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**Sound** Systems

**PROEL** 



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# MQ SERIES

**MQ** is a series of mixers created by PROEL to offer in a **very compact and stylish package** a **high input density**, a **full set of features** and a **superior audio quality**, at a very convenient price point. The MQ series includes **5 models** with 6, 10, 12 and 16 inputs, able to satisfy most of the sound reinforcement applications. Carefully designed and engineered in Italy by PROEL R&D, MQ mixers are hosted in ultra-rugged cases, providing **extended durability** for a stage-proof use.

The smallest models of the series, **MQ6** and **MQ6FX**, offer in an ultra-compact format the performance of professional consoles, delivering a **clean and accurate sound**. The MQ6FX, despite its small size, includes a **high-quality 24-bit DSP** able to provide musicians and performers with studio-grade effects.

**MQ10FX**, together with 3-band EQ and **one-knob intelligent COMPRESSORS**, offers also 100 DSP presets with a convenient LED display for the selection.

**MQ12USB** additional features include an **USB audio I/O interface** and extended mixing capability with MONITOR send, STEREO GROUP bus and 45mm control faders.

The top-of-the-line **MQ16USB** feature **16 inputs and 12 microphone channels** together with sweep mids and one-knob intelligent COMPRESSORS on mono channels, 4 AUX sends, STEREO GROUP bus and 60mm control faders.

Optional padded **carrying bags** and metal brackets for **19" rack mounting** are available for selected models.



## MQ6 **NEW**

- Ultra-compact 6-input 2-bus mixer
- 4 MONO MIC/LINE inputs with 2-band EQ, LO-CUT filter and PHANTOM power
- 2 low-noise, very high-headroom microphone preamplifiers
- 2 STEREO LINE inputs
- HEADPHONES output
- Electronically balanced MAIN MIX outputs with XLR-M and ¼" JACK connectors
- Two 4-LED VU-METERS
- Applications: home recording and rehearsal, ultra-small personal mixer for musicians



## MQ6FX **NEW**

- Ultra-compact 6-input 2-bus mixer with effect
- 4 MONO MIC/LINE inputs with 2-band EQ, LO-CUT filter and PHANTOM power
- 2 low-noise, very high-headroom microphone preamplifiers
- 2 STEREO LINE inputs
- 1 EFFECT send
- 24bit studio-grade digital effect with 16 presets
- HEADPHONES output
- Electronically balanced MAIN MIX outputs with XLR-M and ¼" JACK connectors
- Two 4-LED VU-METERS
- Applications: home recording and rehearsal, ultra-small PA systems for schools, gyms and meeting rooms, personal mixer for musicians



High-headroom,  
low-noise **MIC**  
preamps



**XLR balanced**  
MAIN MIX outputs

# Mixers **MQ** SERIES



24bit studio-grade digital effect with 100 presets

## OPTIONAL ACCESSORIES

### BAGMQ10FX



Padded bag



## MQ10FX

- Compact 10-input 2-bus mixer with effect
- 2 MONO MIC/LINE inputs, 2 STEREO MIC/LINE inputs and 2 STEREO LINE inputs
- 4 low-noise, very high-headroom microphone preamplifiers
- PHANTOM power
- 'One-knob' COMPRESSOR with LED indicator on MONO channels
- 3-band EQ and LO-CUT filter
- 1 EFFECT send
- 24bit studio-grade digital effect with 100 presets, 2-digit display and footswitch MUTE
- HEADPHONES and CONTROL ROOM outputs
- Electronically balanced MAIN MIX outputs with XLR-M and 1/4" JACK connectors
- Two 8-LED VU-METERS
- Applications: small live bands (2 to 4 people), home and multimedia applications, rehearsal rooms, small fixed installations



One-knob intelligent  
**COMPRESSORS**

## MQ12USB **NEW**

- Compact 12-input 4-bus mixer with effect and USB I/F
- 4 MONO MIC/LINE inputs, 2 STEREO MIC/LINE inputs and 2 STEREO LINE inputs
- 6 low-noise, very high-headroom microphone preamplifiers
- PHANTOM power
- 'One-knob' COMPRESSOR with LED indicator on MONO channels
- 3-band EQ with sweep mids and LO-CUT filter
- 1 AUX send pre-fader and 1 AUX send post-fader
- 24bit studio-grade digital effect with 100 presets, 2-digit display and footswitch MUTE
- Built-in USB interface for PC recording and playback
- GROUPS 1&2 with MIX routing and output
- HEADPHONES and CONTROL ROOM outputs
- Electronically balanced MAIN MIX outputs with XLR-M and 1/4" JACK connectors
- Two 8-LED VU-METERS
- Universal switching built-in power supply
- Applications: small live bands (3 to 5 people), home and multimedia applications, rehearsal rooms, small fixed installations

### OPTIONAL ACCESSORIES

#### BAGMQ12FX



Padded bag

#### RACKMQ12USB



Adapter for rack

# Mixers **MQ** SERIES



**USB** interface with routing options for PC recording and playback

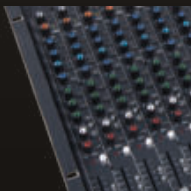
## OPTIONAL ACCESSORIES

### **BAGMQ16FX**



Padded bag

### **RACKMQ16 USB**



Adapter for rack

## **MQ16USB**

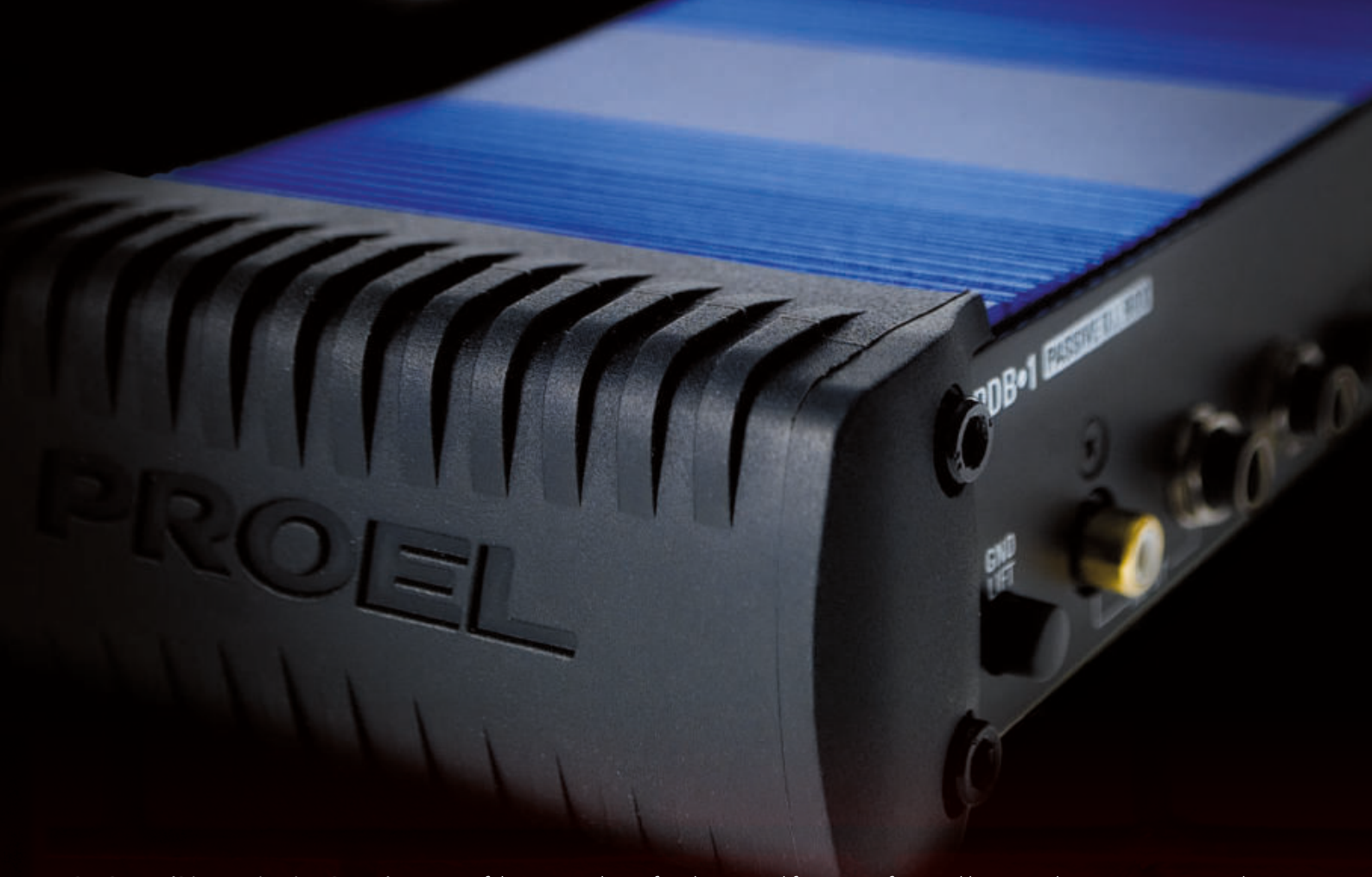
- Compact 16-input 4-bus mixer with effect and USB I/F
- 8 MONO MIC/LINE inputs and 4 STEREO MIC/LINE inputs
- 12 low-noise, very high-headroom microphone preamplifiers
- PHANTOM power
- 'One-knob' COMPRESSOR with LED indicator on MONO channels
- 3-band EQ with sweep mids and LO-CUT filter
- 3 AUX sends pre-fader e 1 AUX send post-fader
- 24bit studio-grade digital effect with 100 presets, 2-digit display and footswitch MUTE
- Built-in USB interface with routing options for PC recording and playback
- GROUPS 1&2 with MIX routing and output
- 2-TRACK, HEADPHONES and CONTROL ROOM outputs
- Electronically balanced MAIN MIX outputs with XLR-M and ¼" JACK connectors
- Two 12-LED VU-METERS
- Universal switching built-in power supply
- Applications: full live bands, home and multimedia applications, rehearsal rooms, fixed installations





