2 phono (2 x RCA)
CONTROLS	Mics: volume, bass/treble and mid tone control, on/off, allocation to outputs and LED level indicator Line: Input selector, sliding volume, allocation to output zones and LED signal indicator Output zones: Volume, bass/mid and treble tone controls and LED level indicator Talk over, earphone output, etc.
FUNCTIONS	Matrix allocation for 7 input channels to 3 outputs. Talk over to reduce mic. levels
OUTPUTS	Master 1, 2 and 3 (2 x XLR and 2 x RCA), recording (2 x RCA) and stereo earphones (6.3 mm jack)
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: 0.03%
S/N RATIO	> 65 dB
POWER SUPPLY	2 x 15 V AC, 60 W with adapter included
DIMENSIONS	483 x 89 x 117 mm depth. 2 U 19" rack
WEIGHT	2.5 kg

Compact 2-channel mixer and USB/MP3 player.

SM-505U

CHARACTERISTICS	Compact 2-channel mixer. USB/MP3 player.
INPUTS	2 unbalanced mics., 6.3 mm jack, 20 mV 2 stereo line/phono, 2 x RCA, 800 mV and 15 mV
CONTROLS	Sliding volume per channel USB/MP3 player volume Line/phono input signal selectors Output signal type selector: mono, stereo Volume and balance for microphones Crossfader Headphone volume
FUNCTIONS	Output level LED indicator USB/MP3 player for memories of up to 32 GB Talk over for level reduction with mic.
OUTPUTS	1 stereo master, 2 x RCA, 5 V maximum 1 stereo headphones, 6.3 mm jack
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: <0.025%
S/N RATIO	> 80 dB
POWER SUPPLY	12 V AC, 4.2 W maximum with adapter included
DIMENSIONS	235 x 50 x 135 mm depth
WEIGHT	1 kg
ACCESSORIES	2 audio cables with RCA connectors



USB

MP3

MPEG



MIXERS. STUDIO SERIES

Professional stereo mixers, STUDIO series. Compact 3-channel mixer with audio USB input/output for connection to PC.



USB

SM-303SC

CHARACTERISTICS	Compact 3-channel mixer. Audio USB input/output for connection to PC.
INPUTS	1 balanced mic./line, combo (XLR and 6.3 mm jack) 1 line, 2 x RCA 1 stereo CD/tape in, 2 x RCA 1 audio USB
CONTROLS	Channel 1: gain, bass (± 15 dB, 80 Hz), treble (± 15 dB, 12 000 Hz), pan and volume control Channel 2/3: Bass (± 15 dB, 80 Hz), treble (± 15 dB, 12 000 Hz), balance, volume control and line or USB input type selector Master: Volume control, monitor volume control CD/tape: main and/or monitor output allocation
FUNCTIONS	LED power indicator LED channel 1 peak indicator LED indicators for the excess master output signal (clip)
OUTPUTS	1 stereo main, 3.5 mm jack 1 stereo monitor, 3.5 mm jack 1 stereo CD/Tape out, 2 x RCA 1 audio USB
PHANTOM	20 V
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: 0.01%
POWER SUPPLY	5 V DC, 500 mA with adapter included or through USB
DIMENSIONS	98 x 42 x 135 mm depth
WEIGHT	0.4 kg
ACCESSORIES	Male USB A to male USB B cable AC/DC adapter with female USB A output connector

12-channel compact stereo mixer [4 microphone and 4 stereo lines] with phantom power supply.



SM-3190

CHARACTERISTICS	Professional compact 12-channel mixer.
INPUTS	4 balanced mic./line mono channels, XLR/6.3 mm jack. 4 stereo channels or balanced auxiliary mono lines, 2 x 6.3 mm jack 1 stereo CD/tape in, 2 x RCA
CONTROLS	8 controls per mono channel : gain, treble, mid, bass, bass filter, auxiliary send, pan/balance and volume Sliding main output volume control.
FUNCTIONS	LED peak level per channel indicator. LED main output level, CD/tape in or auxiliary send indicator.
OUTPUTS	1 unbalanced stereo main, 2 x 6.3 mm jack 1 unbalanced mono auxiliary, 6.3 mm jack 1 unbalanced stereo control room, 2 x 6.3 mm jack 1 stereo CD/tape out, 2 x RCA 1 stereo headphones, 6.3 mm jack.
PHANTOM	48 V
RESPONSE	20-20 000 Hz
POWER SUPPLY	18 V AC x 2, 650 mA with adapter included
DIMENSIONS	272 x 41 x 259 mm depth
WEIGHT	1.8 kg

Professional compact stereo mixers with USB/MP3 player incorporated, 3 and 6 channels.


USB
SD
MP3
MPEG

SM-2400U

CHARACTERISTICS	Professional compact 3-channel mixer. USB/MP3 player.
USB PLAYER	MP3 file player USB port for USB drive connection It accepts drives of up to 32 GB
INPUTS	2 balanced mics. XLR, 2500 Ω 2.5 mV or 2 balanced lines, 6.3 mm jack, 47 000 Ω 250 mV 2 inserts, 6.3 mm jack, 47 000 Ω 775 mV 1 stereo line 2 x RCA, 10 000 Ω 250 mV or unbalanced 2 x 6.3 mm jack, 47 000 Ω 775 mV
CONTROLS	Mics./lines: gain, bass (± 15 dB, 100 Hz), mid (± 15 dB, 1000 Hz), treble (± 15 dB, 10 000 Hz), auxiliary send, sending to effects bus, pan and sliding volume USB/MP3 player: play/pause, fast forward, rewind and volume Aux: Volume control Eff: Volume control, delay and repeat Main: Sliding volume Headphone output: Volume control
FUNCTIONS	3-band equalizer per channel LED excess signal and master output level indicator Echo with repeat controls and time
OUTPUTS	Main (unbalanced 2 x 6.3 mm jack and 2 x RCA), mono aux (unbalanced 6.3 mm jack), mono effect (unbalanced 6.3 mm jack) and stereo headphones (6.3 mm jack)
PHANTOM	48 V
RESPONSE	20 - 20 000 Hz
DISTORSION	Harmonic < 0.1 %
POWER SUPPLY	230 V AC, 20 W maximum
DIMENSIONS	255 x 63 x 240 mm depth
WEIGHT	2.6 kg
OPTIONAL	-


USB
SD
MP3
MPEG

SM-2700U

CHARACTERISTICS	Professional compact 6-channel mixer. USB/SD/MP3 player.
USB PLAYER	MP3 file player USB port for USB drive connection SD card reader It accepts drives of up to 32 GB ID3 tag
INPUTS	5 balanced mics., XLR, 2500 Ω 2.5 mV or 5 balanced lines, 6.3 mm jack, 47 000 Ω 250 mV 5 inserts, 6.3 mm jack, 47 000 Ω 775 mV 1 stereo line 2 x RCA, 10 000 Ω 250 mV or unbalanced 2 x jack 6.3 mm, 47 000 Ω 775 mV
CONTROLS	Mics./lines: gain, bass (± 15 dB, 100 Hz), mid (± 15 dB, 1000 Hz), treble (± 15 dB, 10 000 Hz), auxiliary sender, sending to effects bus, pan and sliding volume USB/SD/MP3 player: means selector, play/pause, stop, repeat and song fast forward and rewind Aux: volume control Eff: volume control, delay and repeat Main: Sliding volume Headphone output: Volume control
FUNCTIONS	3-band equalizer per channel LED excess signal and master output level indicator Echo with repeat controls and time
OUTPUTS	Main (unbalanced 2 x 6.3 mm jack and 2 x RCA), mono aux (unbalanced 6.3 mm jack), mono effect (unbalanced 6.3 mm jack) and stereo headphones (6.3 mm jack)
PHANTOM	48 V
RESPONSE	20-20 000 Hz
DISTORSION	Harmonic < 0.1 %
POWER SUPPLY	230 V AC, 20 W maximum
DIMENSIONS	405 x 63 x 240 mm depth
WEIGHT	3.8 kg
OPTIONAL	SM-A3: mounts for assembly in 19" rack

SM-A3

Mounts for assembling the SM-2700U mixer in a 5.5 U 19" rack
COLOUR: Black
WEIGHT: 0.4 kg



SM-A3 + SM-2700U

MIXERS. STUDIO PRO SERIES

Professional 12-channel stereo mixer with USB/SD/MP3 player incorporated, digital effects processor and multiple outputs.

8 CH MONO
+
4 STEREO



USB

SD

MP3

MPEG



SM-3512U

CHARACTERISTICS	Professional 12-channel mixer with 2 outputs, with independent volume controls. USB/SD/MP3 player. 16 digital effects processor.
USB PLAYER	MP3 file player USB port for USB drive connection SD card reader It accepts drives up to 8 GB ID3 tag
INPUTS	8 balanced mics., XLR, 150 Ω 1.5 mV or 8 balanced lines, 6.3 mm jack, 20 000 Ω 150 mV 2 balanced stereo lines, 2 x 6.3 mm jack, 20 000 Ω 150 mV 2 balanced stereo returns, 2 x 6.3 mm jack, 20 000 Ω 1 V 1 tape input, 2 x RCA, 20 000 Ω 150 mV
CONTROLS	Mic./line: Bass suppression filter (18 dB, 75 Hz), gain, bass (± 15 dB, 80 Hz), mid (± 15 dB, 2500 Hz), treble (± 15 dB, 12 000 Hz), auxiliary send, EFX send, pan, mute-alt 3-4, PFL and sliding volume USB/SD player: play/pause, stop, repeat, fast forward and rewind, and allocation to channel 11/12 Main: sliding volume Alt-3-4: Sliding volume Control Room/Phones/LED indicator: source selection and volume CD/Tape: allocation to the main output Auxiliary send: volume control Auxiliary returns: volume control and allocation to main/alt 3-4 Effects processor: Effect selection
FUNCTIONS	Cueing through PFL headphones, assignable to each channel Sliding controls per channel 3-band equalizer per channel LED indicator for excess signal and master output level
OUTPUTS	Master (balanced, 2 x XLR), alt 3-4 (balanced, 2 x 6.3 mm jack), control room (balanced, 2 x 6.3 mm jack), recording (2 x RCA), 2 auxiliary send (unbalanced, 6.3 mm jack), stereo headphones (6.3 mm jack)
PHANTOM	48 V, selectable
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: 0.05 %
S/N RATIO	> 82 dB
POWER SUPPLY	100-240 V AC, 20 W maximum
DIMENSIONS	385 x 80 x 338 mm depth
WEIGHT	4.2 kg

SM-A3

Mounts for assembling the SM-2700U mixer in a 5.5 U
19" rack
Colour: Black
Weight: 0.4 kg



Professional 20-channel stereo mixer with USB/SD/MP3 player incorporated, digital effects processor and multiple outputs.

16 CH MONO
+
2 STEREO



USB

SD

MP3

MPEG

SM-3520U

CHARACTERISTICS	Professional 20-channel mixer with 2 outputs with independent volume controls. USB/SD/MP3 player. 16 digital effects processor.
USB PLAYER	MP3 file player USB port for USB drive connection SD card reader It accepts drives up to 8 GB ID3 tag
INPUTS	16 balanced XLR mics., 150 Ω 1.5 mV or 8 balanced lines, 6.3 mm jack, 20 000 Ω 150 mV 2 balanced stereo lines, 2 x 6.3 mm jack, 20.000 Ω 150 mV 2 balanced stereo returns, 2 x 6.3 mm jack, 20 000 Ω 1 V 1 tape input, 2 x RCA, 20 000 Ω 150 mV
CONTROLS	Mic./line: Bass suppression filter (18 dB, 75 Hz), gain, bass (± 15 dB, 80 Hz), mid (± 15 dB, 2.500 Hz), treble (± 15 dB, 12 000 Hz), auxiliary send, EFX send, pan, mute-alt 3-4, PFL and sliding volume USB/SD player: play/pause, stop, repeat, fast forward and rewind and allocation of channel 11/12 Main: Sliding volume Alt 3-4: Sliding volume Control room/phones/LED indicator: source selection and volume CD/tape: allocation to the main output Auxiliary sending: Volume control Auxiliary return: Volume control and allocation to Main/Alt 3-4 Effects processor: Effect selection
FUNCTIONS	Cueing through PFL headphones, assignable to each channel Sliding controls per channel 3-band equalizer per channel LED indicator for excess signal and master output level
OUTPUTS	Master (balanced, 2 x XLR), alt 3-4 (balanced, 2 x 6.3 mm jack), control room (balanced, 2 x 6.3 mm jack), recording (2 x RCA), 2 auxiliary send (unbalanced, 6.3 mm jack), stereo headphones (6.3 mm jack)
PHANTOM	48 V, selectable
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: 0.007 %
S/N RATIO	> 82 dB
POWER SUPPLY	100-240 V AC, 20 W maximum
DIMENSIONS	612 x 80 x 338 mm depth
WEIGHT	6.5 kg

MIXERS. ACCESSORIES

DJ tray rack for turntables, CD players, laptop computers, etc. The perfect accessory for the DJ booth.



FMS-30

CHARACTERISTICS	DJ tray rack for turntables, CD players, laptop computers, etc. Very stable 5 cm steel base, height adjustable arm and upper tray can be turned in all directions. Black granulated paint finish.
ADJUSTABLE HEIGHT	30 to 40 cm
DIMENSIONS	Base: 48 x 45 cm Upper Tray: 32 x 37 cm
WEIGHT	9.5kg

Lamps.



FL-3

CHARACTERISTICS	Lamp for mixers, etc. With 30 cm gooseneck and BNC connector for installation. 12 V DC, 5 W
WEIGHT	0.2 kg



FL-1L

CHARACTERISTICS	Lamp for mixers, etc. High luminosity LEDs. With 30 cm gooseneck and XLR connector for installation. 12 V DC
WEIGHT	0.1 kg

RELATED PRODUCTS



FRC-291

Flight case for professional mixer or similar equipment.
Page 303.

AUXILIARY EQUIPMENT. ACCESSORIES

FONESTAR

Noise filter earth insulator for stereo line. Eliminates noises and buzzing generated by interference and ground loops that are produced when different audio equipment is connected.



FAM-80

FAM-83X

CHARACTERISTICS	Noise filter and earth insulator for stereo line. Eliminates noises and buzzing.	Noise filter and earth insulator. Eliminates noise and buzzing in balanced and unbalanced lines. Prevents mass loops and balances unbalanced signals.
INPUTS	1 stereo auxiliary line, 2 x RCA	2 balanced auxiliary lines, combo (XLR and 6.3 mm jack)
OUTPUTS	1 stereo auxiliary line, 2 x RCA	2 balanced auxiliary lines, combo (XLR and 6.3 mm jack)
RESPONSE	20-20 000 Hz	10-50 000 Hz
DIMENSIONS	42 x 31 x 67 mm depth	115 x 40 x 85 mm depth
WEIGHT	0.1 kg	0.4 kg

Active Direct injection box for connecting an unbalanced high impedance signal [guitars, keyboards, etc.] directly to a balanced input on a mixer with XLR connector. Power supply using a 9V 6LR61 battery or 20 to 48 V phantom supplied by the mixer.



CI-4A

CHARACTERISTICS	Active Direct injection box. Converts 1 unbalanced input into 1 balanced XLR output for using with long lengths of cable. For connecting instruments such as guitars, bass, etc. to the balanced microphone input with XLR connector of a mixer. Robust construction.
INPUTS	1 unbalanced line, XLR and 6.3 mm jack, 50 000 Ω , 13 to 33 dBu
OUTPUTS	1 balanced line XLR, 600 Ω , 1.5 V 1 link, 6.3 mm jack, 50 000 Ω
CONTROLS	Attenuation selector 0, 20, 40 dB GND lift earth disconnection
RESPONSE	10-30 000 Hz $\pm$ 1 dB
DISTORTION	Harmonic: <0.02% at 1 KHz Background noise: -108 dBu
INDICATORS	LED power indicator
POWER SUPPLY	1 x 9V 6LR61 battery or 20 to 48 V phantom power supply
DIMENSIONS	130 x 45 x 127 mm depth
WEIGHT	0.6 kg

AUXILIARY EQUIPMENT. PLAYERS

Professional CD/USB/SD/MP3 player, DJ series, for discos, bars, etc..

- CD
- USB
- SD
- MP3
- MPEG
- GAPLESS
CD AUDIO



CD-4100UDJ

CHARACTERISTICS	CD/USB/SD/MP3 player. CD reading mechanism with front slot in system. USB port for memory connection and hard discs with FAT32 format. SD card reader.
FUNCTIONS	Effects: scratch (vinyl), brake and reverse Gapless (without pauses) in audio CD. Manual BPM rhythm counter Loop playback Cue playback point Control pitch on/off $\pm 4/8/16\%$, pitch bend $\pm 16\%$ Repeat and playback program Single or continuous playback mode Viewing of elapsed time, remaining time of song and total remaining time Manual tap tempo
RESPONSE	20-20 000 Hz
OUTPUTS	1 stereo audio, 2 x RCA
POWER SUPPLY	100-240 V AC, 20 W
DIMENSIONS	225 x 115 x 290 mm depth
WEIGHT	2 kg

Professional desktop CD/MP3 DJ players for discos, bars, etc.

- CD
- SEAMLESS
LOOP
- ANTI-SHOCK
BUFFER
MEMORY
- MP3
- MPEG
- ID3
TAG



CD-6900DJ

CHARACTERISTICS	Double CD player. Reproduces CD/MP3. ID3 tag in MP3 files. Compatible with CD-audio, CD-R and CD-RW. 10 second anti-shock buffer memory.
CONTROLS	Control wheel with search/skip function. Matrix screen
FUNCTIONS	BPM rhythm counter Playback in loop Cue point playback Control wheel with search/skip functions Speed adjustment for pitch control playback and $\pm 8\%$ and $\pm 16\%$ pitch bend Repeat and playback program Single or continuous playback mode Viewing of time passed, time left of song and total time left
OUTPUTS	Analogue audio, 2 x RCA through each player Digital audio (only audio CD), RCA through each player
FREQUENCY RESPONSE	20-20 000 Hz
S/N RATIO	> 70 dB
DISTORTION	Harmonic: <0.01%
POWER SUPPLY	230 V AC, 35 W
DIMENSIONS	Main unit: 482 x 89 x 257 mm depth. 2 x 19" U rack. Control unit: 482 x 89 x 46 mm depth. 2 x 19" U rack
WEIGHT	7.6 Kg
ACCESSORIES	2 audio cables with RCA connectors

CD-4400DJ



CD

FASTCUE

SEAMLESS
LOOP

ANTI-SHOCK
BUFFER
MEMORY

CD-4500DJ



CD

FASTCUE

SEAMLESS
LOOP

ANTI-SHOCK
BUFFER
MEMORY

MP3

MPEG

CD-4400DJ

CD-4500DJ

CHARACTERISTICS	Double CD player. Compatible with CD-audio, CD-R and CD-RW. 40 second anti-shock buffer memory.	Double CD player. Reproduces CD/MP3. Compatible with CD-audio, CD-R and CD-RW. 40 second anti-shock buffer memory.
CONTROLS	Metal record-player style control wheel with double search/pitch function. LCD screen with blue backlight	Metal record-player style control wheel with double search/pitch function LCD screen with blue backlight
FUNCTIONS	Automatic switching between players with robo function Seamless loop: loop playback without interruptions Reloop: Playback of the last memorized loop Cue playback point Quick start up Control wheel with shuttle/jog search functions and pitch playback speed adjustment Playback speed adjustment for pitch control $\pm 16\%$ and pitch bend $\pm 16\%$ Repeat and playback program Single or continuous playback mode Viewing of time passed, time left of song and total time left	Direct selection number buttons Automatic switching between players with robo function Seamless loop: Loop playback without interruptions Reloop: Playback of last memorized loop Cue playback point Quick start Control wheel with shuttle/jog search functions and playback pitch speed adjustment Speed adjustment for pitch control $\pm 16\%$ and pitch bend $\pm 16\%$ playback Repeat and playback program Single or continuous playback mode Viewing of time passed, time left of song and total time left
OUTPUTS	Analogue audio, 2 x RCA through each player	Analogue audio, 2 x RCA through each player
RESPONSE	20-20 000 Hz	20-20 000 Hz
S/N RATIO	> 70 dB	> 70 dB
DISTORTION	Harmonic: < 0.01%	Harmonic: < 0.01%
POWER SUPPLY	230/115 V AC	230/115 V AC
DIMENSIONS	Main unit: 482 x 89 x 250 mm depth. 2 x 19" U rack Control unit: 482 x 89 x 85 mm depth. 2 x 19" U rack	Main unit: 482 x 89 x 250 mm depth. 2 x 19" U rack Control unit: 482 x 135.5 x 85 mm. 3 U 19" rack
WEIGHT	6.8 kg	7.4 kg
ACCESSORIES	2 audio cables with RCA connectors	2 audio cables with RCA connectors

AUXILIARY EQUIPMENT. AUDIO PROCESSORS

Mono and stereo graphic equalizers for altering and optimizing the audio signal.



FEQ-31



FEQ-1515



	FEQ-31	FEQ-1515
CHARACTERISTICS	31 band 1/3 octave, 20-20,000 Hz mono graphic equalizer	2 x 15 band 2/3 octave, 25-16,000 Hz stereo equalizer
CONTROLS	±6 dB or ±12 dB (selectable) sliders and bypass switch	±6 dB or ±12 dB (selectable) sliders and bypass switch GND lift earth disconnection
FILTERS	31 1/3 octave, 1 high- pass and 1 low-pass	2 x 15, 2/3 octaves, 1 high-pass and 1 low-pass per channel.
RESPONSE	20-50 000 Hz	20-50,000 Hz
THD DISTORTION	0.02% at 1000 Hz, centred controls	Harmonic. 0.02% at 1,000 Hz, centred controls
INPUTS	1 balanced/unbalanced line, XLR/6.3 mm jack 20 000 Ω and RCA 15 000 Ω	2 balanced/unbalanced lines, XLR/6.3 mm jack 20,000 Ω and RCA 15 000 Ω
OUTPUTS	1 balanced/unbalanced line, XLR/6.3 mm jack and RCA 600 Ω	2 balanced/unbalanced lines, XLR/6.3 mm jack and RCA 600 Ω
POWER SUPPLY	230/115 V AC, 7 W	230/115 V AC, 9 W
DIMENSIONS	482 x 44.5 x 200 mm depth. 1 x 19" U rack	482 x 44.5 x 200 mm depth. 1 x 19" U rack
WEIGHT	2.9 kg	3 kg

RELATED PRODUCTS



SR-1602
Digital acoustic feedback suppressor through adaptive notch filters
Page 84.



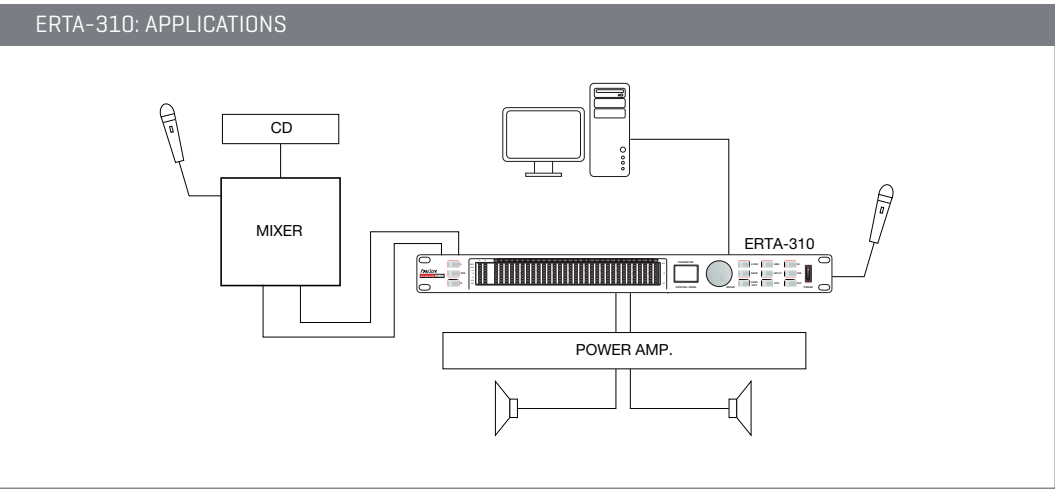
SR-1590
Acoustic feedback suppressor via frequency displacement
Page 84.

31-band stereo graphic equalizer with spectrum analyser in real time. Digital signal processor with many functions converting it into an indispensable tool for P.A. systems and live audio. The main functions are a graphic equalizer, real time spectrum analyser, crossover frequency divider, noise generator, low pass filter and high pass filter, delays, etc.



ERTA-310

CHARACTERISTICS	Digital signal processor. 31-band graphic equalizer. Real time spectrum analyser. Frequency divider (crossover). Low pass and high pass filters. Noise generator. Delays. USB port for connection to PC. Software for PC (W XP).
INPUTS	2 balanced lines, XLR and 6.3 mm jack 1 digital audio, AES/EBU, XLR 1 mic., XLR 1 RS-485, XLR
OUTPUTS	2 balanced lines, XLR and 6.3 mm jack 1 digital audio, AES/EBU, XLR 1 RS-485, XLR
POWER SUPPLY	90-264 V CA, 15 W
DIMENSIONS	483 x 44.5 x 210 mm depth. 1U 19" rack
WEIGHT	2.8 kg



AUXILIARY EQUIPMENT. AUDIO PROCESSORS

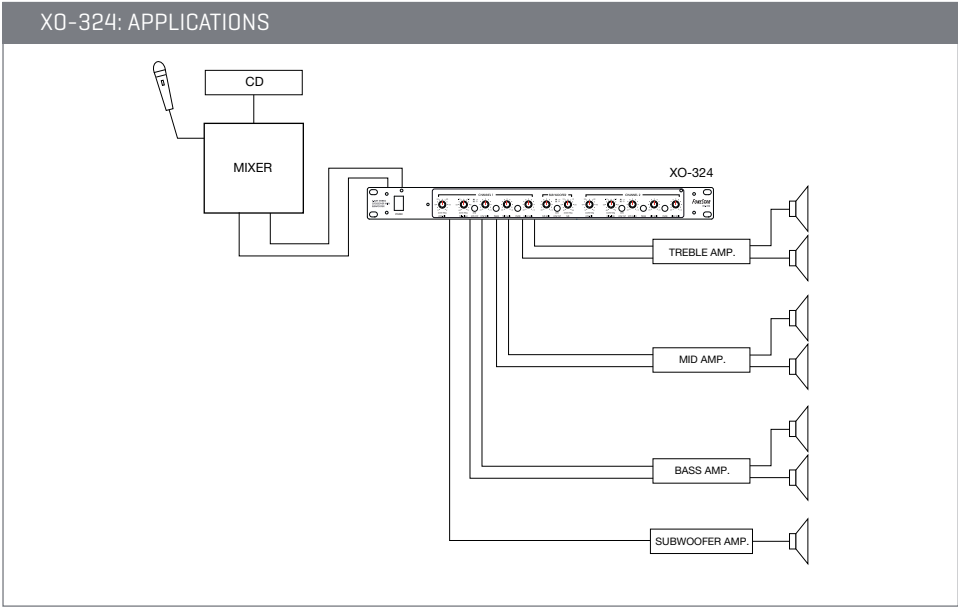
3-way stereo active crossover frequency divider with subwoofer. Audio signal control with individual adjustment of the gains level of the filter in each way (bass, mid, treble and subwoofer), as well as the frequency cutoff of the subwoofer filter and the mid-bass and mid treble filters. Independent subwoofer output.



XO-324

CHARACTERISTICS	3-way stereo active crossover frequency divider with subwoofer.
INPUTS	2 balanced lines (channel L and R), XLR female and 6.3 mm jack 100 000 Ω
CONTROLS	Gain level of the bass, mid, treble and subwoofer filters Frequency cut-off for the mid-bass, mid-treble and subwoofer filters Cut-off filter in the bass of each channel and subwoofer. Phase inversion in mid and treble channels
OUTPUTS	7 balanced lines (3 stereo and subwoofer ways), male XLR
FILTERS	Bass cut-off: high-pass filter, 30 Hz, -3dB, 12dB/oct. Subwoofer: low-pass filter, 50-250 Hz, -24/10 dB, 2nd order 24dB/oct. Bass: low-pass filter, 20-1000 Hz, -24/10 dB, 2nd order 24 dB/oct. Mid: band-pass filter, 70-7000Hz, -24/10 dB, 2nd order 24dB/oct. Trebles: high-pass filter, 480-20000 Hz, -24/10 dB, 2nd order 24 dB/oct.
FREQUENCIES	Cut off: Subwoofer: 50-250Hz Bass-mid: 70-1000Hz Mid-treble: 480-7000Hz
DISTORTION	Harmonic: < 0.05%
S/N RATIO	> 80 dB
POWER SUPPLY	230 V AC, 8W
DIMENSIONS	482 x 44.5 x 150 mm depth. 1 x 19" U rack
WEIGHT	2.2 kg

XO-324: APPLICATIONS



Speaker processors with 2 inputs and 6 outputs. Digital signal processors designed to process and adapt the audio signal to the characteristics of the P.A. system speakers. It processes the input signal offering an independent signal in each output. It incorporates equalizer, frequency divider, gain control, limiter, delay and mute functions.



PDA-206



PDA-207



PDA-206

PDA-207 **N!**

CHARACTERISTICS	Digital signal processor. Speaker processor with 2 inputs and 6 outputs. Parametric equalizers. Frequency dividers (crossover) Compressor/limiter. 70 editable settings. Power mode selection. Front panel lock. 24 bit sigma delta converters. 48 kHz sampling frequency. USB port for connection to PC. Software for PC (W7).	Digital signal processor. Loudspeaker processor 2 inputs and 6 outputs. Parametric equalizers. Frequency divider (crossover). Compressor/limiter. 70 editable configurations. On mode selection. Front panel lock. 24 bit sigma delta convertors. 48 kHz frequency sampling. Ethernet port for PC connection. Software for PC (W7).
INPUTS	2 balanced lines, combo (XLR and 6.3 mm jack), 1 MΩ/stereo 500 kΩ/mono 75 mV-7.75 V maximum 1 digital audio, AES/EBU, XLR 1 RS-485, XLR	2 balanced lines, combo (XLR and 6.3 mm jack) 1 MΩ/stereo 500 kΩ/mono 75 mV-7.75 V maximum 1 digital audio, AES/EBU, XLR
OUTPUTS	6 balanced lines, XLR, 500 Ω 7.75 V maximum 1 RS-485, XLR	6 balanced lines, XLR, 500 Ω 7.75 V maximum
PROCESSED INPUTS	Gain control 8-band parametric equalizer Delay Noise port	Gain control 8-band parametric equalizer Delay Noisegate
PROCESSED OUTPUTS	Gain control 5-band parametric equalizer High-pass and low-pass filter Delay Phase Compressor/limiter Mute	Gain control 5-band parametric equalizer Low-pass and high-pass filter Delay Phase Compressor/limiter Mute
RESPONSE	20-20 000 Hz $\pm$ 0.5 dB	20-20 000 Hz $\pm$ 0.5 dB
S/N RATIO	> 115 dBu	> 115 dBu
DISTORTION	Harmonic: < 0.01% at 1 kHz (-10 dBv)	Harmonic: < 0.01% at 1 kHz (-10 dBv)
POWER SUPPLY	90-264 V AC, 10 W	90-250 V AC, 10 W
DIMENSIONS	483 x 44.5 x 210 mm depth. 1U 19" rack	483 x 44.5 x 210 mm depth. 1U 19" rack
WEIGHT	2.8 kg	2.8 kg

AUXILIARY EQUIPMENT. AUDIO PROCESSORS

Audio splitter with 10 mono outputs and 5 stereo outputs. For splitting an audio signal in P. A. systems, press conference systems, etc.



FDT-112

CHARACTERISTICS	Audio splitter with 1 mono input to 10 mono outputs or 1 stereo input to 5 stereo outputs. LED input level indicators.
INPUTS	2 balanced lines, combo (XLR and 6.3 mm stereo jack) 15,000 Ω 775 mV
OUTPUTS	10 balanced lines, XLR 600 Ω 775 mV 2 balanced link output lines, XLR 600 Ω 775 mV
CONTROLS	Output volume Function mode selector: mono, stereo GND lift earth disconnection
RESPONSE	20 ñ 20,000 Hz
DISTORTION	Harmonic: < 0.05%
S/N RATIO	> 90 dB
POWER SUPPLY	230 V AC, 10 W maximum
DIMENSIONS	482 x 44.5 x 220 mm depth. 1 U x 19" rack
WEIGHT	2.6 kg

Audio splitter with 10 outputs on the front and independent volume control in each one. Specially for press rooms.