		MQ6	MQ6FX	MQ10FX	MQ12USB	MQ16USB	Connectors
<b>MONO INPUT CHANNEL</b>							
<b>Mic Input</b>	sensitivity	from -10 to -50 dB	from -10 to -50 dB	from -10 to -50 dB	from -10 to -50 dB	from -10 to -50 dB	Balanced XLR-F
	impedance	2 Kohm	2 Kohm	2 Kohm	2 Kohm	2 Kohm	
<b>Line Input</b>	sensitivity	from +20 to -20 dB	from +20 to -40 dB	from +20 to -40 dB	from +20 to -20 dB	from +20 to -20 dB	Balanced JACK
	impedance	10 Kohm	10 Kohm	10 Kohm	10 Kohm	10 Kohm	
<b>Lo cut</b>		75Hz, 18dB/oct.	75Hz, 18dB/oct.	75Hz, 18dB/oct.	75Hz, 18dB/oct.	75Hz, 18dB/oct.	
<b>EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	±15 dB @ 12 KHz	±15 dB @ 12 KHz	±15 dB @ 12KHz	±15 dB @ 12KHz	
	MID (peaking)			±15 dB @ 2.5 KHz	±15 dB @ 2.5KHz	±15 dB from 100 Hz to 8 kHz	
	LOW (shelving)	±15 dB @ 80Hz	±15 dB @ 80 Hz	±15 dB @ 80 Hz	±15 dB @ 80Hz	±15 dB @ 80Hz	
<b>Compressor</b>				CH 1-2, 1-knob	CH 1-4, 1-knob	CH 1-8, 1-knob	
<b>STEREO INPUT CHANNEL</b>							
<b>Mic Input</b>	sensitivity			from -10 to -50 dB	from -10 to -50 dB	from -10 to -50 dB	Balanced JACK
	impedance			2 Kohm	2 Kohm	2 Kohm	
<b>Line Input</b>	sensitivity	-10 dB	-10 dB	from +20 to -20 dB	from +20 to -20 dB	from +20 to -20 dB	Balanced JACK
	impedance	10 Kohm	10 Kohm	10 Kohm	10 Kohm	10 Kohm	
<b>EQ</b>	HIGH (shelving)			±15 dB @ 12KHz	±15 dB @ 12KHz	±15 dB @ 12KHz	
	MID (peaking)			±15 dB @ 2.5KHz	±15 dB @ 2.5KHz	±15 dB @ 2.5KHz	
	LOW (shelving)			±15 dB @ 80Hz	±15 dB @ 80Hz	±15 dB @ 80Hz	
<b>MASTER SECTION</b>							
<b>MAIN MIX</b>	nom. out level	+4 dBu	+4 dBu	+4 dBu	+4 dBu	+4 dBu	Balanced JACK and XLR-M
<b>C. ROOM output</b>	nom. out level			0 dBu	0 dBu	0 dBu	Unbalanced JACK
<b>GROUP output</b>	nom. out level				+4 dBu	+4 dBu	Unbalanced JACK
<b>FX/AUX output</b>	nom. out level			0 dBu	0 dBu	0 dBu	Unbalanced JACK
<b>2TRK</b>	nom. out level					0 dBu	Unbalanced RCA
	nom. in level					0 dBu	Unbalanced RCA
<b>HEADPHONES</b>	min. impedance	32 ohm	32 ohm	32 ohm	32 ohm	32 ohm	
	max. out level	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	Stereo JACK
<b>USB</b>					Stereo IN/OUT, 16-bit converter, 48 KHz sample rate		Type B
<b>DIGITAL EFFECT PROCESSOR (not available for MQ6)</b>							
<b>Effects</b>			16 presets	100 presets	100 presets	100 presets	
<b>A/D and D/A converters</b>			24 bit				
<b>DSP resolution</b>			24 bit				
<b>Controls</b>			ROTARY SELECTOR, PEAK LED, MUTE switch	2-DIGIT display, DIAL, PEAK LED, MUTE switch, MUTE footswitch			
<b>GENERAL SPECIFICATIONS</b>							
<b>Maximum level</b>	all outputs					+22 dBu	
<b>Crosstalk</b>	meas. at 1 KHz					>82 dBu	
<b>HUM &amp; Noise</b>	unweighted					<-93 dBu	
<b>THD + Noise</b>	at +4dB, 1kHz					<0.008 %	
<b>Dimensions (WxHxD)</b>		162 x 210 x 51 mm	162 x 210 x 51 mm	275 x 279 x 81 mm	346 x 355 x 95 mm	481 x 432 x 104 mm	
<b>Weight</b>		1.00 kg	1.00 kg	2.50 kg	4.50 kg	6.50 kg	
<b>POWER REQUIREMENTS</b>							
<b>Supply</b>		18 VAC 1000 mA use only supplied AC/AC ADAPTER	18 VAC 1000 mA use only supplied AC/AC ADAPTER	18 VAC 1000 mA use only supplied AC/AC ADAPTER			
<b>Mains Supply Voltage:</b>		110-120 VAC (±10%) 50 / 60 Hz (US plug) 230-240 VAC (±10%) 50 / 60 Hz (EU plug) 240 VAC (±10%) 50 / 60 Hz (UK plug)	110-120 VAC (±10%) 50 / 60 Hz (US plug) 230-240 VAC (±10%) 50 / 60 Hz (EU plug) 240 VAC (±10%) 50 / 60 Hz (UK plug)	110-120 VAC (±10%) 50 / 60 Hz (US plug) 230-240 VAC (±10%) 50 / 60 Hz (EU plug) 240 VAC (±10%) 50 / 60 Hz (UK plug)	110-240 VAC (±10%) 50 / 60 Hz (US plug) 50 / 60 Hz (EU plug) available with EU, US or UK mains cord	110-240 VAC (±10%) 50 / 60 Hz available with EU, US or UK mains cord	
<b>Consumption</b>		34 W	34 W	34 W	35 W	35 W	

# DB SERIES



**D.I. Boxes (Direct Injection Boxes)** are part of the essential set of tools required for any professional live sound situation or any application where the audio devices feature different levels, impedance and connections. Transforming audio signals from unbalanced to **balanced**, D.I. Boxes **reduce the possibility of electrical disturbances** on the line - especially over long cable runs such as from a musical instrument to the FoH mixing console.

The DB series includes **two different models of high-performance D.I. boxes**: a single channel passive (**DB1P**) and a dual channel active (**DB2A**). The circuitry of each model has been designed with the maximum care, using carefully **selected electronic components**, such as isolation transformers (DB1P) and low-distortion ICs. This guarantees a **clean, hum-free signal transmission** from the instrument to the mixing consoles, even on very long cables, without impedance matching problems. On the front panels, a **wide choice of connectors** is available (XLR, JACK and RCA, depending on the model), allowing easy connection from a wide range of sources, including keyboards and samplers, guitars and basses, PC audio cards and any type of music player.

The DB2A can be **powered** by 48V phantom power from the mixing console, by a 9V battery or, in large applications using many DI BOXES, by an external 9V power adapter that can be daisy-chained using the double power connector on the rear panel.

The **innovative mechanical design** of the three models includes an aluminum shell and rubber corners, which provide maximum protection in the toughest situations. When the two rubber corners are removed, two guides are exposed, allowing the coupling of two DI units, which can then be **mounted in a 19" standard rack** (rack ears included). This unique feature is extremely convenient for engineers who need to use a large number of DI BOXES in the same application.





## DB2A

- Dual channel active D.I. Box
- STEREO configuration: one unit can be used for a stereo device
- High dynamic headroom with minimum phase and harmonic distortion
- High input impedance reduces loading
- Very good electronic performance thanks to SMD components and low noise IC
- Very efficient ground lift circuitry
- Input JACK, RCA and XLR connectors with link possibility (all the connections on the same side)
- -20 dB, -30 dB PAD
- Powering options: 9V battery, +48V, external AC/DC adapter supply
- 19" rack mountable (ears included)
- Particularly suited for use with stereo keyboards, DJ equipment and PC-based audio systems



## DB1P

- Single channel passive D.I. Box
- MU-METAL core isolation transformer for full isolation between the musician's gear and the sound reinforcement system
- Specially-designed MAKE-UP filter at 4 kHz is for cutting any hiss or buzz noise coming from acoustic or electric guitars and basses
- High dynamic headroom with minimum phase and harmonic distortion
- Input JACK and XLR connectors with link possibility (all the connections on the same side)
- -20 dB, -40 dB, -60 dB PAD
- 19" rack mountable (ears included)
- Designed for applications where it is not possible or practical to power the unit

	DB2A	DB1P
<b>System Type</b>	2-channel active DI BOX	1-channel passive DI BOX
<b>INPUT SECTION</b>		
<b>Input Impedance</b>	200K Ohm (pad at 0 dB) 47k Ohm (pad at -20 dB) 47k Ohm (pad at -30 dB)	120K Ohm (pad at 0 dB) 47k Ohm (pad at -20 dB) 47k Ohm (pad at -40 dB)
<b>Max Input Level</b>	+5 dBu (pad at 0 dB) +25 dBu (pad at -20 dB) +35 dBu (pad at -30 dB)	+15 dBu (pad at 0 dB) +35 dBu (pad at -20 dB) +55 dBu (pad at -40 dB)
<b>Connectors</b>	Two Parallel 1/4" jack connectors and a parallel RCA connector (unbalanced) Jack: Tip Hot / Sleeve Ground	Two Parallel 1/4" jack connectors and a parallel RCA connector (unbalanced) Jack: Tip Hot / Sleeve Ground
<b>OUTPUT SECTION</b>		
<b>Output</b>	Active discrete devices (transformer less)	Transformer Balanced (isolated with shielding)
<b>Max. Output Level</b>	into 600 Ohms or greater +5 dBu (for 0.1% THD at 50 Hz) +5 dBu (for 0.1% THD at 1k Hz)	into 1K Ohms or greater -5 dBu (for 0.1% THD at 50 Hz) +5 dBu (for 0.1% THD at 1k Hz)
<b>Connector</b>	XLR male: Pin 2 Hot / Pin 3 Cold / Pin 1 Ground	XLR male: Pin 2 Hot / Pin 3 Cold / Pin 1 Ground
<b>System Performance</b>		
<b>Insertion loss</b>	< 1 dB	20 dB
<b>CMR</b>	> 50 dB	> 100 dB
<b>Phase distortion</b>	+20° at 20 Hz, -30° at 20k Hz	0° at 20 Hz, 0° at 20k Hz
<b>Distortion THD 20÷20k Hz 0dBu</b>	< 0.007 %	< 0.007 %
<b>Noise</b>	< -105 dBu unweighted	< -105 dBu unweighted
<b>Frequency Response</b>	10 Hz to 40 kHz, +0dB/-1 dB	10 Hz to 100 kHz, +0dB/-1 dB
<b>Controls</b>	On/off, Pad -20, Pad -30, Gnd Lift	Pad -20, Pad -40, Gnd Lift, Filter (12" emulator)
<b>Indicators</b>	On	-
<b>GENERAL</b>		
<b>Phantom Power</b>	+24 volts DC to +48 volts DC	-
<b>External AC/DC adapter</b>	+9 volts DC	-
<b>Standalone/Standby</b>	9 volt PP3 type, battery preferably alkaline	-
<b>Current consumption</b>	less than 8 mA	-
<b>Dimensions (W x H x D)</b>	215 x 50 x 125 mm	215 x 50 x 125 mm
<b>Weight (excluding batteries)</b>	1.06 kg (2.34 lb)	1.04 kg (2.29 lb)



# 100 SERIES

The 100 Series is a range of D.I. Boxes and Headphone Amps designed to complement audio systems in **stage applications, recording studios** and **fixed installations**.