FDT-110F

CHARACTERISTICS	Audio splitter with 1 mono input to 10 mono outputs on the front. Independent volume control in each output. Specially for press rooms.
INPUTS	1 balanced line, XLR 225 mV maximum 1 balanced line, XLR maximum with 30 cm cable
OUTPUTS	10 balanced lines, XLR 1V maximum
CONTROLS	Volume per output LED power indicator
RESPONSE	20-20 000 Hz
DISTORTION	Harmonic: < 0.02 %
S/N RATIO	> 106 dB
POWER SUPPLY	230/115 V AC, 184 W
DIMENSIONS	483 x 88 x 85 mm depth. 2 U 19" rack
WEIGHT	3.1 kg

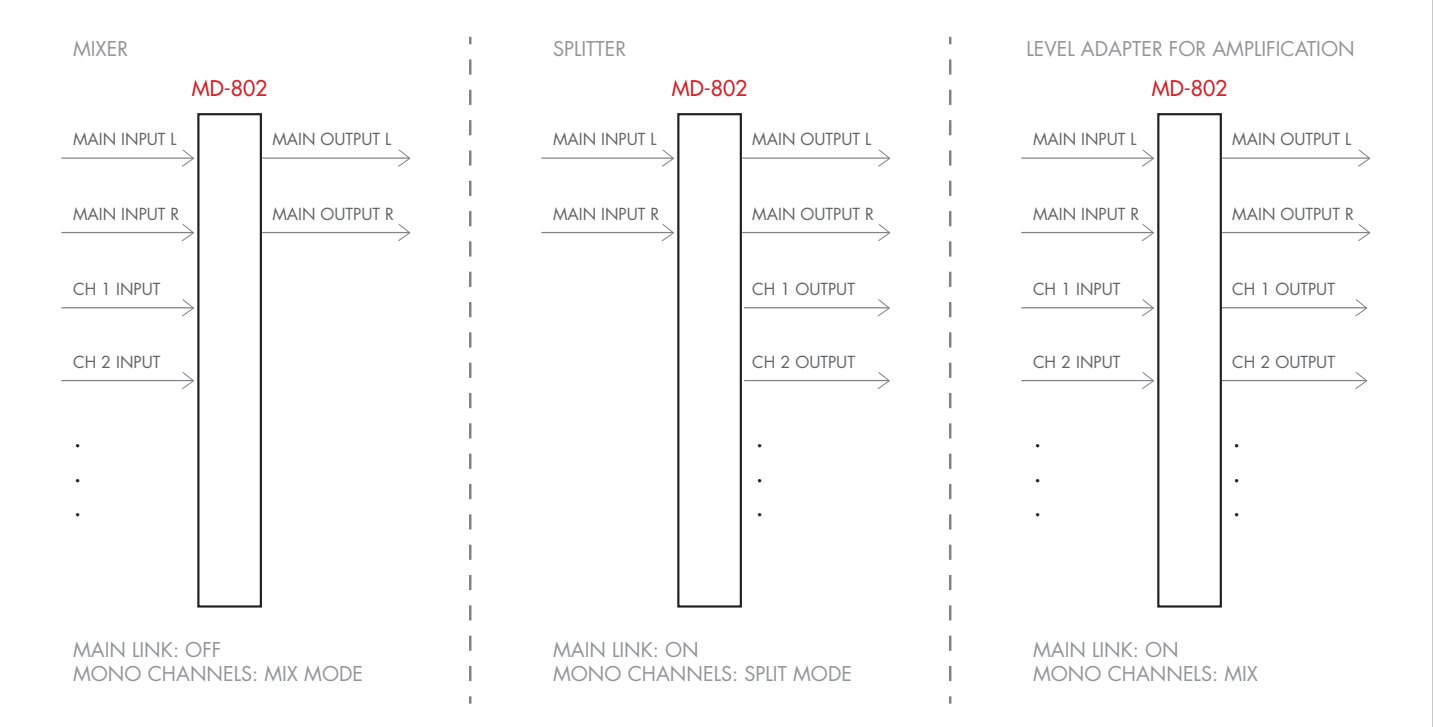
Audio mixer/splitter with 6 channels that can be set as inputs or outputs.
Versatile tool specially suitable for P.A and audio installations.



MD-802

CHARACTERISTICS	6-channel mixer/splitter.
INPUTS	4 balanced lines, XLR, 50,000 Ω 150 mV at 2 V 2 balanced lines, 6.3 mm jack, 50,000 Ω 150 mV at 2 V 1 main in, 2 x XLR, 50,000 Ω 150 mV at 2 V
OUTPUTS	4 balanced lines, XLR, 600 Ω 2 V 2 balanced lines, 6.3 mm jack, 600 Ω 2 V 1 main out, 2 x XLR, 600 Ω 2 V
CONTROLS	Operating mode selector per channel: splitter or mixer Selector for sending directly to main General volume and volume per channel Balance per channel
RESPONSE	20-20,000 Hz
DISTORTION	Harmonic: < 0.002 %
S/N RATIO	> 95 dB
POWER SUPPLY	230 V AC, 15 W maximum
DIMENSIONS	483 x 44.5 x 215 mm depth. 1 U 19" rack
WEIGHT	3 kg

MD-802: APPLICATIONS



CABINET SPEAKERS. COMPACT SERIES

Compact high power loudspeakers.

High quality audio and power in a compact sized loudspeaker with great features.



COMPACT-6

COMPACT-8

CHARACTERISTICS	Compact, high power loudspeaker with high density injection-moulded PP case. Metal front grille protection. Suspension points, feet, and monitor shaped.	Compact, high power loudspeaker with high density PP injection-moulded case. Metal front grille protection. Suspension points, carrying handle, legs for positioning on the floor and monitor-shaped. Hole in the base for a stand with a 35mm tube.
POWER	200 W maximum, 130 W RMS	250 W maximum, 200 W RMS
SPEAKERS	1 x 6 1/2" woofer 1 x 1" compression motor	1 x 8" woofer 1 x 1" compression motor
RESPONSE	100-18 000 Hz	60-18 000 Hz
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	90 dB at 1 W/1 m	92 dB at 1 W/1 m
SOUND PRESSURE	100 dB at maximum power at 1 m	108 dB at maximum power at 1 m
DISPERSION	130° H x 50° V	130° H x 105° V
CONNECTORS	2 x 4-contact speaker connectors (1+, 1-) Spring terminals	2 x 4-contact speaker connectors (1+, 1-)
CROSSOVER	2 ways Crossover frequency 3000 Hz 12 dB/oct filter slope	2 ways Crossover frequency 3300 Hz 12 dB/oct filter slope
SUSPENSION POINTS	3 x M6 points	2 x M8 points
DIMENSIONS	209 x 315 x 193 mm depth	267 x 428 x 273 mm depth
WEIGHT	4.9 kg	8.9 kg
ACCESSORIES	Adjustable fixing mount	-

CABINET SPEAKERS. PLASTIC CASING

FONESTAR

Loudspeakers with extra-resistant PS injection-moulded case.



SB-3410



SB-3421



SB-3432



CHARACTERISTICS		Loudspeaker with extra-resistant PS injection-moulded case. Woofer protected with front metal grille. Carrying handles, suspension points, feet and hole in the base for a 35 mm tube.	
POWER	300 W maximum, 150 W RMS	400 W maximum, 200 W RMS	500 W maximum, 250 W RMS
SPEAKERS	1 x 10" bass woofer 1 tweeter with horn diffuser	1 x 12" bass woofer 1 tweeter with horn	1 x 15" woofer 1 tweeter with horn diffuser
RESPONSE	48-18000 Hz	40-18 000 Hz	30-18 000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	92 dB 1 W/1 m	93 dB 1 W/1 m	94 dB 1 W/1 m
CONNECTORS	2 speaker connectors and screw terminals or gold-plated banana plugs	2 speaker connectors and screw terminals or gold-plated banana plugs	2 speaker connectors and screw terminals or gold-plated banana plugs
SUSPENSION POINTS	2 M8 points	4 M8 points	4 M8 points
DIMENSIONS	350 x 520 x 310 mm depth	410 x 620 x 330 mm depth	500 x 700 x 360 mm depth
WEIGHT	9.5 kg	12.1 kg	16 kg

Loudspeakers with injection-moulded, extra-resistant ABS case.



SB-3510



SB-3520



SB-3530

CHARACTERISTICS		Loudspeaker with injection-moulded, extra-resistant ABS case. Woofer protected with front metal grille. Transport handles, suspension points, feet and a hole in the base for a 35 mm tube.	
POWER	200 W maximum, 100 W RMS	400 W maximum, 200 W RMS	400 W maximum, 200 W RMS
SPEAKERS	1 x 8" woofer 1 compression motor : 1 3/8" diaphragm, 1" throat	1 x 12" woofer 1 compression motor: 1 3/8" diaphragm, 1" throat	1 x 15" woofer 1 compression motor: 1 3/8 " diaphragm, 1" throat
RESPONSE	70-20 000 Hz	60-20 000 Hz	50-20 000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	90 dB at 1 W/1 m	95 dB at 1 W/1 m	97 dB at 1 W/1 m
CONNECTORS	2 x 4-contact speaker type (1+, 1-)	2 x 4-contact speaker type (1+, 1-)	2 x 4-contact speaker connector (1+, 1-)
CROSSOVER	2 ways Crossover frequency at 3200 Hz PTC protection in trebles	2 ways Crossover frequency at 3000 Hz PTC protection in trebles	2 ways Crossover frequency at 3300 Hz PTC protection in trebles
SUSPENSION POINTS	-	4 x M8 points	4 x M8 points
SOUND PRESSURE	134 dB at maximum power at 1 m	124 dB at maximum power at 1 m	126 dB at maximum power at 1 m
DIMENSIONS	268 x 400 x 250 mm depth	425 x 615 x 350 mm depth	480 x 685 x 390 mm depth
WEIGHT	6.5 kg	15.4 kg	18.7 kg

CABINET SPEAKERS. PLASTIC CASING

Loudspeakers with extra-resistant PP injection-moulded case.



SB-3612 **NI**

SB-3615 **NI**

CHARACTERISTICS	Loudspeaker with extra-resistant PP injection-moulded case. Woofer protected by front metal grille. Carrying handles, suspension points, feet and monitor-shaped. Hole in the base for 35 mm tube.	Loudspeaker with extra-resistant PP injection-moulded case. Woofer protected by front metal grille. Carrying handles, suspension points, feet and monitor-shaped. Hole in the base for 35 mm tube.
POWER	300 W maximum, 150 W RMS	360 W maximum, 180 W RMS
SPEAKERS	1 x 12" woofer: 50 mm coil and ferrite magnet 1 compression motor: 1 3/8" diaphragm	1 x 15" woofer: 63.5 mm coil and ferrite magnet 1 compression motor: 1 3/8" diaphragm
RESPONSE	55-18 000 Hz	42-18 000 Hz
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	97 dB at 1 W/1 m	98 dB at 1 W/1 m
CONNECTORS	2 x 4-contact loudspeaker connectors (1+, 1-)	2 x 4-contact speaker connectors (1+, 1-)
INDICATORS	Power on the front	Power on the front
CROSSOVER	2 ways Crossover frequency at 2500 Hz	2 ways Crossover frequency at 2500 Hz
SUSPENSION POINTS	6 x M8 points	6 x M8 points
SOUND PRESSURE	128 dB at maximum power at 1 m	129 dB at maximum power at 1 m
DIMENSIONS	375 x 585 x 330 mm depth	460 x 685 x 380 mm depth
WEIGHT	13.7 kg	17.3 KG

CABINET SPEAKERS. WOODEN CASING

FONESTAR

Loudspeakers designed for maximum efficiency in audio playback. Perfect for PA where high level audio and maximum performance is needed.



SB-3104

CHARACTERISTICS	Loudspeaker protected with front metal grille. Manufactured in chipboard with granulated paint finish. Hole in the base for a stand with 35 mm tube. Carrying handles and feet.
POWER	200 W maximum, 100 W RMS
SPEAKERS	1 x 8" bass woofer 1 mid/treble piezo horn
RESPONSE	50-20 000 Hz
IMPEDANCE	8 Ω
SOUND PRESSURE	112 dB at maximum power at 1 m
CONNECTORS	Speaker connector and Spring terminals
CROSSOVER	-
DIMENSIONS	290 x 445 x 271 mm depth
WEIGHT	7.3 kg

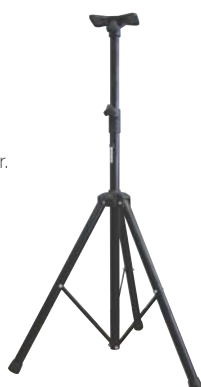
SB-3363

CHARACTERISTICS	Speaker protected with front metal grille. Manufactured in chipboard with granulated paint finish. Carrying handles and feet.
POWER	700 W maximum, 350 W RMS
SPEAKERS	1 x 15" woofer 1 x 8" mid 1 double treble piezo horn
RESPONSE	32-20 000 Hz
IMPEDANCE	8 Ω
SOUND PRESSURE	124 dB at maximum power at 1 m
CONNECTORS	Speaker connector and spring terminals
CROSSOVER	3 ways
DIMENSIONS	478 x 810 x 405 mm depth
WEIGHT	28.8 kg

RELATED PRODUCTS

RS-503

Speaker stand for loudspeaker.
Page 201.



RS-510

Speaker stand for loudspeaker. 35 mm upper tube with 38 mm adapter tube.
Page 201.



CABINET SPEAKERS. PRO SERIES

High power loudspeakers and subwoofer, PRO series. Wide range of loudspeakers manufactured in reinforced MDF. High quality granulated paint finish. High quality components. Powerful with wide audio response.



PRO-8

PRO-10

PRO-12

CHARACTERISTICS	Loudspeaker manufactured in reinforced MDF. Granulated paint finish. Protective front metal grille. Suspension points. Hole in base for 35 mm tube.	Loudspeaker manufactured in reinforced MDF. Granulated paint finish. Protective metal front grille. Suspension points. Hole in base for 35 mm tube. Feet.	Loudspeaker manufactured in reinforced MDF. Granulated paint finish. Protective metal front grille. Carrying handles and suspension points. Hole in base for 35 mm tube. Feet.
POWER	300 W maximum, 150 W RMS	400 W maximum, 200 W RMS	600 W maximum, 300 W RMS
SPEAKERS	1 x 8" woofer: 50 mm coil and 140 mm ferrite magnet 1 compression motor: 1" titanium diaphragm, 1" mouth and 25.4 mm coil	1 x 10" woofer: 50 mm coil and 140 mm ferrite magnet 1 compression motor: 1" titanium diaphragm, 1" mouth and 25.4 mm coil	1 x 12" woofer: 60 mm coil and 170 mm ferrite magnet 1 compression motor: 1 2/5" titanium diaphragm, 1" mouth and 34 mm coil
RESPONSE	65-18 000 Hz (± 3 dB)	65-18 000 Hz (± 3 dB)	60-18 000 Hz (± 3 dB)
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	96 dB at 1 W/1 m	97 dB at 1 W/1 m	99 dB at 1 W/1 m
SOUND PRESSURE	117 dB at maximum power at 1 m	120 dB at maximum power at 1 m	123 dB at maximum power at 1 m
DISPERSION	100° H x 90° V (-6 dB)	100° H x 90° V (-6 dB)	100° H x 90° V (-6 dB)
CONNECTORS	2 x 4-contact speaker connectors (1+, 1-)	2 x 4-contact speaker connectors (1+, 1-)	2 x 4-contact speaker connectors (1+, 1-)
CROSSOVER	2 ways	2 ways	2 ways
SUSPENSION POINTS	12 x M8 points	12 x M8 points	12 x M10 points
COLOUR	Black	Black	Black
DIMENSIONS	270 (220) x 440 x 300 mm depth	300 (250) x 510 x 320 mm depth	370 (310) x 715 x 400 mm depth
WEIGHT	11.2 kg	13 kg	21 kg



PRO-15, PRO-30

PRO-15

PRO-30

PRO-SUB181 **N!**

CHARACTERISTICS	Loudspeaker manufactured in reinforced MDF. Granulated paint finish. Protective front metal grille. Carrying handles and suspension points. Hole in the base for 35 mm tube. Feet.	Loudspeaker manufactured in reinforced MDF. Granulated paint finish. Protective metal front grille. Carrying handles and suspension points. Feet.	Subwoofer in reinforced plywood. Granulated paint finish. Protective metal front grille. Carrying handles. Top hole for 35 mm tube. Feet.
POWER	700 W maximum, 350 W RMS	1500 W maximum, 750 W RMS	1000 W maximum, 500 W RMS
SPEAKERS	1 x 15" woofer: 60 mm coil and 170 mm ferrite magnet 1 compression motor: 1 2/5" titanium diaphragm, 1" mouth and 34 mm coil	2 x 15" woofer: 60 mm coil and 170 mm ferrite magnet 1 compression motor: 1 3/4" titanium diaphragm, 1" mouth and 44 mm coil	1 x 18" woofer: 76 mm coil and ferrite magnet
RESPONSE	55-18 000 Hz (±3 dB)	50-20 000 Hz (±3 dB)	40-2000 Hz (±3 dB)
IMPEDANCE	8 Ω	4 Ω	8 Ω
SENSITIVITY	100 dB at 1 W/1 m	104 dB at 1 W/1 m	97 dB at 1 W/1 m
SOUND PRESSURE	125 dB at maximum power at 1 m	132 dB at maximum power at 1 m	128 dB at maximum power at 1 m
DISPERSION	100° H x 90° V (-6 dB)	100° H x 90° V (-6 dB)	-
CONNECTORS	2 x 4-contact speaker connectors (1+, 1-)	2 x 4-contact speaker connectors (1+, 1-)	2 x 4-contact (1+, 1-) speaker connectors
CROSSOVER	2 ways	2 ways	-
SUSPENSION POINTS	12 x M10 points	12 x M10 points	-
COLOUR	Negro	Black	Black
DIMENSIONS	410 (335) x 810 x 500 mm depth	410 (335) x 1140 x 500 mm depth	660 x 555 x 515 mm depth
WEIGHT	26 kg	40 kg	28.5 kg
	-	-	RS-560: mount for positioning a loudspeaker over the subwoofer

CABINET SPEAKERS. PRO SERIES

High power loudspeaker.

PRO-102

CHARACTERISTICS	Loudspeaker manufactured in reinforced wood. Granulated paint finish. Protective metal front grille. Carrying handles and suspension points. Hole in the base for a 35 mm tube.
POWER	600 W maximum, 300 W RMS
SPEAKERS	2 x 10" woofer: 50 mm coil and Neodymium magnet 1 compression motor: 1" diaphragm, 25.4 mm coil and Neodymium magnet
RESPONSE	60-20 000 Hz ± 6 dB
IMPEDANCE	4 Ω
SENSITIVITY	98 dB ± 3 dB at 1 W/1 m
SOUND PRESSURE	122 dB at maximum power at 1 m
DISPERSION	Diffuser 50° H x 50° V
CONNECTORS	2 x 4-contact speaker connectors (1+, 1-)
CROSSOVER	Passive, 2 ways Crossover frequency 3200 Hz
PROTECTION	Tweeter protection bulb
SUSPENSION POINTS	14 x M8 points
COLOUR	Black
DIMENSIONS	329 x 818 x 320 mm depth
WEIGHT	21 kg



CABINET SPEAKERS. ACCESSORIES

Accessories for the installation of loudspeakers with suspension points. Suitable for the PRO series and similar.



CCM-8

CHARACTERISTICS	Galvanized eyebolt
BREAKING LOAD	85 kg
DIMENSIONS	M8 x 24 mm

CCM-10

CHARACTERISTICS	Galvanized eyebolt
BREAKING LOAD	150 kg
DIMENSIONS	M10 x 24 mm

MSQ-70

CHARACTERISTICS	Galvanized carabiner with safety catch.
BREAKING LOAD	120 kg
DIMENSIONS	7 x 70 mm

MSQ-80

CHARACTERISTICS	Galvanized carabiner with safety catch.
BREAKING LOAD	150 kg
DIMENSIONS	8 x 80 mm



ECA-3

CHARACTERISTICS	Stainless steel cable strop with thimbles.
PAYLOAD	85 kg
BREAKING LOAD	433 kg
DIMENSIONS	3 x 600 mm Other dimensions (minimum order 10 units): Please ENQUIRE

ECA-4

CHARACTERISTICS	Stainless steel cable strop with thimbles.
PAYLOAD	150 kg
BREAKING LOAD	765 kg
DIMENSIONS	4 x 600 mm Other dimensions (minimum order 10 units): Please ENQUIRE

CABINET SPEAKERS. LINE ARRAY

FONESTAR

Compact LINE ARRAY system, 1000 W maximum, 500 W RMS. Manufactured in reinforced wood and finished in highly resistant granulated paint. Low impedance passive system for fixed or mobile installations. High quality audio and components.



ARRAY-530

CHARACTERISTICS	Compact LINE ARRAY system. Subwoofer and 4 mid-treble loudspeakers with adjustable tilt from 0 to 10° in steps of 2°. Manufactured in reinforced wood and finished in highly resistant granulated paint. Suspension system and accessories. For fixed or mobile installations. High quality audio and components. Easily transported and installed.
POWER	1000 W maximum, 500 W RMS Subwoofer: 500 W maximum, 250 W RMS Loudspeakers: 140 W maximum, 70 W RMS
SPEAKERS	Subwoofer: 2 x 8" woofer: 50 mm coil and 140 mm ferrite magnet Loudspeakers: 2 x 5" mids: 25 mm coil and 80 mm ferrite magnet and 1 x 3" tweeter
RESPONSE	Subwoofer: 40-200 Hz ± 5 dB Loudspeakers: 50-20 000 Hz ± 3 dB
IMPEDANCE	Subwoofer: 4 Ω Loudspeakers: 16 Ω
SENSITIVITY	Subwoofer: 90 dB at 1 W/1 m Loudspeakers: 86 dB at 1 W/1 m
DISPERSION	Loudspeakers: 90° H x 25° to 90° V (depending on the tilt angle)
CONNECTORS	Subwoofer: 2 x 4-contact speaker connector (1+, 1-) for filtered signal Loudspeakers: 2 x 4-contact speaker connector (1+, 1-) in each speaker, the interconnection of all 4 speakers equals 4 Ω
SUSPENSION POINTS	Upper mount with 4 eyebolts
CROSSOVER	Loudspeakers: Passive, 2 ways, cutoff frequency 4000 Hz
DIMENSIONS	Subwoofer: 480 x 280 x 480 mm depth Loudspeakers: 480 x 185 x 230 mm depth
WEIGHT	Subwoofer: 21.5 kg Loudspeakers: 9.2 kg (4 u. x 9.2 kg = 36.8 kg)
ACCESSORIES	Rigging system with upper mount, front and back links, and quick use safety pins included. 3 cables for interconnecting the loudspeakers, 2 x speaker connectors

AUTOAMPLIFIED CABINET SPEAKERS. PLASTIC CASING

Bi-amplified loudspeakers with injection-moulded, extra-resistant ABS case.



170 W max.
105 W RMS

ASB-8105

600 W max.
300 W RMS

ASB-12300

600 W max.
300 W RMS

ASB-15300

CHARACTERISTICS	Bi-amplified loudspeaker with injection-moulded, extra-resistant ABS case. Woofer protected by a metal grille on the front. Feet and monitor shaped. Hole in the base for a 35 mm tube.	Bi-amplified loudspeaker with injection-moulded, extra-resistant ABS case. Woofer protected by a metal grille on the front. Carrying handles, feet and monitor shaped. Hole in the base for a 35 mm tube. Suspension points.	Bi-amplified loudspeaker with injection-moulded, extra-resistant ABS case. Woofer protected by a metal grille on the front. Carrying handles, feet and monitor shaped. Hole in the base for a 35 mm tube. Suspension points.
AMPLIFIER	170 W maximum, 105 W RMS Bass: 120 W maximum, 70 W RMS Treble: 50 W maximum, 35 W RMS	600 W maximum, 300 W RMS Bass: 500 W maximum, 250 W RMS Treble: 100 W maximum, 50 W RMS	600 W maximum, 300 W RMS Bass: 500 W maximum, 250 W RMS Treble: 100 W maximum, 50 W RMS
PROTECTION	Limiter, short-circuit and temperature	Limiter, short-circuit and temperature	Limiter, short-circuit and temperature
SPEAKERS	1 x 8" woofer: 38 mm coil with ventilation 1 compression motor: 1" throat, 25.4 mm coil and Neodymium magnet	1 x 12" woofer: 50 mm coil with ventilation 1 compression motor: 1" throat, 35.5 mm coil and ferrite magnet	1 x 15" woofer: 50 mm coil with ventilation 1 compression motor: 1" throat, 35.5 mm coil and ferrite magnet
RESPONSE	70-20 000 Hz	60-20 000 Hz	50-20 000 Hz
INPUTS	1 balanced line, combo (XLR and 6.3 mm stereo jack) 15 000 Ω , 775 mV	1 balanced line, combo (XLR and 6.3 mm stereo jack) 15 000 Ω , 775 mV	1 balanced line, combo (XLR and 6.3 mm stereo jack) 15 000 Ω , 775 mV
OUTPUTS	1 balanced auxiliary line, XLR	1 balanced auxiliary line, XLR	1 balanced auxiliary line, XLR
INDICATORS	On and limiter	On and limiter	On and limiter
CONTROLS	Volume Earth disconnection: GND lift	Volume Earth disconnection: GND lift	Volume Earth disconnection: GND lift
POWER SUPPLY	230/115 V AC, 200 W	230/115 V AC, 400 W	230/115 V AC, 400 W
DIMENSIONS	268 x 420 x 260 mm depth	425 x 630 x 350 mm depth	480 x 700 x 380 mm depth
WEIGHT	7.7 kg	19.2 kg	22 kg

Bi-amplified loudspeakers with injection-moulded plastic case. USB/SD/MP3 player with remote control. Mic. and line inputs and output for passive screen.



ASB-12150U

N!

300 W max.
150 W RMS

ASB-15180U

N!

360 W max.
180 W RMS

CHARACTERISTICS	Bi-amplified loudspeaker with extra-resistant PP injection-moulded case. USB/SD/MP3 player with remote control. Output for passive screen. Woofer protected by front metal grille. Transport handles, suspension points, feet and monitor shaped. Hole in the base for 35 mm tube.	Bi-amplified loudspeaker with injection-moulded, extra-resistant PP case. USB/SD/MP3 player with remote control. Output for passive screen. Woofer protected by a metal grille on the front. Carrying handles, suspension points, feet and monitor shaped. Hole in the base for 35 mm tube.
AMPLIFIER	300 W maximum, 150 W RMS Bass: 240 W maximum, 120 W RMS Treble: 60 W maximum, 30 W RMS	360 W maximum, 180 W RMS Bass: 300 W maximum, 150 W RMS Treble: 60 W maximum, 30 W RMS
PROTECTION	3 protection circuits: shortcircuit, surge and temperature	3 protection circuits: shortcircuit, surge and temperature
LOUDSPEAKERS	1 x 12" woofer : 50 mm coil and ferrite magnet 1 compression motor: 1 3/8" diaphragm	1 x 15" woofer: 63.5 mm coil and ferrite magnet 1 compression motor: 1 3/8" diaphragm
RESPONSE	50-18 000 Hz	42-18 000 Hz
INPUTS	1 balanced mic., XLR 1 balanced mic., combo (XLR and 6.3 mm jack) 1 auxiliary line, 2 x RCA	1 balanced mic., XLR 1 balanced mic., combo (XLR and 6.3 mm jack) 1 auxiliary line, 2 x RCA
OUTPUTS	1 auxiliary line, 2 x RCA 1 amplified for passive screen, 8 Ω speaker connector	1 auxiliary line, 2 x RCA 1 amplified for passive screen, 8 Ω speaker connector
INDICATORS	Power on the front and on/off and peak on the back panel	Power on the front and on/off and peak on the back panel
CONTROLS	Input volume and general volume Line/MP3 input selector USB/SD/MP3 player control Effects: delay and echo 5-band graphic equalizer	Volume in the inputs and general volume Input selector: line/MP3 USB/SD/MP3 player control Effects: delay and echo 5-band graphic equalizer
SUSPENSION POINTS	6 x M8 points	6 x M8 points
POWER SUPPLY	230 V AC, 300 W	230/115 V AC, 500 W
DIMENSIONS	375 x 585 x 330 mm depth	460 x 685 x 380 mm depth
WEIGHT	16 kg	20 kg

AUTOAMPLIFIED CABINET SPEAKERS. PRO SERIES

Biampified high power loudspeakers, PRO series, wooden box. High quality audio.



500 W max.
250 W RMS

PRO-102A

CHARACTERISTICS	Biampified loudspeaker manufactured in reinforced wood. Granulated paint finish. Protective metal front grille. Carrying handles and suspension points. Hole in the base for a 35mm tube.
AMPLIFIER	500 W maximum, 250 W RMS Bass: 350 W maximum, 175 W RMS Treble: 150 W maximum, 75 W RMS
PROTECTION	Tweeter, temperature, compressor/limiter and soft start up
SPEAKERS	2 x 10" woofer: 50 mm coil and Neodymium magnet 1 compression motor: 1" diaphragm, 25.4 mm coil and Neodymium magnet
RESPONSE	60-20 000 Hz ±6 dB
INPUTS	1 balanced line, combo (XLR and 6.3 mm jack) 30 000 Ω 775 mV
OUTPUTS	1 balanced line, XLR
INDICATORS	Power on the front Clip on the back panel
CROSSOVER	Active, 2 ways Crossover frequency 2700 Hz
DISPERSION	Diffuser: 50° H x 50° V
CONTROLS	Volume Earth disconnection: GND lift
SUSPENSION POINTS	14 x M8 points
COLOUR	Black
POWER SUPPLY	230/115 V AC, 300 W
DIMENSIONS	329 x 818 x 320 mm depth
WEIGHT	27 kg

Autoamplified subwoofer, PRO series. Manufactured in reinforced plywood with granulated paint finish. High power and depth bass, bass reflex reinforcement system.

Mono or stereo input signal can be connected. Filtered stereo output signal for active satellite loudspeakers.

Compressor, limiter, phase inverter and earth disconnection functions for maximum integration in audio system.



600 W max.
300 W RMS

PRO-SUB12A



600 W max.
300 W RMS

PRO-SUB15A

CHARACTERISTICS	Autoamplified subwoofer in reinforced plywood. Granulated paint finish. Stereo/mono input and filtered stereo output for active satellite loudspeakers. Steel front grille. Carrying handles. Top hole for 35 mm tube. Feet.	Autoamplified subwoofer in reinforced plywood. Granulated paint finish. Stereo/mono input and filtered stereo output for active satellite cabinet speakers. Steel front grille. Carrying handles. Top hole for 35 mm tube. Feet.
AMPLIFIER	600 W maximum, 300 W RMS	600 W maximum, 300 W RMS
PROTECTION	Compressor/limiter Forced ventilation	Compressor/limiter Forced ventilation
SPEAKERS	1 x 12" woofer: 63.5 mm coil with ventilation	1 x 15" woofer. 63.5 mm coil with ventilation
RESPONSE	47-125 Hz	45-125 Hz
SENSITIVITY	96 dB at 1 W/1 m	97 dB at 1 W/1 m
SOUND PRESSURE	123 dB at maximum power at 1m	124 dB at maximum power at 1 m
INPUTS	1 balanced mono/stereo line, combo (XLR and 6.3 mm jack) and 15 000 Ω 775 mV XLR	1 balanced mono/stereo line, combo (XLR and 6.3 mm jack) and 15 000 Ω 775 mV XLR
OUTPUTS	1 balanced stereo line, direct output, 2 x 600 Ω XLR 1 balanced stereo line, 125 Hz filtered signal for active satellites, 2 x XLR, 600 Ω	1 balanced stereo line, direct output, 2 x 600 Ω XLR 1 unbalanced stereo line, 80 Hz filtered signal for active satellites, 2 x 600 Ω XLR
INDICATORS	In operation on the front, power and signal/compression on the back panel	In operation on the front, power and signal/compression on the back panel
CROSSOVER	Active, 125 Hz crossover frequency, 24 dB/oct 80 Hz high-pass filter, selectable	Subwoofer: active, 125 Hz crossover frequency, 24 dB/oct 80 Hz high-pass filter, selectable
CONTROLS	Volume, phase inversion, bypass or high-pass filter and GND lift earth disconnection	Volume, phase inversion, bypass or high-pass filter and GND lift earth disconnection
COLOUR	Black	Black
POWER SUPPLY	230/115 V AC, 350 W	230/115 V AC, 350 W
DIMENSIONS	530 x 480 x 370 mm depth	575 x 460 x 485 mm depth
WEIGHT	18.6 kg	22.4 kg
OPTIONAL	RS-560: Mount for placing a loudspeaker over the subwoofer	RS-560: Mount for placing a loudspeaker over the subwoofer

AUTOAMPLIFIED CABINET SPEAKERS. RECHARGEABLE BATTERY

Powered loudspeaker, 20 W RMS, with rechargeable internal battery and recharge function. The rechargeable battery allows it to work for more than 4 hours at maximum volume. Mic., mic/line input and auxiliary line output for connecting it to another powered loudspeaker or amplifier. Hole in the base for a 35 mm tube.