Hosted in a stylish extruded and stackable **aluminum shell** or in a sturdy metal chassis, the 100 Series products are meant to deliver sound quality, versatility and **stage-proof reliability** in a very affordable package.



## DIRECT100A

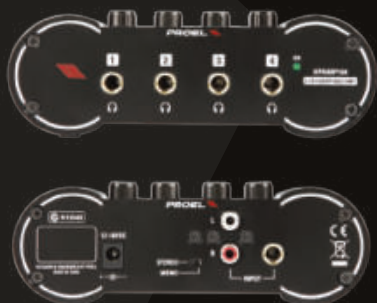
- Active Direct Injection Box
- High quality isolation transformer for ultra-flat frequency response
- Low-noise OP amps with high-quality sound performance
- XLR-F and 1/4" JACK input connectors + 1/4" JACK link
- XLR-M balanced output
- 20dB PAD and GND lift switch
- Stackable aluminum shell



## DIRECT100P

- Passive Direct Injection Box
- High quality isolation transformer for ultra-flat frequency response
- High quality electronic components
- 1/4" JACK input and link connectors
- XLR-M balanced output
- 20dB & 40dB PAD and GND lift switch
- Stackable aluminum shell





## HPAMP104

- 4-CH Headphone Amplifier
- Very compact and portable package
- 1/4" JACK + RCA stereo/mono input
- 4 x 1/4" JACK stereo headphone outputs with individual level controls
- 2 x 45mW @ 100 ohm max output level
- 16 ohm minimum output impedance (per channel)
- Powered by DC adapter (included)
- Stackable aluminum shell



## HPAMP106

- 6-ch Headphone Amplifier
- 6 independent high-power amplifier sections suitable for virtually any type of headphones
- 4 selectable main stereo/mono inputs with 1/4" JACK connectors (REAR panel)
- 6 stereo headphone outputs with individual level controls , input selector and 1/4" JACK connectors (FRONT panel)
- 2 x 193mW max output level at 32 ohm (per channel)
- 16 ohm minimum output impedance (per channel)
- Built-in power supply with shielded transformer and voltage selector.
- 19" rack mountable metal chassis

	DIRECT100A	DIRECT100P
<b>System Type</b>	1 channel active DI	1 channel passive DI
<b>INPUT SECTION</b>		
<b>Input Impedance</b>	>250 Kohm	>250 Kohm
<b>Max Input Level</b>	+6 (PAD at 0) / +26 (PAD at 20) dBu	+10 (PAD at 0) / +30 (PAD at 20) / +50 (PAD at 40) dBu
<b>Connectors</b>	1 x XLR-F + 1 x 1/4" jack unbalanced	1 x 1/4" jack unbalanced
<b>Link</b>	1 x 1/4" jack unbalanced	1 x 1/4" jack unbalanced
<b>OUTPUT SECTION</b>		
<b>Output</b>	Transformer Balanced (fully isolated)	Transformer Balanced (isolated with shielding)
<b>Insertion Loss</b>	0 dB	26 dB
<b>Load Impedance</b>	600 Ohms or greater	600 Ohms or greater
<b>Connector</b>	XLR male	XLR male
<b>SYSTEM PERFORMANCE</b>		
<b>Distortion THD 50±20k Hz 0dBu</b>	< 0.005 %	< 0.007 %
<b>Noise</b>	< -105 dBu unweighted	-
<b>Frequency Response</b>	10 Hz to 40 kHz (-3 dB)	40 Hz to 20 kHz (-3 dB)
<b>GENERAL</b>		
<b>Controls</b>	ON/OFF, PAD -20, GND LIFT	PAD 0 / -20 / -40, GND LIFT
<b>Indicators</b>	Power ON	-
<b>Phantom Power</b>	+18 volts DC to +48 volts DC	-
<b>Battery</b>	9 volt PP3 type alkaline	-
<b>Dimensions (W x H x D)</b>	152 x 50 x 134 mm	134 x 50 x 105 mm
<b>Weight (excluding batteries)</b>	0,70 Kg	0,55 Kg

	HPAMP104	HPAMP106
<b>System Type</b>	4-channel headphone amplifier	6-channel headphone amplifier
<b>INPUT SECTION</b>		
<b>Inputs</b>	1 stereo	4 stereo
<b>Input Impedance</b>	500 Kohm	47 Kohm
<b>Max Input Level</b>	+15 dBu	+25 dBu
<b>Connectors</b>	1/4" jack stereo, 2 x RCA	2 x 1/4" jack unbalanced (each input)
<b>OUTPUT SECTION</b>		
<b>Outputs</b>	4 stereo	6 stereo
<b>Maximum output</b>	(2x) 45mW @ 100 ohm (each)	(2x) 193 mW @ 32 ohm (each)
<b>Load Impedance</b>	minimum 16 ohm per channel	minimum 16 ohm per channel
<b>Max gain</b>	+20 dB each channel	+13 dB each channel
<b>Connector</b>	1/4" jack stereo (each output)	1/4" jack stereo (each output)
<b>SYSTEM PERFORMANCE</b>		
<b>Distortion (THD)</b>	0.02 %	0.02 %
<b>Noise</b>	< -98 dBu unweighted	< -98 dBu unweighted
<b>Frequency Response</b>	20 Hz - 20 KHz (-3 dB)	20 Hz - 20 KHz (-3 dB)
<b>GENERAL</b>		
<b>Controls</b>	OUTPUT LEVEL, INPUT STEREO/MONO	OUTPUT LEVEL, INPUT SELECTOR
<b>Indicators</b>	Power ON	Power ON
<b>Power supply</b>	12-18 VDC (adapter included)	Selectable 100-120 VAC, 220-240 VAC, 50-60 Hz
<b>Dimensions (W x H x D)</b>	152 x 50 x 72 mm	480 x 44 x 210 mm
<b>Weight</b>	0,8 Kg	3,9 Kg

# PC SERIES

The PC260 digital loudspeaker controller is based on the **PROEL CORE DSP platform** and feature state-of-the-art signal processing, advanced functions a very intuitive UI, with a direct access to all the editing functions, and remote control capability. The **40bit floating point resolution** and the 24bit AD/DA converters ensure a perfect signal integrity with a dynamic range in excess of 110dB, for a superior sonic performance.

The PC260 includes a full set of functions and has 2 inputs (with the choice of **AES digital input**) and 6 outputs. Each INPUT features 5 bands of full PARAMETRIC EQ (including parametric, shelving, notch, res. HP and LP, allpass and bandpass), 28 bands of GRAPHIC EQ and 3 bands of an extremely versatile and powerful **DYNAMIC EQ**, together with a fully programmable COMPRESSOR/LIMITER and up to 600ms of delay. The OUTPUTS include any kind of crossover filters with slope up to 48dB per octave, together with 5 bands of PEQ, fully programmable COMPRESSOR/ LIMITER and up to 600ms of delay. Additional features include a 1/3 oct. **RTA** with dedicated MIC input with phantom power and a GROUPING function.

The **SPL Manager**, specifically designed for the application in fixed installations, is a very powerful tool that allows to schedule, in 4 different scenes, 16 events on each input and output, including MUTE, level change, COMPRESSOR threshold change and PRESET change. These events can be then performed automatically according to the internal clock of the unit.

PC260 can be remotely controlled with **PRONET software** through the USB port on the front panel and it can be included in a PRONET **network** using the two RJ-45 connectors on the rear panel (with the optional USB2CAN-D converter).



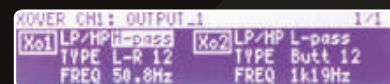


# PC260

- 40bit floating point resolution CORE DSP
- 24bit AD/DA converters
- 110dB dynamic range
- 5 bands of full PARAMETRIC EQ on each INPUT and OUTPUT
- 28 bands of GRAPHIC EQ on each INPUT
- 3 bands of DYNAMIC EQ on each INPUT
- Fully programmable COMPRESSOR/LIMITER on each INPUT and OUTPUT
- Up to 600ms delay time on each INPUT and OUTPUT
- Full METERING on each INPUT and OUTPUT
- RTA with dedicated MIC input
- GROUPING function
- SPL manager
- AES digital input
- PRONET remote control thru USB and network capability

## PC260

INPUT SECTION	
Inputs	2 electronically balanced - XLR F (IN) + XLR M (LINK)
Input Impedance	> 10k ohms
Maximum Input Level	+20dBu (-6dB pad)
Input gain	+6 dB to -30 dB in 0.2 dB steps
Digital Input	AES/EBU
OUTPUT SECTION	
Outputs	6 - XLR M
Maximum Output Level	+20dBu
Output Gain	+15 dB to -30 dB in 0.2 dB steps and mute
CROSSOVER FILTERS	
Slopes	6/12/18/24/48dB per octave
Type	Bessel / Butterworth / Linkwitz-Riley
DELAYS	
Max Delay time	600 ms on all In and Out
Delay Step	21 µs
PARAMETRIC EQ FILTERS	
Maximum number of filters	5 Per input / 5 per output
EQ Type	Parametric, Notch, Shelf, Bandpass, resonant HP/LP, Allpass
EQ Gain	+15 dB to -15 dB in 0.2 dB steps
Q (bandwidth)	0.4 to 28.85 (3 to 0.05, 1/20 oct. steps)
EQ freq	15.6 Hz – 22.62 kHz (1/20 oct. steps)
Shelving gains	±15 dB in 0.2 dB steps
DYNAMIC EQ FILTERS	
Maximum number of filters	3 per input
EQ Type	Parametric, Shelf 6
EQ Gain	+15 dB to -15 dB in 0.2 dB steps
Q (bandwidth)	0.4 to 28.85 (3 to 0.05, 1/20 oct. steps)
EQ freq	15.6 Hz – 22.62 kHz (1/20 oct. steps)
Shelving gains	±15 dB in 0.2 dB steps
GRAPHIC EQ	
Maximum number of EQ.	1 per input
EQ Type	28 band 1/3 oct.
EQ freq	31.5Hz - 16kHz 1/3 oct.
EQ Gain	+15 dB to -15 dB in 0.2 dB steps
EXTRA FEATURES	
RTA range	20Hz-20kHz 1/3oct.
RTA mic input	15V phantom power
SPLM	4 scene /16 events for each scene
PROCESS \ CONVERSION	
AD/DA conversion	24 bit
AD/DA latency	1.68 ms (analogue in – analogue out @ 48 kHz)
Sampling frequency	48 KHz
Internal processing	40 bit floating point
GENERAL PERFORMANCE (FILTERS OUT)	
Frequency response	+½ dB 20 Hz~20 kHz
Dynamic range	>110 dB 20 Hz~20 kHz unwtid
Distortion (THD)	< 0.015% @ 1kHz, +18dBu
Display	192x32 LCD Graphic Display
Metering	Input: 2 x 4 LED - Output: 6 x 4 LED
Remote control	USB, RJ45 PRONET In/Out
GENERAL	
Dimensions	44 x 482 x 295 mm
Weight	4.1 kg (9 lb)
AC Power	80 to 250V ±15% @ 50/60 Hz



## USB2CAN-D



Dual-output USB to CAN converter



# DPX PFC SERIES

**DPX PFC** is a series of **ultra-lightweight** power amplifiers able to provide, for professional mobile and fixed PA systems, a huge amount of power and the **maximum performance and portability in a very affordable package**.

Thanks to the **high-density Class D technology** employed in the output stages, we've been able to build very powerful amplifiers in an ultra-compact and lightweight package. The extremely efficient **Switch Mode Power Supply (SMPS) with Power Factor Correction technology (PFC)** helps to reduce further the weight and provides universal mains operation, delivering constant energy to the loudspeakers regardless of the AC line voltage fluctuations and eliminating the need for market specific power supplies and related reliability issues.

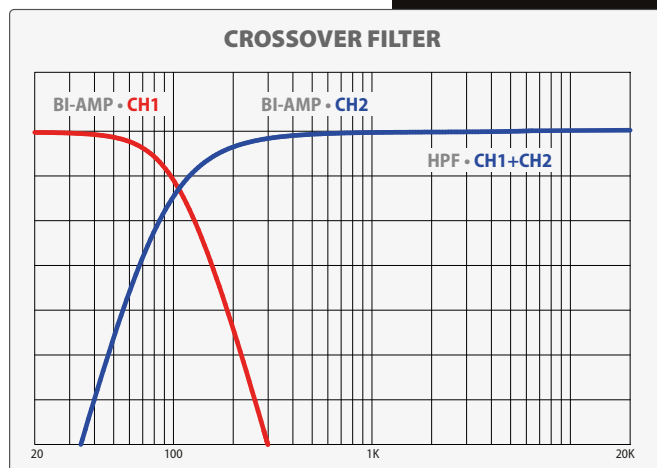
All models feature a **built-in 24dB/octave stereo crossover** with BI-AMP and HIGH-PASS options, for easily filtering a 2-way system without the need of additional outboard. Fast-attack precise CLIP LIMITERS guarantee maximum output without distortion, while a comprehensive protection system safeguards both the speakers and the amplifier.

The electronics is hosted in a **feather-light all-aluminum case**, able to provide an efficient cooling and, at the same time, protection and durability over the years.

**DPX PFC** are power amplifiers offering extraordinary value to professional entertainers, DJ and sound engineers looking for **massive output, excellent performance** and **absolute portability**.



- High-density Class D technology
- Very efficient Switch Mode Power Supply (SMPS) with PFC
- Built-in 24dB/octave stereo crossover
- Extensive protection system for maximum reliability
- Integrated fast-attack CLIP LIMITERS
- Precise 8-segment LED ladders
- FRONT-TO-BACK cooling system with variable speed fan
- Ultra-lightweight all-aluminum chassis
- TOTAL WEIGHT less than 5kg



	DPX1200PFC	DPX1700PFC	DPX2500PFC
Power 8 ohm*	350	500	650
Power 4 ohm**	600	850	1250
Power BRIDGE 8 ohm**	1200	1700	2500
* W RMS per channel, both channel driven, 1KHz THD 1%, ** 40ms burst			
Output Stage	Class D		
Frequency Response	20 Hz - 20 kHz		
Input Sensitivity	+2.2 dBu (1.0 Vrms)		
Input Impedance	20 kΩ balanced / 10 kΩ unbalanced		
Damping Factor	> 500 @ 8 ohm		
S/N Ratio (Unweighted)	> 100 dB		
THD+N	< 0.15 %		
Input Connectors	XLR F (INPUT), XLR F (LINK)		
Output Connectors	NL4 SPEAKON		
Controls	INPUT LEVEL, STEREO/BRIDGE-PARALLEL, FLAT/BI-AMP/HPF		
HPF/BI-AMP filter	LR 24dB / Oct. @ 100 Hz		
LED Indicators	7-LED BAR (ON, LIMIT, PROTECTION, -5dB / -10dB / -20dB / -40dB SIGNAL)		
Cooling	Variable speed DC fan, air flow from front to rear		
Protections	AC low power, DC, thermal, short circuit, VHF, CLIP limiter		
Power Supply	230 VAC 50 Hz or 120 VAC 60 Hz		
Dimensions (W x H x D)	483 x 89 x 255 mm		
Weight	3.8 Kg (8.4 lb)	3.8 Kg (8.4 lb)	4.2 Kg (9.3 lb)

**NEW**

**DPX1200PFC**  
**DPX1700PFC**  
**DPX2500PFC**

# HPX SERIES

HPX is a series of power amplifiers designed to provide entertainers and audio professionals with **quality performance** and **maximum portability** at a very affordable price.

Combining rock-solid CLASS AB, CLASS H and CLASS I power stages to extremely efficient **SWITCH MODE power supplies**, the HPX amplifiers delivers from 900W to 8000W of pure power to your speaker system in **2-ohm operation**, providing clear and defined highs together with extremely punchy lows.

Thanks to the **SMPS** light-weight technology and to the efficient cooling systems, the HPX come in a very compact and portable package, yet sturdy enough to provide the maximum protection and durability over the years.

In the models from 900 to 2800, a **built-in selectable LPN** (Low-Pass Notch) filter enhances the amplifier response at the low frequencies, providing an increased punch while protecting the speakers from over-excursion and increasing the headroom.

HPX4600 and HPX6000 feature a 3-tier CLASS H power stage, while the biggest model of the series, HPX8000, makes use of the advanced **CLASS I technology**, achieving a much greater efficiency and sonic quality than any other standard amplifier classes and offering an **extremely high power density**. With an overall efficiency higher than 75% these three models represent a cost-effective solution also for large sound reinforcement systems requiring very high power levels combined to top quality performance.





- Integrated CLIP LIMITERS (user-defeatable in 4600 and 6000)
- Selectable LPN filter (Low-Pass Notch - 900 to 2800)
- STEREO/PARALLEL/BRIDGE mode
- 2- or 3-position GAIN selector
- XLR, 1/4" JACK and RCA input connectors (900 to 2800)
- SPEAKON and binding post output connectors
- AC, DC, thermal and short-circuit protection
- FRONT-TO-BACK ventilation system with variable speed fan and removable dust filters
- Compact chassis with die-cast handles

	HPX900	HPX1200	HPX2400	HPX2800	HPX4600	HPX6000	HPX8000
<b>Power 8 ohm*</b>	200	300	450	600	850	1200	1800
<b>Power 4 ohm*</b>	300	450	800	1000	1400	2000	3200
<b>Power 2 ohm**</b>	450	600	1200	1400	2300	3000	3900
<b>Power BRIDGE 8 ohm*</b>	600	900	1600	2000	2800	4000	6000
<b>Power BRIDGE 4 ohm**</b>	900	1200	2400	2800	4600	6000	7200
<b>* W RMS per channel, both channel driven, 1KHz THD 1%, ** 40ms burst</b>							
<b>Output Stage</b>	Class AB			Class H			Class I
<b>Frequency Response</b>	20 Hz - 20 kHz						
<b>Input Impedance</b>	10 kΩ unbalanced - 20 kΩ balanced						
<b>Damping Factor</b>	>100					>200	
<b>Slew Rate</b>	>20V/us						
<b>S/N Ratio (Unweighted)</b>	>85 dB	>90 dB			>80 dB		>85 dB
<b>Input Connectors</b>	XLR M, 1/4" JACK, RCA				NEUTRIK Combo and XLR M		
<b>Output Connectors</b>	SPEAKON and Binding Post						
<b>Controls</b>	Detented INPUT LEVEL control, GAIN selector, STEREO/BRIDGE/PAR MODE selector LOW-PASS NOTCH (LPN - 900 to 2800), GND lift, SOFT CLIPPING (4600, 6000)						
<b>LED Indicators</b>	STANDBY, ON, PARALLEL, BRIDGE, SIGNAL, LIMIT, PROTECT - 8000: TEMP, -5/-10/-20						
<b>Cooling</b>	Variable speed DC fan						
<b>Protections</b>	AC low power, DC, thermal, short circuit, VHF, CLIP limiter						
<b>Power Supply</b>	230 VAC 50 Hz or 120 VAC 60 Hz						
<b>Dimensions (W x H x D)</b>	483 x 89 x 335		483 x 89 x 395		483 x 89 x 505		483 x 89 x 451
<b>Weight</b>	6.0 kg (13.2 lb)	6.9 kg (15.2 lb)	9.2 kg (20.3 lb)	9.2 kg (20.3 lb)	13.0 kg (28.7 lb)	13.6 kg (29.9 lb)	15.5 kg (34.2 lb)

## HPX900



## HPX1200



## HPX2400



## HPX2800



## HPX4600



## HPX6000



## HPX8000



# HPD SERIES

**HPD2004** and **HPD4004** are high-performance professional 4-channel amplifiers employing PROEL **DA modules**, a new generation of digitally controlled Class D power amplifiers with Switch Mode Power Supply (SMPS) featuring an innovative technology.