ASB-40

AC: 20 W RMS
DC: 9 W RMS



CHARACTERISTICS	Powered loudspeaker 20 W RMS. Internal rechargeable battery. Recharge function. Manufactured in reinforced MDF wood with protective metal grille on the front, granulated paint finish. Transport handle. Hole in the base for a 35 mm tube.
POWER	AC: 20 W RMS Battery: 9 W RMS
SPEAKERS	1 x 6 1/2" woofer 1 x 1" tweeter
RESPONSE	20-20 000 Hz
INPUTS	1 balanced mic., 6.3 mm jack, 10 mV 1 balanced auxiliary mic./line, XLR 10 mV and 1 V, switchable
OUTPUTS	1 balanced auxiliary line, XLR 1V
POWER SUPPLY	230 V AC, 45 W and internal, rechargeable battery (included) Rechargeable battery life: over 4 hours at maximum volume Battery charge time: approximately 10 hours
COLOUR	Black
DIMENSIONS	270 x 330 x 220 mm depth
WEIGHT	7.8 kg

AUTOAMPLIFIED CABINET SPEAKERS. WIRELESS

FONESTAR

Wireless powered loudspeaker and audio transmitter in 2.4 GHz.



ASI-40

AC: 20 W RMS
DC: 9 W RMS



2.4 GHz

CHARACTERISTICS	Wireless powered loudspeaker, 20 W RMS. 2.4 GHz stereo audio receiver. Internal rechargeable battery. Recharge function. Manufactured in reinforced MDF wood and metal protective front grille, granulated paint finish. Transport handle. Hole in the base for a 35 mm tube.
POWER	AC: 20 W RMS Battery: 9 W RMS
SPEAKERS	1 x 6 1/2" woofer 1 x 1" tweeter
RESPONSE	20-20 000 Hz
INPUTS	1 balanced mic./line, XLR 10 mV and 1 V
POWER SUPPLY	230 V AC, 45 W and internal rechargeable battery (included) Rechargeable battery life: over 4 hours at maximum volume Battery charging time: approximately 10 hours
COLOUR	Black
DIMENSIONS	270 x 330 x 220 mm depth
WEIGHT	7.8 kg
OPTIONAL	FI-40: stereo audio transmitter, 2.4 GHz



FI-40

2.4 GHz

CHARACTERISTICS	2.4 GHz stereo audio transmitter. 15 m transmission distance, obstacle free. 8 selectable channels.
POWER	10 mW
RESPONSE	20-20 000 Hz
INPUTS	1 stereo audio, 1.5 V USB D
CHANNELS	8 selectable channels
MODULATION	FSK
POWER SUPPLY	230 V AC/9 V DC, 300 mA with adapter included
COLOUR	Black
DIMENSIONS	118 x 34 x 123 mm depth
WEIGHT	0.5 kg
ACCESSORIES	1 cable, 2 x RCA to USB D for audio input 1 cable, 2 x RCA to 2 x 6.3 mm mono plug
OPTIONAL	ASI-40: Powered loudspeaker with 2.4 GHz receiver

AUTOAMPLIFIED CABINET SPEAKERS. LINE ARRAY

Compact biamplified LINE ARRAY system, 300 W RMS. Manufactured in reinforced plywood with highly resistant granulated paint finish. Active system for fixed or mobile installations. High quality audio and components.



ARRAY-300A

CHARACTERISTICS	Compact biamplified line array system. Biamplified subwoofer with output for the mid-treble screens with adjustable tilt from 0 to 10° in steps of 2°. Manufactured in reinforced plywood with highly resistant granulated paint finish. Suspension system and accessories. For fixed or mobile installations. High quality audio and components. Easy to transport and install.
POWER	Amplifier: 525 W RMS at 4 Ω Subwoofer: 245 W RMS at 4 Ω Loudspeakers: 280 W RMS at 4 Ω
SPEAKERS	Subwoofer: 250 W RMS, 1 x 12" woofer: 65 mm coil and 156 mm ferrite magnet Loudspeakers: 70 W RMS, 2 x 5 1/4 mids: 25 mm coil and 80 mm ferrite magnet and 1 compression motor: 1" throat, 25 mm coil and Neodymium magnet
RESPONSE	Subwoofer: 40-200 Hz ±5 dB Loudspeakers: 50-20 000 Hz ±3 dB
IMPEDANCE	Subwoofer: 4 Ω Loudspeakers: 16 Ω
SENSITIVITY	Subwoofer: 99 dB at 1 W/1 m Loudspeakers: 93 dB at 1 W/1 m
DISPERSION	Loudspeakers: 90° H x 25° to 90° V (depending on the tilt angle)
CONNECTORS	Subwoofer: line level input and output, XLR. Speaker output 1 x 4-contact speaker connector (1+, 1-) for filtered signal Loudspeakers: 2 x 4-contact speaker connectors (1+, 1-)
SUSPENSION POINTS	Upper mount
CROSSOVER	Amplifier: Low-pass filter up to 150 Hz selectable for subwoofer and high-pass filter for loudspeakers. Loudspeakers: passive, 2-way, cut off frequency 2800 Hz
POWER SUPPLY	115/230 V AC, 4000 W
DIMENSIONS	Subwoofer: 440 x 399 x 500 mm depth Loudspeakers: 440 x 195 x 275 mm depth
WEIGHT	Subwoofer: 24.5 kg Loudspeakers: 10.4 kg (4 u. x 10.4 kg = 41.6 kg)

2.1 AUTOAMPLIFIED SYSTEMS. NOMAD SERIES

FONESTAR

2.1 autoamplified systems, NOMAD series, composed of amplified subwoofer and 2 loudspeakers.

Including 4-channel mixer with digital effects processor, 2 mic. inputs and 2 stereo lines. Audio quality and easy to transport for all types of events, parties, etc.



NOMAD-300

NOMAD-500

NOMAD-800

CHARACTERISTICS

2.1. autoamplified system.

- Amplified subwoofer with mixer and loudspeaker output for loudspeakers (L and R).
- 2 trapezoid-shaped loudspeakers, connectors and hole in the base for a 16 mm tube (NOMAD-300) and 35 mm (NOMAD-500 and NOMAD-800).
- 4 channel mixer and digital effects processor.
- 2 mic. inputs and 2 stereo line inputs.
- Independent volume control and subwoofer and master (L and R) compressor/limiter.
- Manufactured in reinforced wood with granulated paint finish.
- Protective metal grille covered in foam.
- Carrying handles and wheels on subwoofer.

AMPLIFIER	220 W maximum, 150 W RMS Subwoofer: 100 W maximum, 70 W RMS L and R: 60 + 60 W maximum, 40 + 40 W RMS	400 W maximum, 280 W RMS Subwoofer: 160 W maximum, 110 W RMS L and R: 120 + 120 W maximum, 85 + 85 W RMS	670 W maximum, 470 W RMS Subwoofer: 270 W maximum, 190 W RMS L and R: 200 + 200 W maximum, 140 + 140 W RMS
PROTECTION	Compressor/limiter, temperature and overload	Compressor/limiter, temperature and overload	Compressor/limiter, temperature and overload
SPEAKERS	Subwoofer: 10, 80 W RMS, 4 Ω L and R: 6 1/2" + 1" tweeter 60 W maximum, 30 W RMS, 4 Ω	Subwoofer: 12", 150 W RMS, 4 Ω L and R: 8" + 1" tweeter 120 W maximum, 60 W RMS, 4 Ω	Subwoofer: 15", 250 W RMS, 4 Ω L and R: 8" + 1" tweeter 200 W maximum, 100 W RMS, 4 Ω
RESPONSE	Subwoofer: 35-150 Hz ±3 dB L and R: 100-20 000 Hz ±3 dB	Subwoofer: 35-150 Hz ±3 dB L and R: 100-20 000 Hz ±3 dB	Subwoofer: 35-150 Hz ±3 dB L and R: 100-20 000 Hz ±3 dB
INPUTS	2 balanced mics., combo (XLR and 6.3 mm jack) 2500 Ω 3.8 mV 2 stereo lines, 2 x 6.3 mm mono jack and 2 x RCA 20 000 Ω 350 mV	2 balanced mics., combo (XLR and 6.3 mm jack) 2500 Ω 3.8 mV 2 stereo lines, 2 x 6.3 mm jack and 2 x RCA 20 000 Ω 350 mV	2 balanced mics., combo (XLR and 6.3 mm jack) 2500 Ω 3.8 mV 2 stereo lines, 2 x 6.3 mm jack and 2 x RCA 20 000 Ω 350 mV
OUTPUTS	1 rec, 2 x RCA 2000 Ω 1 V 2 speakers L and R, speaker connector 4 Ω	1 rec, 2 x RCA 2000 Ω 1 V 2 speakers L and R, speaker connector 4 Ω	1 rec, 2 x RCA 2000 Ω 1 V 2 speakers L and R, speaker connector 4 Ω
INDICATORS	Compressor/limiter sub, L and R	Compressor/limiter sub, L and R	Compressor/limiter sub, L and R
CONTROLS	Gain, 2 band equalizer, effects send, panorama or balance and volume Sub and master (L y R) output volume	Gain, 2-band equalizer, effects send, panorama or balance and volume Sub and master (L y R) output volume	Gain, 2-band equalizer, effects send, panorama or balance and volume Sub and master (L y R) output volume
POWER SUPPLY	230 V AC, 350 W maximum	230 V AC, 450 W maximum	230 V AC, 600 W maximum
DIMENSIONS	Subwoofer: 470 x 590 x 355 mm depth L and R: 220 x 280 x 190 mm depth	Subwoofer: 530 x 650 x 440 mm depth L and R: 250 x 355 x 240 mm depth	Subwoofer: 560 x 770 x 475 mm depth L and R: 250 x 400 x 240 mm depth
WEIGHT	Subwoofer 44.2 kg L and R: 3.8 kg/u.	Subwoofer 65.6 kg L and R: 5.8 kg/u.	Subwoofer 79.2 kg L and R: 6.4 kg/u.
ACCESSORIES	2 x 4m loudspeaker cables, male speaker connector to male speaker connector ZA-16:16 mm adapter tube to 35 mm tube	2 x 4m loudspeaker cables, male speaker connector to male speaker connector -	2 x 4m loudspeaker cables, male speaker connector to male speaker connector -

Hi-Fi LOUDSPEAKERS. AMBIENT SERIES

Pairs of compact low impedance Hi-Fi loudspeakers, AMBIENT series. Specially designed for P.A applications and background music. They are a solution for installations in public places, such as restaurants, cafeterias, supermarkets, shopping centres, etc. High power and resistant loudspeakers with compact size and excellent finish. The loudspeakers include a wall mount with adjustable arm and steel safety cable allowing easy installation and positioning of the loudspeakers.



AMBIENT-20



AMBIENT-20B

	AMBIENT-20	AMBIENT-20B
CHARACTERISTICS	Pair of compact Hi-Fi loudspeakers. Speaker with shielded magnet. Bass reflex reinforcement system.	Pair of compact Hi-Fi loudspeakers. Loudspeaker with shielded magnet. Bass reflex reinforcement system.
POWER	40 W maximum, 20 W RMS	40 W maximum, 20 W RMS
SPEAKERS	1 x 3" PP woofer, 20.4 mm coil with shielded magnet	1 x 3" PP woofer, 20.4 mm coil with shielded magnet
RESPONSE	132-20 000 Hz	132-20 000 Hz
IMPEDANCE	6 Ω	6 Ω
SENSITIVITY	85 dB at 1 W/1 m	85 dB at 1 W/1 m
CONNECTORS	Spring terminals	Spring terminals
COLOUR	Black	White
DIMENSIONS	115 x 175 x 107 mm depth	115 x 175 x 107 mm depth
WEIGHT	2 x 0.8 kg	2 x 0.8 kg
ACCESSORIES	Mount with adjustable arm and steel safety cable	Wall mount with adjustable arm and steel safety cable

Hi-Fi LOUDSPEAKERS. PROBOX SERIES

Pairs of low impedance, compact Hi-Fi loudspeakers.

FONESTAR



PROBOX-52



PROBOX-122

PROBOX-52

PROBOX-122

CHARACTERISTICS	Pair of low impedance compact Hi-Fi loudspeakers.	Pair of compact low impedance Hi-Fi loudspeakers.
POWER	60 W maximum, 30 W RMS	120 W maximum, 60 W RMS
SPEAKERS	1 x 5" polypropylene woofer 1 x 3/4" dome tweeter	1 x 8" polypropylene woofer 1 x 1" dome tweeter
RESPONSE	60-18 000 Hz	45-20 000 Hz
INDICATORS	-	Level
IMPEDANCE	8 Ω	8 Ω
SENSITIVITY	89 dB at 1 W/1 m	90 dB at 1 W/1 m
SOUND PRESSURE	109 dB at maximum power	111 dB at maximum power
DISPERSION	90° H x 50° V	90° H x 50° V
CONNECTORS	Screw terminals or banana plugs	Screw terminals or banana plugs
CROSSOVER	Treble filter	2 ways
COLOUR	Black	Black
DIMENSIONS	158 x 247 x 152 mm depth	253 x 420 x 249 mm depth
WEIGHT	2 x 2.3 kg	2 x 7.2 kg
ACCESSORIES	Adjustable fixing mounts	Adjustable fixing mounts

Hi-Fi LOUDSPEAKERS. PRISMA SERIES

Pairs of low impedance compact Hi-Fi loudspeakers, PRISMA series. Triangular design suitable for installing in all types of surfaces, specially in corners.



PRISMA-42
PRISMA-82



PRISMA-42B
PRISMA-82B



PRISMA-42

PRISMA-42B

PRISMA-82

PRISMA-82B

CHARACTERISTICS	Pair of low impedance compact hi-fi loudspeakers.			
POWER	40 W maximum, 20 W RMS	40 W maximum, 20 W RMS	80 W maximum, 40 W RMS	80 W maximum, 40 W RMS
SPEAKERS	1 x 4" polypropylene woofer 1 x 1" dome tweeter	1 x 4" polypropylene woofer 1 x 1" dome tweeter	1 x 6 1/2" polypropylene woofer 1 x 1" dome tweeter	1 x 6 1/2" polypropylene woofer 1 x 1" dome tweeter
RESPONSE	70-18 000 Hz	70-18 000 Hz	55-20 000 Hz	55-20 000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY	88 dB at 1 W/1 m	88 dB at 1 W/1 m	89 dB at 1 W/1 m	89 dB at 1 W/1 m
SOUND PRESSURE	105 dB at maximum power	105 dB at maximum power	110 dB at maximum power	110 dB at maximum power
DISPERSION	90°	90°	90°	90°
CONNECTORS	Screw terminals or banana plugs	Screw terminals or banana plugs	Screw terminals or banana plugs	Screw terminals or banana plugs
CROSSOVER	Treble filter	Treble filter	Treble filter	Treble filter
COLOUR	Black	White	Black	White
DIMENSIONS	160 x 210 x 130 mm depth	160 x 210 x 130 mm depth	215 x 290 x 170 mm depth	215 x 290 x 170 mm depth
WEIGHT	2 x 1.5 kg	2 x 1.5 kg	2 x 3.2 kg	2 x 3.2 kg
ACCESSORIES	Adjustable fixing mounts	Adjustable fixing mounts	Adjustable fixing mounts	Adjustable fixing mounts

Hi-Fi LOUDSPEAKERS. BS SERIES

Pair of low impedance compact Hi-Fi loudspeakers.

BS-125

CHARACTERISTICS	Pair of compact low impedance Hi-Fi loudspeakers.
POWER	15 W maximum, 8 W RMS
SPEAKERS	1 x 3 woofer 1 x 1" piezo tweeter
RESPONSE	65-20 000 Hz
IMPEDANCE	8 Ω
SENSITIVITY	87 dB at 1 W/1 m
SOUND PRESSURE	96 dB at maximum power at 1 m
DIMENSIONS	110 x 180 x 100 mm depth
WEIGHT	2 x 0.7 kg
ACCESSORIES	Adjustable fixing mounts



AUTOAMPLIFIED HI-FI LOUDSPEAKERS. AMBIENT SERIES

FONESTAR

Pairs of low impedance compact Hi-Fi loudspeakers, AMBIENT series. Specially designed for P.A applications and background music. They are a solution for installations in public places, such as restaurants, cafeterias, supermarkets, shopping centres, etc. High power and resistant loudspeakers with compact size and excellent finish. The loudspeakers include a wall mount with adjustable arm and steel safety cable allowing easy installation and positioning of the loudspeakers.



AMBIENT-20A



AMBIENT-20BA



40 W max.
20 W RMS

AMBIENT-20A

40 W max.
20 W RMS

AMBIENT-20BA

CHARACTERISTICS	Pair of autoamplified compact Hi-Fi speakers. Both active loudspeakers with amplifier. Highly efficient class-D amplifier. Loudspeaker with shielded magnet. Bass reflex reinforcement system.	Pair of autoamplified compact Hi-Fi loudspeakers. Both active loudspeakers with amplifier. Highly efficient class-D amplifier. Loudspeaker with shielded magnet. Bass reflex reinforcement system.
POWER	40 W maximum, 20 W RMS Class-D amplifier Protection compressor/limiter	40 W maximum, 20 W RMS Class-D amplifier Protection compressor/limiter
SPEAKERS	1 x 3" polypropylene woofer, 20.4 mm coil with shielded magnet	1 x 3" polypropylene woofer, 20.4 mm coil with shielded magnet
RESPONSE	132-20,000 Hz	132-20,000 Hz
INPUTS	1 auxiliary line, 2 x RCA 775 mV 1 balanced line, 6.3 mm jack 775 mV	1 auxiliary line, 2 x RCA 775 mV 1 balanced line, 6.3 mm jack 775 mV
OUTPUTS	1 balanced line, 6.3 mm jack	1 balanced line, 6.3 mm jack
INDICATOR	Power	Operating
CONTROLS	On/off and volume	On/off and volume
COLOUR	Black	White
POWER SUPPLY	230 V AC	230 V AC, 40 W
DIMENSIONS	115 x 175 x 107 mm depth	115 x 175 x 107 mm depth
WEIGHT	2 x 1.3 kg	2 x 1.3 kg
ACCESSORIES	Wall mount with adjustable arm and steel safety cable	Wall mount with adjustable arm and steel safety cable

AUTOAMPLIFIED HI-FI LOUDSPEAKERS. PROBOX SERIES

Pairs of autoamplified compact Hi-Fi loudspeakers.



PROBOX-54A



PROBOX-124A



PROBOX-54A

15 + 15 W RMS

PROBOX-124A

40 + 40 W RMS

CHARACTERISTICS	Pair of compact powered Hi-Fi loudspeakers. Active loudspeaker with amplifier and output for passive loudspeaker.	Pair of compact autoamplified Hi-Fi loudspeakers. Active loudspeaker with amplifier and output for passive loudspeaker.
AMPLIFIER	15 + 15 W RMS	40 + 40 W RMS
SPEAKERS	1 x 5" polypropylene woofer 1 x 1" dome tweeter	1 x 8" polypropylene woofer 1 x 1" dome tweeter
RESPONSE	60-18,000 Hz	45-20 000 Hz
INPUTS	1 stereo auxiliary line, 2 x RCA 650 mV	1 stereo auxiliary line, 2 x RCA 650 mV
OUTPUTS	Speaker: Spring terminals	Speaker: Spring terminals
INDICATOR	Power	Power and level
DISPERSION	90° H x 50° V	90° H x 50° V
CONTROLS	Volume Bass: ±15 dB at 100 Hz Trebles: ±15 dB at 10,000 Hz Earth disconnection: GND lift	Volume Bass: ±15 dB at 100 Hz Trebles: ±15 dB at 10,000 Hz Earth disconnection: GND lift
COLOUR	Black	Black
POWER SUPPLY	230 V CA, 60 W	230/115 V AC, 140 W
DIMENSIONS	158 x 247 x 152 mm depth	253 x 420 x 249 mm depth
WEIGHT	Active speaker: 3 kg Passive speaker: 2 kg	Active speaker: 8.2 kg Passive speaker: 7 kg
ACCESSORIES	Adjustable fixing mounts	Adjustable fixing mounts

AUTOAMPLIFIED HI-FI LOUDSPEAKERS. PRISMA SERIES

FONESTAR

Pair of compact autoamplified Hi-Fi loudspeakers.



PRISMA-84A

25 + 25 W RMS

CHARACTERISTICS	Pair of compact autoamplified Hi-Fi loudspeakers. Active loudspeaker with amplifier and output for passive loudspeaker.
AMPLIFIER	25 + 25 W RMS
SPEAKERS	1 x 6 1/2" polypropylene woofer 1 x 1" dome tweeter
RESPONSE	55-20,000 Hz
INPUTS	1 stereo auxiliary line, 2 x RCA 460 mV
OUTPUTS	Speaker: Spring terminals
INDICATOR	Power
DISPERSION	90°
CONTROLS	Volume Bass: ±15 dB at 100 Hz Trebles: ±15 dB at 10,000 Hz Earth disconnection: GND lift
COLOUR	Black
POWER SUPPLY	230 V AC, 100 W
DIMENSIONS	215 x 290 x 175 mm depth
WEIGHT	Active speaker: 4.5 kg Passive speaker: 3.4 kg
ACCESSORIES	Adjustable fixing mounts

RELATED PRODUCTS



FAM-80
Noise filter and earth insulator for stereo line.
Page 169



TC-3SM
Converter of 1 stereo signal into 2 mono signals
Page 86.

AUTOAMPLIFIED HI-FI LOUDSPEAKERS. BAM SERIES

Pair of compact autoamplified Hi-Fi loudspeakers, 20 + 20 W RMS, with USB/MP3 player, remote control with standby, input selector, USB/MP3 player control, volume control and bass/treble tones.

Automatic standby function that activates or deactivates the standby mode automatically depending on the audio signal present in the input. It is also possible to select the activation mode when switching on in standby mode. Two selectable inputs. MP3 file USB player. Pair composed of an active loudspeaker with amplifier circuit and output for connecting to other passive loudspeakers. High quality audio. Adjustable mounts.

USB

MP3

MPEG



40 + 40 W max.
20 + 20 W RMS

40 + 40 W max.
20 + 20 W RMS

BAM-35AU

BAM-35BAU



CHARACTERISTICS	Pair of compact autoamplified hi-fi loudspeakers. USB/MP3 player. Remote control. Selectable standby function (auto and off). Pair composed of active loudspeaker with amplifier and passive loudspeaker. Shielded magnet speaker.	Pair of compact autoamplified Hi-Fi loudspeakers. USB/MP3 player. Remote control. Selectable standby function (auto and off). Pair composed of active loudspeaker with amplifier and passive loudspeaker. Shielded magnet speaker.
AMPLIFIER	40 + 40 W maximum 20 + 20 W RMS	40 + 40 W maximum 20 + 20 W RMS
SPEAKERS	1 x 5 1/4" polypropylene woofer with shielded magnet 1 x 1" dome tweeter	1 x 5 1/4" polypropylene woofer with shielded magnet 1 x 1" dome tweeter
RESPONSE	50-20 000 Hz	50-20,000 Hz
INPUTS	1 unbalanced stereo auxiliary line, 2 x RCA 1 balanced stereo line, Euroblock	1 unbalanced stereo auxiliary line, 2 x RCA 1 balanced stereo line, Euroblock
OUTPUT	Speaker: Euroblock terminals	Speaker: Euroblock terminals
FUNCTIONS	USB/MP3 player Selectable standby (auto and off) LED power indicator on the front panel Selected input indicator, function, USB/MP3 player and stand by on the back panel	USB/MP3 player Selectable standby (auto and off) LED power indicator on the front panel Selected input, function, USB/MP3 player and standby indicator on the back panel
DISPERSION	90° H x 60° V	90° H x 60° V
CONTROLS	Input selector: USB, balanced/unbalanced Volume Tone: Bass and treble ± 14 dB	Input selector: USB, balanced/unbalanced Volume Tone: Bass and treble ± 14 dB
REMOTE CONTROL	Standby Input selector, USB/MP3 player control Volume Tones: Bass and treble Mute	Standby Input selector, USB/MP3 player control Volume Tones: Bass and treble Mute
COLOUR	Black	White
POWER SUPPLY	230 V AC, 50 W	230 V AC, 50 W
DIMENSIONS	178 x 240 x 180 mm depth	178 x 240 x 180 mm depth
WEIGHT	Active speaker: 3 kg Passive speaker: 1.8 kg	Active speaker: 3 kg Passive speaker: 1.8 kg
ACCESSORIES	Adjustable fixing mounts	Adjustable fixing mounts

MOUNTS. STANDS FOR LOUDSPEAKERS

FONESTAR

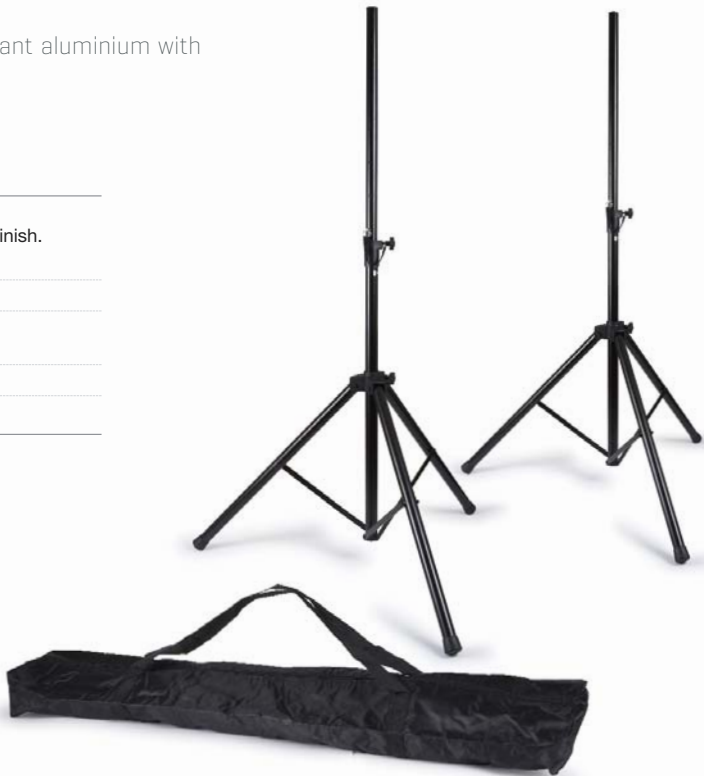
Stands for loudspeakers. Manufactured in extra-resistant aluminium with adjustable height.

	RS-503	RS-510
CHARACTERISTICS	Speaker stand for loudspeaker. Manufactured in extra-resistant aluminium, black finish. 35 mm upper tube. Screw-on base with hole for 35 mm tube.	Speaker stand for loudspeaker. Handle raising system. Manufactured in extra-resistant aluminium, black finish. 35 mm upper tube with 38 mm adapter tube. Screw on base with hole for 35mm tube.
HEIGHT	Adjustable 120 to 185 cm	Adjustable 116 to 204 cm
MAXIMUM BORNE WEIGHT	35 kg	50 kg
WEIGHT	1.8 kg	5.9 kg



Pair of loudspeaker stands. Manufactured in extra-resistant aluminium with adjustable height.

	RS-504-2 
CHARACTERISTICS	Pair of loudspeaker stands. Manufactured in extra-resistant aluminium, black finish. Upper tube: 35 mm.
HEIGHT	Adjustable from 130 to 200 cm
MAXIMUM BORNE WEIGHT	45 kg
WEIGHT	2 x 2.2 kg
ACCESSORIES	Transport bag



Speaker pole, for positioning loudspeaker over subwoofer.

	RS-560
CHARACTERISTICS	Speaker pole, with 35 mm hole in the base, for positioning loudspeaker over subwoofer, also with hole for 35 mm tube.
HEIGHT	Adjustable 78 to 132 cm
MAXIMUM BORNE WEIGHT	50 kg
WEIGHT	1.5 kg



MOUNTS. STANDS FOR LOUDSPEAKERS

Adapter tubes for a 35 mm tube.



ZA-16
ZA-20

ZA-16

ZA-20

CHARACTERISTICS	16 mm tube with adapter for a 35 mm tube. Black finish.	20 mm tube with adapter for a 35 mm tube. Black finish.
DIMENSIONS	170 mm height	170 mm height
WEIGHT	0.3 kg	0.4 kg
COMPATIBILITY	NOMAD-300: 2.1 auto-amplified system	-

MOUNTS. WALL MOUNTS FOR LOUDSPEAKERS

Adjustable wall mounts for loudspeakers.



SAL-566N



SAL-568N



SAL-567N



SAL-569N

SAL-566N **NI** SAL-567N SAL-568N SAL-569N

CHARACTERISTICS	Adjustable wall mount for loudspeakers with hole for 35 mm tube.	Adjustable wall mount for loudspeaker with hole for a 35 mm tube.	Adjustable wall mount for loudspeaker with hole for 35 or 38 mm tube.	Adjustable wall mount for loudspeakers.
ARM	180° horizontally adjustable -40° vertical tilt	Horizontally adjustable 180° Adjustable vertical tilt	180° horizontally adjustable Adjustable vertical tilt: 0°, -5° and -15°	180° horizontally adjustable ±30° vertical tilt
MAXIMUM BORNE WEIGHT	40 kg	30 kg	60 kg	40 kg
COLOUR	Black	Black	Black	Black
DIMENSIONS	Total: 250 x 230 x 375 mm depth Wall plate: 120 x 230 mm height Loudspeaker mount: 250 x 120 to 300 mm, adjustable to fix the loudspeaker with 35 mm tube	Wall plate: 100 x 200 mm Loudspeaker base: 150 mm width x 150 mm depth with 35 mm tube Length: 320 mm	Total: 200 x 200 x 350 mm depth Wall plate: 100 x 200 mm Screen mount: 200 x 100 a 250 mm, adjustable to hold a loudspeaker with 35 mm tube	Total: 95 x 190 x 151 mm depth Wall plate: 80 x 190 mm Mount for speaker: 95 x 152 mm, with holes for fixing with nuts and bolts
WEIGHT	2.1 kg	2.3 kg	1.9 kg	2 kg
ACCESSORIES	Nuts and bolts for wall installation Allen key	Nuts and bolts for installation on wall	38 mm adapter tube 6 screws with expanding steel wall plugs and screw caps	Nuts and bolts for fixing on the wall and assembling the loudspeaker

MOUNTS. WALL MOUNTS FOR LOUDSPEAKERS

FONESTAR

Pairs of adjustable wall mounts for loudspeakers. Loudspeaker plate for easy installation.