Unlike most of the competitors in this range, which use a fixed switching frequency, the PWM (Pulse Width Modulation) output stage of DA modules uses a **variable switching frequency** according to the input signal level. Thanks to a sophisticated hardware and software structure, this system offers performances far above most of the products currently available on the market: **better sound definition**, high-fidelity reproduction of any frequency of the audio range, **higher dynamics** at any signal level with low distortion even at very high powers. The superior sound quality can be compared with top-of-the-range AB-class analog systems, while DA modules thanks to the use of SMPS and Class D feature very compact size and light weight, efficiency above 90% and negligible heat dissipation.

**The very high efficiency** levels result also in a significant reduction in the energy waste associated with large installations, a noticeable reduction in operating costs and a direct benefit to the environment. Featuring high power levels in a lightweight and compact chassis, the HPD amplifiers are much easier and more economical to transport than conventional models and this, in turn, makes them even more **environmentally friendly**.

HPD amplifiers include an input section with the choice of different filtering options (FLAT / BI-AMP / HPF) and feature an ergonomic and functional design with **removable dust filters**, for an easy maintenance in all conditions of use and therefore extensive durability. The protection system includes thermal protection, short circuit protection, high frequency protection and CLIP LIMITER circuit.





## HPD2004 - HPD4004

- Less than 12kg in 2 rack units for up to 4000W
- DA digitally controlled Class D power modules with SWITCH MODE power supply (SMPS)
- PWM (Pulse Width Modulation) output stages with variable switching frequency for a superior sound definition and very high dynamics at any signal level
- Very efficient Switch Mode Power Supply for a reduced power consumption
- Extensive protection system for maximum reliability
- Built-in 24dB/oct. stereo CROSSOVER filter with BI-AMP and HPF option
- Aluminum front panel with removable dust filters
- Made in Italy

	HPD2004	HPD4004
Power 8 ohm	4x250	4x500
Power 4 ohm	4x500	4x1000
Power BRIDGE 8 ohm	2x1000	2x2000
W RMS, all channel driven, 1KHz THD 1%		
Frequency Response	20 Hz - 20 kHz	
Input Sensitivity	0 dB / 40 x	
Voltage Gain	35 dB / 32 dB	38 dB / 32 dB
Input Impedance	10 kΩ unbalanced - 20 kΩ balanced	
Damping Factor	>500 @ 8 Ω	
S/N Ratio (Unweighted)	>105 dB	
Input Connectors	Combo and XLR M	
Output Connectors	Speakon	
Cooling	variable speed DC fan	
LED Indicators	protect, signal, bridge, limit	
Filtering options	FLAT, HPF (100 Hz selectable High-Pass Filter), BI-AMP (100 Hz 24 dB/octave Crossover Filter)	
Protections	DC, thermal, soft start, short circuit, CLIP limiter	
Power Supply	230 VAC 50 Hz or 120 VAC 60 Hz	
Rated 1/8 power output	800 VA	1350 VA
Max Power Consumption	2450 VA	4900 VA
Dimensions (W x H x D)	483 x 89 x 383	
Weight	11 kg (24.3 lb)	

NONO

NONO



MUSIC

LIFE



# WAVE SERIES

In response to the increasing request for compact, lightweight and easy-to-use portable PA systems, PROEL introduces the **WAVE series**, a new range of active speakers featuring multiple inputs and a versatile MP3 player with **BLUETOOTH** connectivity at an unbeatable price point.

Hosted in lightweight yet ultra-durable polypropylene cabinets, WAVE systems combine **selected HF and LF transducers** with **state of the art electronics**, including a sophisticated pre-amp section with active filtering and dual CLIP LIMITERS and efficient **Class D** power amplifiers for the LF section.

The MEDIA PLAYER you can find on-board is able to play **MP3 files** not only from an **SD** card or a **USB MEMORY STICK**, but also through a **BLUETOOTH** connection. You only need to pair your smartphone or your tablet with a WAVE speaker for playing music without the need of any cable. Thanks to the built-in **2-channel mixer** you can connect a microphone or an additional external source to your PA and mix your sound with independent level controls and a **2-band EQ**. Setting and using a PA system has never been so easy.

The **three models** of the **WAVE** series can be used in a variety of applications, ranging from **speech diffusion** and **music playback** to **live music** and **DJ sets**. The extremely versatile cabinets can be mounted on standard speaker poles, laid on the side for the use as stage monitors and even suspended using the built-in flying points.

All the models are also available in **PASSIVE version** for the use in fixed installations or in systems with existing power amplifiers.





## WAVE10A WAVE10P

- Bi-amplified 2-way system
- 1" compression driver with 1"VC
- 10" woofer with 2" voice coil
- 260 W total peak power
- Passive version available

## WAVE12A WAVE12P

- Bi-amplified 2-way system
- 1" compression driver with 1.35"VC
- 12" woofer with 2" voice coil
- 400 W total peak power
- Passive version available

## WAVE15A WAVE15P

- Bi-amplified 2-way system
- 1" compression driver with 1.35"VC
- 15" woofer with 2.5" voice coil
- 400 W total peak power
- Passive version available

ACTIVE	WAVE10A	WAVE12A	WAVE15A
<b>System type</b>	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure
<b>High Frequency Device</b>	1" compression driver with 1"VC	1" compression driver with 1.35"VC	1" compression driver with 1.35"VC
<b>Low Frequency Device</b>	10" woofer with 1.5" voice coil	12" woofer with 2" voice coil	15" woofer with 2.5" voice coil
<b>Angular Coverage</b>	90° H x 60° V	90° H x 60° V	90° H x 60° V
<b>Total peak power</b>	260 W	400 W	400 W
<b>HF Amplifier Continuous Power</b>	30 W Class AB	50 W Class AB	50 W Class AB
<b>LF Amplifier Continuous Power</b>	100 W Class D	150 W Class D	150 W Class D
<b>Frequency Response</b>	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz
<b>Max SPL</b>	122	123	125
<b>Connectors</b>	MIC/LINE IN: XLR-F + 1/4" JACK, LINE IN: XLR-F + 2xRCA LINE OUT: XLR-M	MIC/LINE IN: XLR-F + 1/4" JACK, LINE IN: XLR-F + 2xRCA LINE OUT: XLR-M	MIC/LINE IN: XLR-F + 1/4" JACK, LINE IN: XLR-F + 2xRCA LINE OUT: XLR-M
<b>Controls</b>	MIC/LINE/LINE/MASTER LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, MEDIA PLAYER LEVEL + NAVIGATION	MIC/LINE/LINE/MASTER LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, MEDIA PLAYER LEVEL + NAVIGATION	MIC/LINE/LINE/MASTER LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, MEDIA PLAYER LEVEL + NAVIGATION
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Weight</b>	14 kg (30.8lb)	17 kg (37.4lb)	21 kg (46.3lb)

PASSIVE	WAVE10P	WAVE12P	WAVE15P
<b>Nominal Impedance</b>	8 Ω	8 Ω	8 Ω
<b>Power Continuous (AES)</b>	150 W	200 W	250 W
<b>Power Program</b>	300 W	400 W	500 W
<b>Power Peak</b>	600 W	800 W	1000 W
<b>Frequency Response</b>	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz
<b>Sensitivity</b>	93 dB @ 1 W/1 m	94 dB @ 1 W/1 m	95 dB @ 1 W/1 m
<b>Connectors</b>	2 x SPEAKON linked	2 x SPEAKON linked	2 x SPEAKON linked
<b>Weight</b>	11 kg (24.2 lb)	14 kg (30.8 lb)	18 kg (36.4 lb)

GENERAL SPECIFICATIONS			
<b>Flying System</b>	2 x M8 - bottom	4 x M10 - top/bottom	4 x M10 - top/bottom
<b>Cabinet Material</b>	Polypropylene	Polypropylene	Polypropylene
<b>Handles</b>	2 x sides	2 x sides	2 x sides
<b>Pole Socket</b>	1 x bottom	1 x bottom	1 x bottom
<b>Dimensions (W x H x D)</b>	320 x 500 x 290 mm	390 x 620 x 350 mm	480 x 740 x 430 mm





# V SERIES PLUS

V PLUS series is the evolution of the acclaimed V series of PROEL powered loudspeakers delivering **absolute value** in terms of **performance, engineering** and design at a more affordable cost.

These **ultra-portable** speakers combine, in carefully engineered and light-weight cabinets, the clearest and most accurate **PROEL sound** with **Class D amplifier technology** and **Switch Mode Power Supply**, offering an unbeatable PA solution at its price point.

All the models feature an extremely efficient amplifier module capable of delivering **600 W or 400W** of robust power to the transducers. Thanks to the use of SMPS technology, this power comes in an **ultra-lightweight package**, making the V PLUS the **most portable PROEL speakers ever**. The power module is hosted in a fully sealed aluminium box, which provides protection, perfect insulation of the cabinet from the outside and extremely efficient cooling.

Thanks to the carefully selected speakers and to the **sophisticated active electronics**, including dual CLIP LIMITERS for an undistorted sound even at the loudest level, the sound of the V PLUS has been precisely tuned in every details, in order to provide **unheard performance in this price range**.

The V PLUS cabinets, expression of the most advanced **Italian design**, include a highly protective steel grille and a super-comfortable luggage-style top handle for an effortless portability. The slanted shape allows the speakers to be laid on their side and used also as stage monitors.

# Loudspeakers V PLUS SERIES



Ultra-lightweight, high-efficiency Class D power amplifiers with SMPS

## V8PLUS

- Bi-amplified 2-way system
- 1" high-definition neodymium compression driver on a wide-dispersion 90° x 60° constant coverage horn
- 8" long-excursion woofer with 1.5" voice coil
- 400 W total peak power amplifier
- SPL MAX 121 dB
- Frequency response 70 Hz - 20 kHz
- 7 kg TOTAL WEIGHT



## V10PLUS

- Bi-amplified 2-way system
- 1" high-definition neodymium compression driver on a wide-dispersion 90° x 60° constant coverage horn
- 10" long-excursion woofer with 2" voice coil
- 600 W total peak power amplifier
- SPL MAX 123 dB
- Frequency response 60 Hz - 20 kHz
- 10 kg TOTAL WEIGHT



Symmetrical 45° wedge angle for stage monitoring



Selectable MIC/LINE input with 2-band EQ

	V8PLUS	V10PLUS
<b>System type</b>	2-way vented enclosure	2-way vented enclosure
<b>High Frequency Device</b>	1" neodymium compression driver	1" neodymium compression driver
<b>Low Frequency Device</b>	8" woofer with 1.5" voice coil	10" woofer with 2" voice coil
<b>Angular Coverage</b>	90° H x 60° V	90° H x 60° V
<b>Total peak power</b>	400 W	600 W
<b>HF Amplifier Continuous Power</b>	50 W Class D	50 W Class AB
<b>LF Amplifier Continuous Power</b>	150 W Class D	250 W Class D
<b>Power Supply</b>	SMPS	SMPS
<b>Processing</b>	Analog	Analog
<b>Frequency Response</b>	70 Hz - 20 kHz	60 Hz - 20 kHz
<b>Max SPL</b>	121	123
<b>Connectors</b>	IN: COMBO, LINK: XLR M	IN: COMBO, LINK: XLR M
<b>Controls</b>	LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, GND LIFT, FRONT LED selector	LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, GND LIFT, FRONT LED selector
<b>Stage Monitor Angle</b>	45°	45°
<b>Flying System</b>	4 x M8 - top/bottom	4 x M10 - top/bottom
<b>Cabinet Material</b>	Polypropylene	Polypropylene
<b>Cabinet Colour</b>	Black	Black
<b>Handles</b>	1 x top	1 x top
<b>Pole Socket</b>	1 x bottom	1 x bottom
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Dimensions (W x H x D)</b>	280 x 422 x 252 mm	330 x 512 x 280 mm
<b>Weight</b>	7 kg	10 kg

# V12PLUS

- Bi-amplified 2-way system
- 1" high-definition neodymium compression driver on a wide-dispersion 90° x 60° constant coverage horn
- 12" long-excursion woofer with 2.5" voice coil
- 600 W total peak power amplifier
- SPL MAX 124 dB
- Frequency response 60 Hz - 20 kHz
- 13 kg TOTAL WEIGHT



# V15PLUS

- Bi-amplified 2-way system
- 1" high-definition neodymium compression driver on a wide-dispersion 90° x 60° constant coverage horn
- 15" long-excursion woofer with 2.5" voice coil
- 600 W total peak power amplifier
- SPL MAX 126 dB
- Frequency response 50 Hz - 20 kHz
- 18 kg TOTAL WEIGHT



Ergonomic, ultra-comfortable top handle for an effortless transportation

## OPTIONAL ACCESSORIES

COVERV8  
COVERV10

COVERV12  
COVERV15



Cover for V8PLUS - V10PLUS  
V12PLUS - V15PLUS

KPTV8  
KPTV10

KPTV12  
KPTV15



Brackets for V8PLUS - V10PLUS  
- V12PLUS - V15PLUS

	V12PLUS	V15PLUS
<b>System type</b>	2-way vented enclosure	2-way vented enclosure
<b>High Frequency Device</b>	1" neodymium compression driver	1" neodymium compression driver
<b>Low Frequency Device</b>	12" woofer with 2.5" voice coil	15" woofer with 2.5" VC
<b>Angular Coverage</b>	90° H x 60° V	90° H x 60° V
<b>Total peak power</b>	600 W	600 W
<b>HF Amplifier Continuous Power</b>	50 W Class AB	50 W Class AB
<b>LF Amplifier Continuous Power</b>	250 W Class D	250 W Class D
<b>Power Supply</b>	SMPS	SMPS
<b>Processing</b>	Analog	Analog
<b>Frequency Response</b>	50 Hz - 20 kHz	45 Hz - 20 kHz
<b>Max SPL</b>	124	126
<b>Connectors</b>	IN: COMBO, LINK: XLR M	IN: COMBO, LINK: XLR M
<b>Controls</b>	LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, GND LIFT, FRONT LED selector	LEVEL, LINE/MIC selector, LOW EQ, HIGH EQ, GND LIFT, FRONT LED selector
<b>Stage Monitor Angle</b>	44°	44°
<b>Flying System</b>	4 x M10 - top/bottom	4 x M10 - top/bottom
<b>Cabinet Material</b>	Polypropylene	Polypropylene
<b>Cabinet Colour</b>	Black	Black
<b>Handles</b>	1 x top	1 x top, 2 x sides
<b>Pole Socket</b>	1 x bottom	1 x bottom
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Dimensions (W x H x D)</b>	380 x 600 x 328 mm	440 x 712 x 400 mm
<b>Weight</b>	13 kg	18 kg



# FLASH X **SERIES**

With **FLASH X** PROEL introduces the **third generation** of a series of loudspeakers that represented a reference for compact, portable systems for years. The new **FLASH8XD** and **FLASH12XD** continue a long history of high-definition sound, reliability and rugged construction in an affordable package, adding now significant steps forward in **technology** and a brand new **style**, and still offering the **best-in-class performance, features and design**.

FLASH XD are powered by **newly designed amplifier modules** able to provide up to 1000W or 600W of clean and undistorted power. The high-efficiency Class D output stages, combined with light-weight and compact Switch Mode Power Supply, give FLASH XD a massive punch and a consistent reserve of power. The **built-in 2-channel mixer** with independent LINE and MIC inputs can turn any FLASH XD system into an instant PA system.

The use of **carefully selected and customized speakers**, including high-definition compression drivers and long-excursion woofers, provide an accurate acoustic response and an amazing sound pressure level with very low distortion.

FLASH XD are controlled by the powerful PROEL **CORE LT DSP**, featuring high-performance signal processing and high-definition 24bit converters, capable to deliver an outstanding sound definition and a dynamic performance typical of top-end systems. The CORE DSP signal processing includes a sophisticated **Dynamic EQ**, able to shape accurately the system's sound while maintaining a full dynamic range at any level. In addition the CORE LT DSP offers an extensive dynamic protection to the system, for getting always the maximum undistorted output. 5 EQ PRESETS (**MUSIC, LIVE, DJ, SPEECH, MONITOR**) can be easily selected to adapt the speakers to any kind of application.

Common features of FLASH X are compact and lightweight PP cabinets with extended internal ribbing and symmetrical wedge angle, constant wide-coverage (90° x 60°) horns for a uniform and coherent sound dispersion, **newly-designed ergonomic aluminum handles** and built-in flying points for the use in fixed installation.

Both models are also available in the **passive** versions **FLASH8XP** and **FLASH12XP**.



# FLASH8XD FLASH8XP

- Active processed 2-way loudspeaker system
- 1" compression driver with 1"VC
- Wide-coverage 90° x 60° constant directivity horn
- 8" woofer with 1.5"VC
- 600 W peak power
- High-definition CORE DSP with 24bit converters and Dynamic EQ
- 5 DSP PRESETS: MUSIC, LIVE, DJ, MONITOR, SPEECH
- SPL MAX 122 dB
- Frequency response 65 Hz - 20 kHz
- Passive version available



# FLASH12XD FLASH12XP

- Active processed 2-way loudspeaker system
- 1" compression driver with 1.35"VC and titanium diaphragm
- Wide-coverage 90° x 60° constant directivity horn
- 12" woofer with 2.5"VC
- 1000 W peak power
- High-definition CORE DSP with 24bit converters and Dynamic EQ
- 5 DSP PRESETS: MUSIC, LIVE, DJ, MONITOR, SPEECH
- SPL MAX 127 dB
- Frequency response 55 Hz - 20 kHz
- Passive version available



FLASH12XD

CORE PROCESSED



High-definition CORE LT DSP with Dynamic EQ and five selectable PRESETS



Wide-coverage 90° x 60° constant directivity horns for an even sound dispersion in any venue



Ergonomic, ultra-comfortable aluminum handles for an effortless transportation

# Loudspeakers FLASH X SERIES



Compact, lightweight and ultra-durable PP injected cabinet

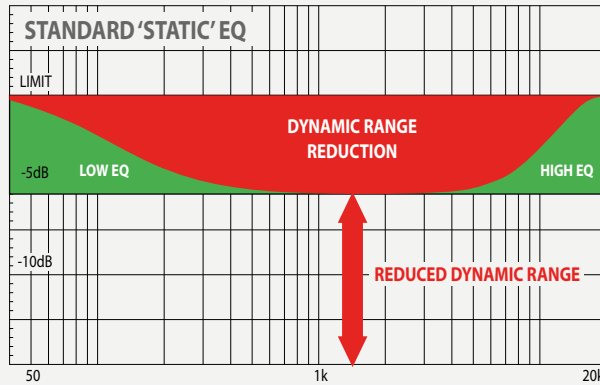


Versatile built-in 2-channel mixer with MIC and LINE inputs

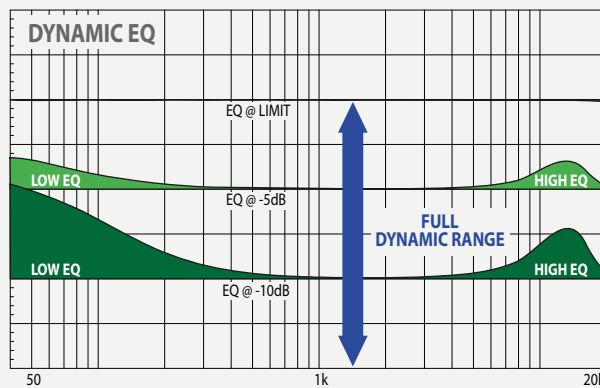


Symmetrical 42° wedge angle for stage monitoring

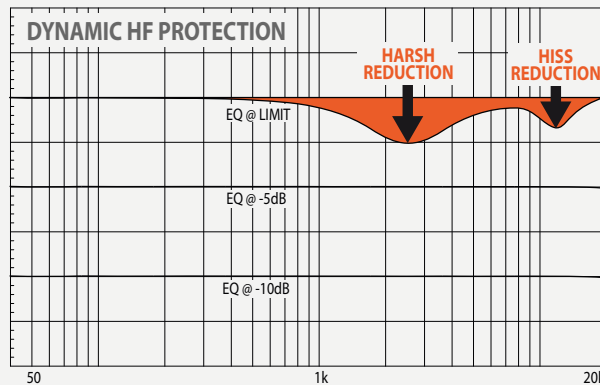
## CORE DSP - DYNAMIC EQ



When the sound is modified using a standard static EQ, the overall dynamic range of the signal can be heavily reduced, because the EQ gain remains the same at any signal level.