SAL-622N

SAL-553N

SAL-554B

SAL-555N

SAL-556B

CHARACTERISTICS	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.
ARM	Horizontally adjustable 120° Vertical tilt $\pm 20^\circ$	Horizontally adjustable 180° -20° vertical tilt	360° rotating -90° vertical tilt
MAXIMUM BORNE WEIGHT	10 kg	18 kg	4 kg
COLOUR	Black	Black	White
DIMENSIONS	Total: 65 x 151 x 115 mm depth Wall plate: 48 x 115 mm Loudspeaker mount: 65 x 145 mm with 5.25 mm holes with separation between screws of approximately 50 mm	Total: 152 x 90 x 270 to 405 mm depth Wall plate: 76 x 90 mm Mount for loudspeaker: 152 x 165 to 300 mm depth, adjustable for loudspeaker fixing	Total: 105 x 100 x 120 mm depth Wall plate: 105 x 100 mm Loudspeaker mount: 105 x 40 mm depth, with holes for fixing the loudspeaker using screws
WEIGHT	2 x 0.6 kg	2 x 0.7 kg	2 x 0.5 kg
ACCESSORIES	Nuts and bolts for installation in wall and loudspeaker assembly	Nuts and bolts for wall installation	Nuts and bolts for wall installation and loudspeaker assembly



SAL-557N

SAL-559N

SAL-560B

CHARACTERISTICS	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.
ARM	360° rotating -90° vertical tilt	160° horizontally adjustable -35° vertical tilt	180° horizontally adjustable $\pm 15^\circ$ vertical tilt
MAXIMUM BORNE WEIGHT	30 kg	20 kg	20 kg
COLOUR	Black	Black	White
DIMENSIONS	Total: 175 x 120 x 230 to 355 mm depth Wall plate: 120 x 120 mm Loudspeaker mount: 175 x 110 mm, with holes for fixing the loudspeaker using screws	Total: 180 x 245 x 390 to 560 mm depth Wall plate: 120 x 245 mm Loudspeaker mount: 180 x 195 to 365 mm, adjustable for loudspeaker fixing and with holes for fixing the loudspeaker using screws	Total: 152 x 127 x 345 mm depth Wall plate: 75 x 127 mm Loudspeaker mount: 152 x 145 to 275 mm, adjustable for loudspeaker fixing
WEIGHT	2 x 1.1 kg	2 x 2.3 kg	2 x 1 kg
ACCESSORIES	Nuts and bolts for wall installation	Nuts and bolts for wall installation and loudspeaker assembly	Nuts and bolts for wall installation

MOUNTS. WALL MOUNTS FOR LOUDSPEAKERS

Pairs of adjustable wall mounts for loudspeakers. Loudspeaker plate for easy installation.



	SAL-604P	SAL-604N	SAL-606P	SAL-608P
CHARACTERISTICS	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.
ARM	Tilt and turn	Tilt and turn	Tilt and turn	Tilt and turn
MAXIMUM BORNE WEIGHT	4 kg	4 kg	4 kg	4 kg
COLOUR	silver	Black	Silver	Silver
DIMENSIONS	Total: 86 x 40 x 76 mm depth Wall plate/loudspeaker mount: 86 x 40 mm, with holes for fixing the loudspeaker using screws	Total: 86 x 40 x 76 mm depth Wall plate/loudspeaker mount: 86 x 40 mm, with holes for fixing the loudspeaker using screws	Total: 86 x 42 x 83 mm depth Wall plate/loudspeaker mount: 86 x 42 mm, with holes for fixing the loudspeaker using screws	Total: 86 mm Ø x 76 mm depth Wall plate/loudspeaker mount: 86 mm Ø, with holes for fixing the loudspeaker using screws
WEIGHT	2 x 0.1 kg	2 x 0.1 kg	2 x 0.1 kg	2 x 0.1 kg
ACCESSORIES	Nuts and bolts for wall installation and loudspeaker assembly	Nuts and bolts for wall installation and loudspeaker assembly	Nuts and bolts for wall installation and loudspeaker assembly	Nuts and bolts for wall installation and loudspeaker assembly

Wall mounts for loudspeakers. Weatherproof. System for fixing to loudspeaker using 1/4" Whitworth screw. Adjustable in all directions.



	SAL-615BW	SAL-616NW	SAL-617BW	SAL-618NW
CHARACTERISTICS	Adjustable wall mount for loudspeakers. Weatherproof: waterproof, anti-corrosive, U.V protection		Pair of adjustable wall mounts for loudspeakers. Weatherproof.	
ARM	Adjustable in all directions Fixes to loudspeakers with 1/4" Whitworth screw		Adjustable in all directions Fixes to loudspeaker with 1/4" Whitworth screw or a plate with holes	
MAXIMUM BORNE WEIGHT	10 kg		2.3 kg	
COLOUR	White	Black	White	Black
DIMENSIONS	Total: 51 x 72 x 65 mm depth Wall plate: 51 x 72 mm		Total: 46 x 95 x 76 mm depth Wall mount: 30 x 52 mm Wall/loudspeaker mount: 40 x 95 mm with holes for using screws to attach it to the wall	
WEIGHT	-		2 x 0.1 kg	
ACCESSORIES	Hexagonal spanner for loudspeaker assembly		Set of screws to fix the mount to the wall and assemble the loudspeaker	
COMPATIBILITY	PRISMA-30BTW, PRISMA-55BTW and others	PRISMA-30TW, PRISMA-55TW and others	-	

Adjustable wall mounts for loudspeakers, column speakers, etc



SAL-612N

CHARACTERISTICS	Pair of adjustable wall mounts for loudspeakers.	Pair of adjustable wall mounts for loudspeakers.
ARM	Adjustable in all directions 4 installation systems: 1/4" Whitworth bolt, plate for 2 bolts, plate for 1 bolt or hole for hanging	360° rotating ±15° horizontally adjustable ±15° vertical tilt
MAXIMUM BORNE WEIGHT	10 kg	2.5 kg
COLOUR	Black	Black
DIMENSIONS	Total: 65 x 110 x 90 mm depth Wall plate: 65 x 110 mm Mount for loudspeaker: 15 x 83 mm or 25 x 40 mm, with holes for fixing to the loudspeaker with bolts	Total: 94 x 97 x 97 mm depth Wall plate: 94 x 97 mm Loudspeaker plate: 43 x 60 mm with 6 mm slot holes, with a separation of approximately 50 mm between bolts
WEIGHT	2 x 0.1 kg	2 x 0.2 kg
ACCESSORIES	Nuts and bolts for installing on the wall and mounting the loudspeaker	Nuts and bolts for wall installation and loudspeaker assembly



SAL-620N



SAL-623N

CHARACTERISTICS	Pair of adjustable wall mounts for loudspeakers.	Adjustable wall mount for loudspeakers.
ARM	180° horizontally adjustable ±20° vertical tilt	Horizontally adjustable 200° -70° vertical tilt
MAXIMUM BORNE WEIGHT	3.5 kg	11.5 kg
COLOUR	Black	Grey
DIMENSIONS	Total: 49 x 87 x 64 mm depth Wall plate: 49 x 78 mm Loudspeaker mount: 28 x 60 mm with 5.25 mm holes with a separation of approximately 10 mm between screws	Total: 44 x 115 x 90 mm depth Wall plate: 44 x 95 mm depth Loudspeaker mount: 25 x 115 mm with 7 mm slots with 39-100 mm separation between bolts
WEIGHT	2 x 0.1 kg	0.3 kg
ACCESSORIES	Fixings for wall installation and loudspeaker assembly	Nuts and bolts for installation on wall and loudspeaker assembly. Specially recommended for column speakers FCS-16 and FCS-21



SAL-700P

LOUDSPEAKERS. WOOFER

Wide range of bass woofer loudspeakers for musical instruments, loudspeakers, Hi-Fi loudspeakers, etc.

	3"	3"	4"	4"	5 1/4"
					
	UT-336	UT-354	UT-4104	UT-410	UT-525
DIAMETER	3" = 7.5 cm	3" = 7.5 cm	4" = 10 cm	4" = 10 cm	5 1/4" = 13 cm
POWER	12 W maximum, 8 W RMS	15 W maximum, 10 W RMS	30 W maximum, 20 W RMS	30 W maximum, 20 W RMS	15 W maximum, 10 W RMS
RESPONSE	120-14 000 Hz	70-10 000 Hz	60-12 000 Hz	60-12 000 Hz	50-11 000 Hz
IMPEDANCE	8 Ω	4 Ω	4 Ω	8 Ω	8 Ω
SENSITIVITY	89 dB at 1 W/1 m	89 dB at 1 W/1 m	89 dB at 1 W/1 m	89 dB at 1 W/1 m	88 dB at 1 W/1 m
SOUND PRESSURE	97 dB at maximum power at 1 m	98 dB at maximum power at 1 m	107 dB at maximum power at 1 m	107 dB at maximum power at 1 m	96 dB at maximum power at 1 m
MAGNET	3.6 Oz	5.4 Oz	10 Oz	10 Oz	5.4 Oz
WEIGHT	0.3 kg	0.4 kg	0.6 kg	0.7 kg	0.5 kg

	5 1/4"	6 1/2"	6 1/2"	8"
				
	UT-528	UT-610	FPW-100	20F-100A
DIAMETER	5 1/4" = 13 cm	6 1/2" = 16.5 cm.	6 1/2" = 16.5 cm	8" = 20 cm
POWER	25 W maximum, 15 W RMS	30 W maximum, 20 W RMS	100 W maximum, 50 W RMS	30 W maximum, 20 W RMS
RESPONSE	50-12 000 Hz	50-10 000 Hz	100-5500 Hz	45-7000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY	90 dB at 1 W/1 m	88 dB at 1 W/1 m	90 dB at 1 W/1 m	88 dB at 1 W/1 m
SOUND PRESSURE	98 dB at maximum power at 1 m	96 dB at maximum power at 1 m	-	96 dB of maximum power at 1 m
MAGNET	8 Oz	10 Oz	20 Oz	10 Oz
VOICE COIL	-	1"	-	1"
WEIGHT	0.6 kg	0.8 kg	1.2 kg	0.8 kg


20F-200CX
FPW-200
25F-300CX
FPW-250

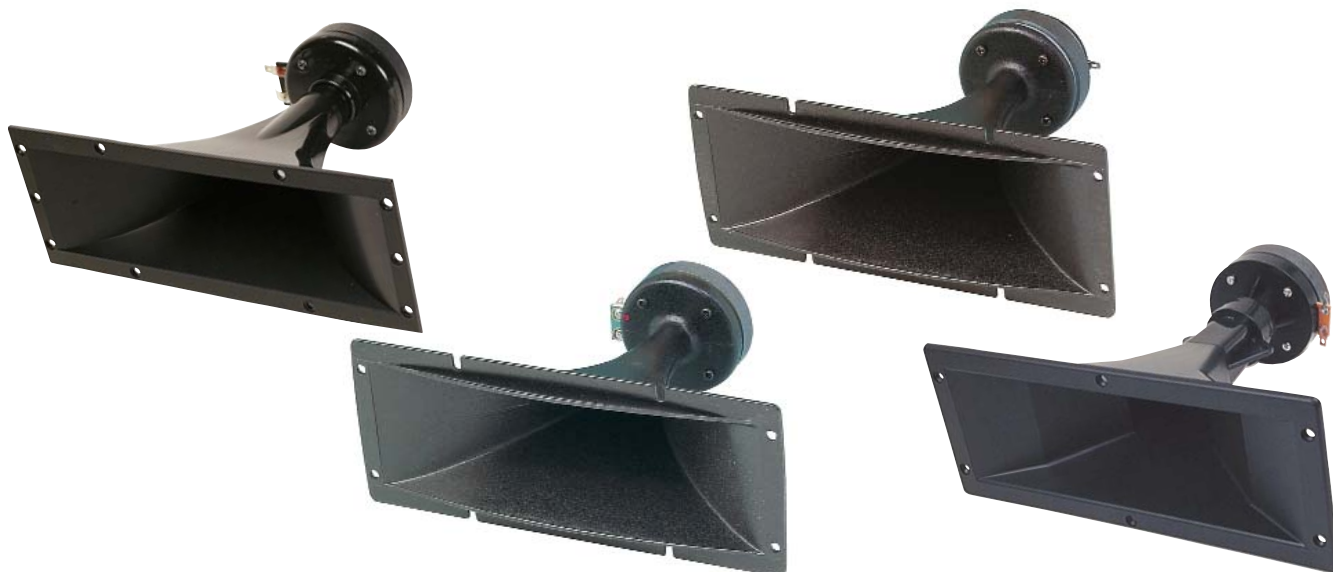
DIAMETER	8" = 20 cm	8" = 20 cm	10" = 25 cm	10" = 25 cm
POWER	45 W maximum, 30 W RMS	200 W maximum, 100 W RMS	60 W maximum, 40 W RMS	250 W maximum, 125 W RMS
RESPONSE	40-6500 Hz	55-4000 Hz	30-4500 Hz	48-4500 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY	91 dB at 1 W/1 m	91 dB at 1 W/1 m	91 dB at 1 W/1 m	92 dB at 1 W/1 m
SOUND PRESSURE	100 dB of maximum power at 1 m	-	101 dB at maximum power at 1 m	-
MAGNET	20 Oz	20 Oz	30 Oz	25 Oz
VOICE COIL	1 1/2"	-	1 1/2"	-
WEIGHT	1.5 kg	1.3 kg	2.3 kg	1.9 kg


FPW-350
FPW-500
FPW-600

DIAMETER	12" = 30.5 cm	15" = 38 cm	18" = 46 cm
POWER	350 W maximum, 175 W RMS	500 W maximum, 250 W RMS	600 W maximum, 300 W RMS
RESPONSE	40-4000 Hz	38-3500 Hz	25-3500 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY	93 dB at 1 W/1 m	96 dB at 1 W/1 m	97 dB at 1 W/1 m
MAGNET	30 Oz	50 Oz	70 Oz
WEIGHT	2.9 kg	4.6 kg	7.3 kg

LOUDSPEAKERS. MID AND TREBLE

Different types of horn speakers and mid/treble speakers with different powers.



H-39C200

H-41C8

H-41C20

H-2611

POWER	30 W maximum, 15 W RMS	40 W maximum, 20 W RMS	50 W maximum, 25 W RMS	60 W maximum, 30 W RMS
RESPONSE	1500-15 000 Hz	1500-15 000 Hz	800-20 000 Hz	2000-18 000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY	96 dB at 1 W/1 m	96 dB at 1 W/1 m	106 dB at 1 W/1 m	107 dB at 1 W/1 m
SOUND PRESSURE	106 dB at maximum power at 1 m	109 dB at maximum power at 1 m	120 dB at maximum power at 1 m	122 dB at maximum power at 1 m
MOTOR	-	-	-	Phenolic diaphragm Standard 1 3/8" thread
DIFFUSER	Reinforced plastic	Metal	Metal	Reinforced plastic. 1 3/8" standard thread
DIMENSIONS	Total: 264 x 100 x 185 mm fondo Insert: 240 x 78 x 182 mm fondo	Total: 270 x 108 x 210 mm depth Insert: 245 x 75 x 195 mm depth	Total: 270 x 110 x 205 mm depth Insert: 224 x 80 x 187 mm depth	Total: 265 x 110 x 226 mm depth Inset: 230 x 82 x 221 mm depth
WEIGHT	0.7 kg	1.1 kg	1.1 kg	0.9 kg



H-2121

H-4115

H-4624

M12-053A

POWER	80 W maximum, 40 W RMS	100 W maximum, 50 W RMS	150 W maximum, 75 W RMS	35 W maximum, 20 W RMS
RESPONSE	800-20 000 Hz	600-18 000 Hz	500-14000 Hz	500-8000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY	105 dB at 1 W/1 m	107 dB at 1 W/1 m	102 dB at 1 W/1 m	90 dB at 1 W/1 m
SOUND PRESSURE	121 dB at maximum power at 1 m	124 dB at maximum power at 1 m	121 dB at maximum power at 1 m	98 dB at maximum power at 1 m
MOTOR	Titanium diaphragm Standard 1 3/8" thread	Titanium diaphragm Standard 1 3/8" thread	Titanium diaphragm Standard 1 3/8" thread	-
DIFFUSER	Reinforced plastic 1 3/8" standard thread	Reinforced plastic. 1 3/8" standard thread	Reinforced plastic 1 3/8" standard thread	-
DIMENSIONS	Total: 218 x 218 x 202 mm depth Insert: 185 x 185 x 195 mm depth	Total: 420 x 160 x 275 mm depth Insert: 370 x 112 x 182 mm depth	Total: 466 x 245 x 363 mm depth Insert: 410 x 193 x 287 mm depth	Total: 130 mm Ø x 50 mm depth Insert: 110 mm Ø x 43 mm depth
WEIGHT	1.7 kg	2.3 kg	5.3 kg	0.5 kg

LOUDSPEAKERS. TWEETER

FONESTAR

Loudspeakers for treble tweeter in round, square or rectangular format, for Hi-Fi loudspeakers, loudspeakers, etc.