A Dynamic EQ is an equalizer that changes 'dynamically' its shape according to the signal level. With a DEQ we can apply a heavy high and low boost to the program, obtaining a louder sound at low and mid levels. When the signal level increases, the equalization is progressively reduced and this allows a full dynamic range to be maintained at any level.



The DEQ can be used with great benefit also when the loudspeaker is pushed to a very high level. With the DEQ we can reduce the gain of selected MID-HI frequencies only when the signal level gets close to the LIMITER'S threshold. This reduces the sound harshness that occurs when the loudspeaker is working at very high levels and it also protects the compression driver against damages due to possible high level HF peaks.





## OPTIONAL ACCESSORIES



**SNWH**  
ABS installation bracket for FLASH5PW (white)



**SNBK**  
ABS installation bracket for FLASH5P (black)

### COVERFL8X COVERFL12X



### KPTFL5 KPTFL5W



Brackets for FLASH5 Black and White

### KPTFL8X - KPTFL8X



Brackets for FLASH8 - FLASH12

### KPTLTP



Bracket for FLASH8XP and FLASH12XP

# FLASH5PV2



- Bi-amplified 2-way system
- Studio-grade dome tweeter on elliptical waveguide
- 5" woofer with PP cone
- 200W total peak power
- SPL MAX 114 dB
- Frequency response 70 Hz - 20 kHz
- Passive version available in BLACK (FLASH5P) and WHITE (FLASH5PW)

ACTIVE	FLASH5AV2	FLASH8XD	FLASH12XD
<b>System type</b>	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure
<b>High Frequency Device</b>	Soft dome tweeter on elliptical waveguide	1" compression driver with 1" voice coil	1" compression driver with 1.35" voice coil and titanium diaphragm
<b>Low Frequency Device</b>	5 woofer with PP cone	8 woofer with 1.5 VC	12 woofer with 2.5VC
<b>Angular Coverage</b>	90° H x 60° V	90° H x 60° V	90° H x 60° V
<b>Total Peak Power</b>	200W	600W	1000W
<b>HF Amplifier Continuous Power</b>	20W Class AB	50W Class D	100W Class AB
<b>LF Amplifier Continuous Power</b>	80W Class D	250W Class D	400W Class D
<b>Power Supply</b>	Linear	SMPS	SMPS
<b>Processing</b>	Analog	CORE LT digital processor	CORE LT digital processor
<b>Frequency Response</b>	70 Hz - 20 kHz	65 Hz - 20 kHz	55 Hz - 20 kHz
<b>Max SPL</b>	114	122	127
<b>Connectors</b>	IN/LINK: XLR F, 1/4 JACK, 2 x RCA	IN: Combo, XLR F MIX OUT: XLR M	IN: Combo, XLR F MIX OUT: XLR M
<b>Controls</b>	LEVEL, NEARFIELD/MIDFIELD, GND LIFT	MIC LEVEL, LINE LEVEL, DSP MODE, GND LIFT	MIC LEVEL, LINE LEVEL, DSP MODE, GND LIFT
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz	100-250 VAC 50/60 Hz	230 VAC or 120 VAC 50/60 Hz
<b>Weight</b>	3.6 kg (7.9 lb)	9.0 kg (19.8 lb)	19.0 kg (41.8 lb)

PASSIVE	FLASH5PV2	FLASH8XP	FLASH12XP
<b>Nominal Impedance</b>	16 Ω	8 Ω	8 Ω
<b>Power Continuous (AES)</b>	80W	150W	300W
<b>Power Program</b>		300W	500W
<b>Power Peak</b>	160W	600W	1000W
<b>Frequency Response</b>	80 Hz - 20 kHz	70 Hz - 20 kHz	60 Hz - 20 kHz
<b>Sensitivity</b>	91 dB @ 1W/1 m	96 dB @ 1W/1 m	99 dB @ 1W/1 m
<b>Crossover Frequency</b>	3000 Hz	3000 Hz	2000 Hz
<b>Connectors</b>	Push terminals	2 x SPEAKON linked	2 x SPEAKON linked
<b>Weight</b>	2.5 kg (5.5 lb)	8.5 kg (18.7 lb)	18.5 kg (40.7 lb)

#### GENERAL SPECIFICATIONS

<b>Floor Monitor Angle</b>	42°	42°	42°
<b>Flying System</b>	3 x M6 - top/bottom	4 x M8 - top/bottom	4 x M10 - top/bottom
<b>Cabinet Material</b>	Polypropylene	Polypropylene	Polypropylene
<b>Handles</b>	1 x top	1 x top aluminum	2 x sides, 1 x top aluminum
<b>Pole Socket</b>	-	1 x bottom	1 x bottom
<b>Dimensions (W x H x D)</b>	175 x 265 x 176.5 mm	270 x 422 x 250 mm	390 x 623 x 350 mm



**PROEL**

# LITE SERIES

The LITE Series by PROEL is an extended range of active and passive speaker systems with plywood cabinet offering the renowned **PROEL sound** and a **high-level performance** in a reliable and affordable package.

For the construction of the cabinets we have used **plywood**, a very lightweight and durable material that makes moving and installing these speakers very quick and easy. Strong, anti-scratch paint and steel grilles with an internal foam layer provide proper **protection** for years of service. The **dual-angle pole holder** featured in 8", 10", 12" and 15" models offers the possibility to obtain a more uniform coverage of the audience.

For the high frequency reproduction of LITE Series we have designed **wide-dispersion horns**, able to provide constant coverage for large audiences and detailed response with low distortion. The **high-excursion woofers**, together with carefully tuned vented cabinets, offers an extended response with deep and tight basses.

The LITE Series includes **6 active models** ranging from 6.5" to dual 15" woofers, plus 1 satellites + subwoofer system. The extremely lightweight power modules used in the active models feature the **latest technologies for amplification**, such as Switch Mode Power Supply and CLASS D output stages, which provides a massive amount of power with a reduced weight. The power modules are hosted in fully-sealed die-cast aluminum boxes that provides protection, perfect insulation of the cabinet from the outside and extremely efficient cooling. Each module includes a **sophisticated pre-amp section** with up to 24 dB/oct. phase aligned crossover filters and active EQ filters for the system's fine tuning. The **DUAL LIMITER circuit** ensures an undistorted sound even at the loudest level and a total loudspeaker protection.

**4 passive models** are also available, featuring carefully designed crossover filters with HF electronic protection. The choice of black or white cabinet, built-in flying points and a wide range of **accessories** make them suitable for any kind of fixed installation.

# Loudspeakers **LITE** SERIES



Versatile and unobtrusive KPTLTP wall bracket for the passive models



Ergonomic handles for an effortless transportation and dual-angle pole sockets



Wide dispersion controlled directivity horns with HF selected transducers for a high sound definition

## **LT6A / LT6P**



- Active 2-way loudspeaker systems
- 1" neodymium tweeter
- 6.5" woofer with 1"VC
- 150 W peak power
- SPL MAX 110 dB
- Frequency response 75 Hz - 20 kHz
- LT6P: passive version available in BLACK and WHITE



## **LT8A / LT8P**



- Active 2-way loudspeaker systems
- 1" compression driver with 1" VC on a constant coverage 60° x 40° horn
- 8" woofer with 1.5"VC
- 400 W peak power
- SPL MAX 121 dB
- Frequency response 70 Hz - 20 kHz
- LT8P: passive version available in BLACK and WHITE



## **LT10A / LT10P**



- Active 2-way loudspeaker systems
- 1" compression driver with 1" VC on a constant coverage 90° x 60° horn
- 10" woofer with 2"VC
- 600 W peak power
- SPL MAX 123 dB
- Frequency response 60 Hz - 20 kHz
- LT10P: passive version available in BLACK and WHITE



## LT12A / LT12P



- Active 2-way loudspeaker systems
- 1" compression driver with 1.35" VC on a constant coverage 90° x 60° horn
- 12" woofer with 2.5" VC
- 600 W peak power
- SPL MAX 124 dB
- Frequency response 50 Hz - 20 kHz
- LT12P: passive version available in BLACK and WHITE



M8 / M10 flying points for the use of a complete range of dedicated accessories for installation

## LT15A

- Active 2-way loudspeaker systems
- 1" compression driver with 1.35" VC on a constant coverage 90° x 60° horn
- 15" woofer with 2.5" VC
- 600 W peak power
- SPL MAX 126 dB
- Frequency response 45 Hz - 20 kHz



Ultra-lightweight, high-efficiency Class D power amplifiers with SMPS

## LT215A

- Active 3-way loudspeaker systems
- 1" compression driver with 1.35" VC on a constant coverage 90° x 60° horn
- 2x15" woofer with 2.5" VC
- 1200 W peak power
- SPL MAX 132 dB
- Frequency response 40 Hz - 20 kHz



The biggest model LT215A features 2 corner-wheels and 3 large metal handles for effortless transportation

# Loudspeakers **LITE** SERIES



Easy and effortless transportation of the whole system



3-channel CLASS D+AB lightweight and powerful amplifier module

## OPTIONAL ACCESSORIES



**COVERLT812A**



## LT812A

- 3-way SAT + SUB active loudspeaker system
- SAT: 1" compression driver + 8" woofer with 1.5" VC
- SUB: 12" woofer with 3" VC
- 1600W peak power
- SPL MAX 121dB + 124dB
- Frequency response 45 Hz - 20 kHz
- Two SPEAKON power cables included



	LT812SAT	LT812SUB
<b>System type</b>	2-way vented enclosure	Vented sub-woofer
<b>High Frequency Device</b>	1" compression driver with 1" VC	-
<b>Low Frequency Device</b>	8" woofer with 1.5" VC	12" woofer with 3" voice coil
<b>Angular Coverage</b>	60° H x 40° V	-
<b>Max SPL</b>	121	124
<b>System Frequency Response</b>	45 Hz - 20 kHz	
<b>Amplifier Total Peak Power</b>	1600 W	
<b>Amplifier Continuous Power</b>	SAT: 2 x 200 W Class AB - SUB: 400 W Class D	
<b>Power Supply</b>	SMPS	
<b>Processing</b>	Analog	
<b>Controls</b>	SUB LEVEL, GND LIFT	
<b>Connectors</b>	1 x SPEAKON	IN: 2 x COMBO, LINK: 2 x XLR M OUT: 2 x SPEAKON
<b>Cabinet construction</b>	Plywood with anti-scratch paint	
<b>Cabinet Colour</b>	Black	Black
<b>Handles</b>	1 x rear	2 x sides
<b>Mounting Pole</b>	1 x bottom, dual angle	1 x top
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector	
<b>Dimensions (W x H x D)</b>	220 x 442 x 260 mm	475 x 462 x 610 mm
<b>Weight</b>	7.5 kg / 16.5 lbs.	34 kg / 74.9 lbs.