	TW-2502	HT-2M	HT-351F	H-0550	H-0551 NI	H-0355
POWER	10 W maximum, 5 W RMS	25 W maximum, 12 W RMS	30 W maximum, 15 W RMS	50 W maximum, 25 W RMS	80 W maximum, 40 W RMS	200 W maximum, 100 W RMS
RESPONSE	1 500-20 000 Hz	5000-20 000 Hz	2000-20 000 Hz	2000-20 000 Hz	2000-20 000 Hz	3000-18 000 Hz
IMPEDANCE	8 Ω	8 Ω	8 Ω	4 Ω	8 Ω	8 Ω
SENSITIVITY	85 dB at 1 W/1 m	91 dB at 1 W/1 m	91 dB at 1 W/1 m	94 dB at 1 W/1 m	108 dB at 1 W/1 m	102 dB at 1 W/1 m
SOUND PRESSURE	90 dB at maximum power at 1 m	100 dB at maximum power at 1 m	101 dB at maximum power at 1 m	107 dB at maximum power at 1 m	-	-
DIAPHRAGM	-	-	-	-	Titanium diaphragm	Titanium diaphragm
DIFFUSER	-	Reinforced plastic	Reinforced plastic	Metal	Aluminium	Metal
DIMENSIONS	Total: 90 mm Ø x 27 mm depth Insert: 63 mm Ø x 26 mm depth	Total: 85 x 60 x 65 mm depth Insert: 62 x 42 x 57 mm depth	Total: 135 x 79 x 94 mm depth Insert: 95 x 60 x 69 mm depth	Total: 103 x 103 x 69 mm depth Insert: 93 mm Ø x 55 mm depth	Total: 103 x 103 x 69 mm depth Insert: 93 mm Ø x 55 mm depth	Total: 100 x 100 x 68 mm depth Insert: 93 mm Ø x 53 mm depth
WEIGHT	0.1 kg	0.3 kg	0.3 kg	1.2 kg	1.4 kg	1.4 kg

Speakers for treble tweeters. Piezoelectric Hi-Fi tweeters with different formats.



FSN-1005



FSN-1005A



FSN-1016

INPUT	Maximum: 35 V (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)	35 Vp (12.5 W RMS in 4 Ω system, 25 W RMS in 8 Ω system)
RESPONSE	3200-15000 Hz	3200-15 000 Hz	3200-15000 Hz
IMPEDANCE	High Z	High Z	High Z
SENSITIVITY	100 dB at 1 W/1 m	100 dB at 1 W/1 m	100 dB at 1 W/1 m
DIMENSIONS	Interior assembly Total: 85 x 85 x 70 mm depth Insert: 77 mm Ø x 64 mm depth	External assembly Total: 85 x 85 x 75 mm depth Insert: 77 mm Ø x 70 mm depth	145 x 67 x 50 mm depth



FSN-1018



FSN-1038



FSN-1046

INPUTS	35 Vp (12.5 W RMS in 4 Ω system, 25 W RMS in 8 Ω system)	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)	Maximum: 35 Vp (25 W RMS in 4 Ω system, 12 W RMS in 8 Ω system)
RESPONSE	3200-15000 Hz	2200-15 000 Hz	4500-20 000 Hz
IMPEDANCE	High Z	High Z	8 Ω (1 kHz)
SENSITIVITY	100 dB at 1 W/1 m	95 dB at 1 W/1 m	105 dB at 1 W/1 m
DIMENSIONS	187 x 80 x 105 mm	Total: 95 mm Ø x 60 mm depth Insert: 68 mm Ø x 56 mm depth	Total: 62 x 62 x 52 mm depth Insert: 56 mm Ø x 44 mm depth

LOUDSPEAKERS. SHIELDED MAGNET

Shielded magnet speakers for TV and computer replacements, etc.



SR-2002



SR-2145



SQ-2143



SQ-2504

DIAMETER	2" = 50 mm	2 1/4" = 57 mm	2 1/4" = 57 mm	2 1/2" = 64 mm
POWER	2 W	3 W	6 W maximum, 3 W RMS	8 W maximum, 4 W RMS
RESPONSE	330-14 000 Hz	300-14 000 Hz	320-14 000 Hz	180-15 000 Hz
IMPEDANCE	4 Ω	4 Ω	4 Ω	4 Ω
SENSITIVITY	83 dB at 1 W/1 m	85 dB at 1 W/1 m	84 dB at 1 W/1 m	83 dB at 1 W/1 m
MAGNET	0.6 Oz shielded	1 Oz shielded	1 Oz shielded	1 Oz shielded
WEIGHT	-	0.1 kg	0.1 kg	0.1 kg



SR-3013



SQ-3512



SQ-3513



SQ-3520

DIAMETER	3" = 75 mm	3 1/2" = 90 mm	3 1/2" = 90 mm	3 1/2" = 90 mm
POWER	1 W	3 W	3 W	20 W maximum, 10 W RMS
RESPONSE	50-10 000 Hz	50-10 000 Hz	50-10 000 Hz	120-15 000 Hz
IMPEDANCE	8 Ω	16 Ω	8 Ω	4 Ω
SENSITIVITY	88 dB at 1 W/1 m	90 dB at 1 W/1 m	90 dB at 1 W/1 m	87 dB at 1 W/1 m
SOUND PRESSURE	93 dB at maximum power at 1 m	96 dB at maximum power at 1 m	96 dB at maximum power at 1 m	-
MAGNET	1.3 Oz shielded	1.3 Oz shielded	1.3 Oz shielded	3 Oz shielded
WEIGHT	-	0.2 kg	0.2 kg	0.4 kg

SQ-4015

SQ-4020

DIAMETER	4" = 100 mm	5 1/4" = 130 mm
POWER	25 W maximum, 15 W RMS	40 W maximum, 20 W RMS
RESPONSE	90-14 000 Hz	80-12 000 Hz
IMPEDANCE	4 Ω	4 Ω
SENSITIVITY	87 dB at 1 W/1 m	89 dB at 1 W/1 m
MAGNET	5.4 Oz shielded	8 Oz shielded
WEIGHT	0.6 kg	0.9 kg



SQ-4015



SQ-4020

2 x 3 1/2"

SV-2353



3 x 5"

SV-3513

2 x 6"

SV-2606



4 x 6"

SV-4622

SV-2353

SV-2606

SV-3513

SV-4622

DIAMETER	2 x 3 1/2" = 50 x 90 mm	2 x 6" = 50 x 152 mm	3 x 5" = 75 x 127 mm	4 x 6" = 100 x 152 mm
POWER	6 W maximum, 3 W RMS	1 W	3 W	4 W
RESPONSE	170-15 000 Hz	50-8000 Hz	50-10 000 Hz	50-20 000 Hz
IMPEDANCE	4 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY	76 dB at 1 W/1 m	88 dB at 1 W/1 m	90 dB at 1 W/1 m	90 dB at 1 W/1 m
SOUND PRESSURE	-	93 dB at maximum power at 1 m	96 dB at maximum power at 1 m	97 dB at maximum power at 1 m
MAGNET	1.7 Oz shielded	0.6 Oz shielded	1.3 Oz shielded	2.2 Oz shielded
WEIGHT	0.2 kg	-	0.2 kg	0.2 kg

LOUDSPEAKERS. MINIATURE

FONESTAR

Loudspeakers with Mylar cone for use in entry phones, alarms, intercoms, transistors, headphones...Especially for outdoor use.



	DIAMETER	POWER	IMPEDANCE	SENSITIVITY AT 1 W/ 1 m	SOUND PRESSURE	MAGNET	CONE	OTHERS	WEIGHT
EP-29	1 1/8" = 29 mm	0.10 W	8 Ω	-	-	Ferrite	Mylar	4 mm extra-flat	-
EP-36	1 3/8" = 36 mm	0.30 W	8 Ω	-	-	Alnico	Mylar	4 mm extra-flat	-
EP-40	1 5/8" = 40 mm	0.30 W	8 Ω	-	-	Alnico	Mylar	4 mm extra-flat	-
AL-1582M	1 1/2" = 37 mm	0.25 W	8 Ω	-	-	Alnico	Mylar	-	-
AL-1732M	1 3/4" = 45 mm	0.25 W	32 Ω	-	-	Alnico	Mylar	-	-
FE-385M	3" = 76 mm	0.50 W	8 Ω	-	-	Ferrite	Mylar	-	-
FE-3850M	3" = 76 mm	5 W	8 Ω	91 dB	97 dB at 1 m	Ferrite	Mylar	-	0.2 kg
FE-35810M	3 1/2" = 89 mm	10 W	8 Ω	91 dB	99 dB	Ferrite	Mylar	-	0.3 kg
FE-4815M	4" = 102 mm	15 W	8 Ω	91 dB	100 dB at 1 m	Ferrite	Mylar	-	0.4 kg

Loudspeakers with cardboard cone for use in entry phones, alarms, transistors, intercoms, headphones, etc.



	FE-282	FE-2283	FE-2583	FE-385
DIAMETER	2" = 50 mm	2 1/4" = 57 mm	2 1/2" = 64 mm	3" = 76 mm
POWER	0.2 W	0.3 W	0.3 W	0.5 W
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω
SOUND PRESSURE	88 dB at maximum power at 1 m	88 dB at maximum power at 1 m	88 dB at maximum power at 1 m	88 dB at maximum power at 1 m
MAGNET	Ferrite	Ferrite	Ferrite	Ferrite

ACCESSORIES. TESTERS

Audio cable tester.

CTM-101 **N!**

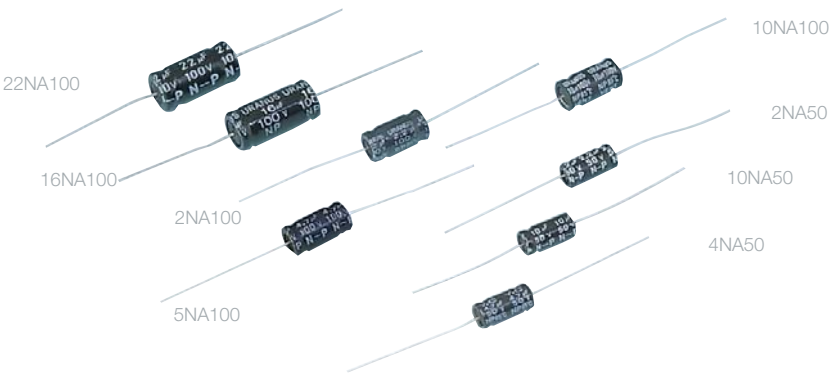
CHARACTERISTICS	Tester for 6.3 mm plug, RCA, XLR, speaker cables and DIN 5 audio connectors. For easily checking the continuity and the audio cable connectors. Including probes for checking point to point continuity.
CONNECTORS	6.3 mm jack, RCA, XLR, speaker connectors and DIN 5
INDICATORS	LEDs for testing and battery
POWER SUPPLY	1 x 6LR61, 9 V battery
DIMENSIONS	88 x 36 x 138 mm depth
WEIGHT	0.6 kg



ACCESSORIES. CONDENSERS

Unpolarized condensers for crossovers.

	CAPACITY	MAXIMUM VOLTAGE
2NA50	2.2 μ F	50 V
4NA50	4.7 μ F	50 V
10NA50	10 μ F	50 V
2NA100	2.2 μ F	100 V
5NA100	4.7 μ F	100 V
10NA100	10 μ F	100 V
16NA100	16 μ F	100 V
22NA100	22 μ F	100 V



ACCESSORIES. CROSSOVER NETWORKS



X-2140

CROSSOVER	2-way
POWER	150 W
IMPEDANCE	8 or 16 Ω selectable
FREQUENCY	Cut off: 5000 Hz, -12 dB/Oct.
WEIGHT	0.2 kg



SC-302

CROSSOVER	3-way
POWER	50 W
IMPEDANCE	4 Ω
FREQUENCY	Cut off: 800 and 9000 Hz, -6 dB/Oct.
WEIGHT	0.1 kg



X-3120

CROSSOVER	3 ways
POWER	150 W
IMPEDANCE	8 Ω
FREQUENCY	Cut-off: 800 and 5000 Hz, -6dB/Oct.
WEIGHT	0.2 kg



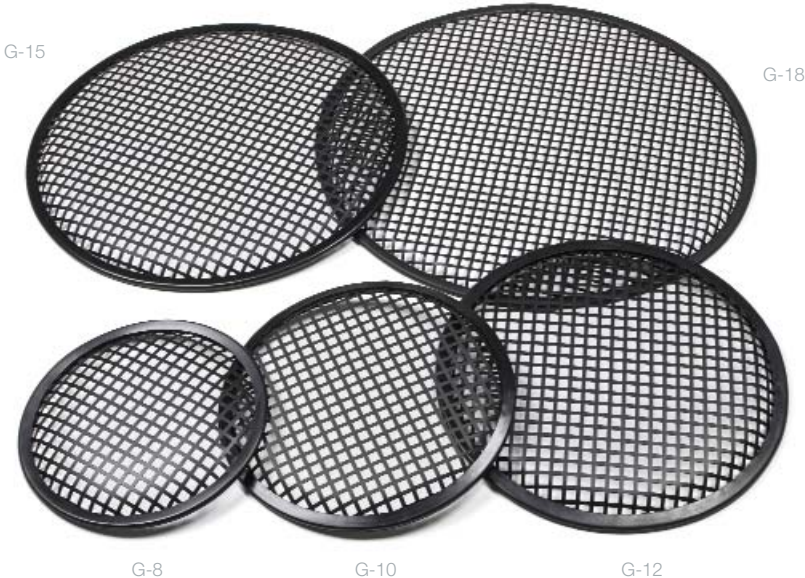
ECPA-3512

CROSSOVER	3-way
POWER	500 W
IMPEDANCE	8 Ω
FREQUENCY	Cut off: 800 and 5000 Hz, -12 dB/Oct.
WEIGHT	0.7 kg

ACCESSORIES. GRILLES

Metal grilles for loudspeakers.

	CHARACTERISTICS	WEIGHT
G-8	Metal grille for 8" loudspeaker	0.1 kg
G-10	Metal grille for 10" loudspeaker	0.2 kg
G-12	Metal grille for 12" loudspeaker	0.3 kg
G-15	Metal grille for 15" loudspeaker	0.4 kg
G-18	Metal grille for 18" loudspeaker	0.5 kg



ACCESSORIES . COMPONENTS

Angle mounts, nuts and bolts for loudspeakers.



AN-4040



T-305

	CHARACTERISTICS	DIMENSIONS	PACKAGING
AN-4040	Plastic angle mounts for loudspeaker attachment	40 x 40 mm	4 unit blister pack
T-305	Nuts and bolts to fit in to wood	30 x 5 mm	8 unit blister pack

Corner-covers, base sockets.



ES-8272-4



ZA-525



ZA-539

CHARACTERISTICS	Extra-hard plastic protective corner-covers for professional loudspeakers. Bag of 4.	Adapter for 35 mm tube. Socket for professional loudspeaker bases. Adaptable to stand, mod. RS-503.	Adapter for 38 mm tube. Socket for professional loudspeaker bases. Adaptable to stand, mod. RS-510.
DIMENSIONS	80 x 50 mm 3.5 mm thick	-	-
WEIGHT	0.1 kg	0.3 kg	0.3 kg

Connection plates and carrying handles.



PL-14



PL-11



A-2716

CHARACTERISTICS	Connection plate for loudspeakers with screw terminals or banana plugs.	Double connection plate for loudspeakers with screw terminals or banana plugs and spring terminals	Built in carrying handle to be fixed into speakers. Tough, hardwearing plastic.
DIMENSIONS	140 x 100 mm	140 x 100 mm	270 x 160 mm
WEIGHT	-	-	0.3 kg