## OPTIONAL ACCESSORIES

ACTIVE	LT6A	LT8A	LT10A	LT12A	LT15A	LT215A
<b>System type</b>	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	3-way vented enclosure
<b>High Frequency Device</b>	1" neodymium tweeter	1" compression driver with 1" VC	1" compression driver with 1" VC	1" compression driver with 1.35" VC	1" compression driver with 1.35" VC	1" compression driver with 1.35" VC
<b>Low Frequency Device</b>	6.5" woofer with 1" VC	8" woofer with 1.5" VC	10" woofer with 2" voice coil	12" woofer with 2.5" voice coil	15" woofer with 2.5" VC	2x15" woofer with 2.5" VC
<b>Angular Coverage</b>	60° H x 40° V	60° H x 40° V	90° H x 60° V	90° H x 60° V	90° H x 60° V	90° H x 60° V
<b>Total Peak Power</b>	150 W	400 W	600 W	600 W	600 W	1200 W
<b>HF Amplifier Continuous Power</b>	75 W	50 W Class AB	50 W Class AB	50 W Class AB	50 W Class AB	100 W Class AB
<b>LF Amplifier Continuous Power</b>		150 W Class D	250 W Class D	250 W Class D	250 W Class D	500 W Class D
<b>Power Supply</b>	LINEAR	SMPS	SMPS	SMPS	SMPS	SMPS
<b>Processing</b>	Analog	Analog	Analog	Analog	Analog	Analog
<b>Frequency Response</b>	75 Hz - 20 kHz	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz	40 Hz - 20 kHz
<b>Max SPL</b>	110 dB	121	123	124	126	132
<b>Connectors</b>	IN: COMBO, 2xRCA LINK: XLR M	IN: COMBO, LINK: XLR M	IN: COMBO, LINK: XLR M	IN: COMBO, LINK: XLR M	IN: COMBO, LINK: XLR M	IN: COMBO, LINK: XLR M
<b>Controls</b>	LEVEL, LINE/MIC selector	LEVEL, LINE/MIC selector LOW EQ, HIGH EQ, GND LIFT FRONT LED selector	LEVEL, LINE/MIC selector LOW EQ, HIGH EQ, GND LIFT FRONT LED selector	LEVEL, LINE/MIC selector LOW EQ, HIGH EQ, GND LIFT FRONT LED selector	LEVEL, LINE/MIC selector LOW EQ, HIGH EQ, GND LIFT FRONT LED selector	LEVEL, LINE/MIC selector LOW EQ, HIGH EQ, GND LIFT FRONT LED selector
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 or 120 VAC 50/60 Hz with LINE VOLTAGE selector	230 or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Weight</b>	5.9 kg / 13 lbs	8.5 kg / 18.7 lbs.	12.5 kg / 27.6 lbs.	16.5 kg / 36.4 lbs.	21 kg / 46.3 lbs.	34 kg / 74.9 lbs.

PASSIVE	LT6P	LT8P	LT10P	LT12P
<b>Nominal Impedance</b>	8 ohm	8 ohm	8 ohm	8 ohm
<b>Power Continuous (AES)</b>	75 W	150 W	200 W	300 W
<b>Power Program</b>	150 W	300 W	400 W	600 W
<b>Power Peak</b>	300 W	600 W	800 W	1200 W
<b>Frequency Response</b>	75 Hz - 20 kHz	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz
<b>SPL (1w / 1m)</b>	88 dB	92 dB	94 dB	96 Db
<b>Crossover Frequency</b>	3000 Hz	3000 Hz	2000 Hz	2000 Hz
<b>Connectors</b>	2 x SPEAKON, 2 x JACK	2 x SPEAKON	2 x SPEAKON	2 x SPEAKON
<b>Weight</b>	4.9 kg / 10.8 lbs.	7.5 kg / 16.5 lbs.	11.5 kg / 25.4 lbs.	15.5 kg / 34.2 lbs.

### GENERAL SPECIFICATIONS

<b>Flying System</b>	1 x M4 top / 2 x M4 bottom 2 x M5 rear (only passive)	4 x M10 top/bottom 3 x M5 rear (only passive)	4 x M10 top/bottom 3 x M5 rear (only passive)	4 x M10 top/bottom 3 x M5 rear (only passive)	4 x M10 - top/bottom	4 x M10 - top/bottom
<b>Cabinet Material</b>	Plywood with anti-scratch paint	Plywood with anti-scratch paint	Plywood with anti-scratch paint	Plywood with anti-scratch paint	Plywood with anti-scratch paint	Plywood with anti-scratch paint
<b>Cabinet Colour</b>	Black (active) Black or White (passive)	Black (active) Black or White (passive)	Black (active) Black or White (passive)	Black (active) Black or White (passive)	Black	Black
<b>Handles</b>		1 x rear	1 x rear	2 x sides	2 x sides	1 x top, 2 x sides
<b>Pole Socket</b>		1 x bottom, dual angle	1 x bottom, dual angle	1 x bottom, dual angle	1 x bottom, dual angle	1 x bottom
<b>Dimensions (W x H x D)</b>	204 x 295 x 223 mm	220 x 442 x 260 mm	340 x 515 x 310 mm	380 x 595 x 360 mm	448 x 670 x 410 mm	448 x 1060 x 450 mm

### KPTLT P



Brackets for LT PASSIVE



### KPTLT6 - KPTLT8



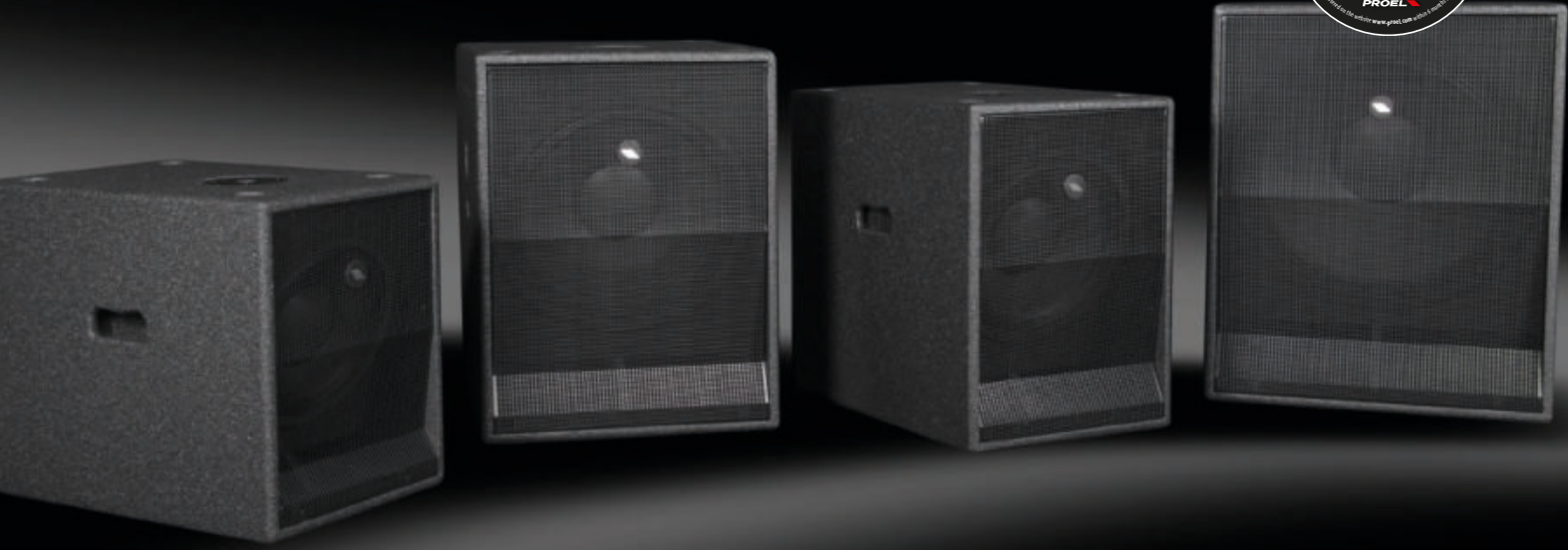
Brackets for LT6 - LT8



### KPTLT10 - KPTLT12



Brackets for LT10 - LT12



# S SERIES

PROEL introduces the **S Series**, a new range of compact and powerful sub-woofers designed to complement PROEL full-range passive or active speakers. The **variety of size, power and SPL** offered by the four S models provides, at an unbeatable price point, the perfect low extension solution for any speaker model available in the PROEL range.

All the S models feature high-excursion woofers in a **Hybrid Band Pass configuration (HBP)**. This innovative design provides a higher efficiency compared to direct radiation sub-woofers and, in addition, guarantees a much better coupling of the tuning ducts with the external air, reducing the distortion and the air turbulence, for a **more defined sound and deep and punchy lows**.

The new **CLASS D** amplifier modules with SMPS (Switch Mode Power Supply) can generate a massive amount of continuous power in a compact, lightweight and reliable package. All the modules include a **STEREO pre-amp section**, 24dB/oct. crossover filters with selectable frequency and PHASE reverse switch.

The cabinets are built with 15/18mm plywood and finished with **extra-durable polyurethane paint**. They feature two flush handles and four sturdy 75mm wheels for an easy transport (S15 and S18 only).



## S18A

- Compact active HBP sub-woofer
- 18" woofer with 3"VC for a deep and extended response
- 1200W peak power
- STEREO input, link and output
- SPL MAX 131 dB
- Frequency response 36 Hz - 140 Hz
- Passive version available (S18P)



## S15A

- Compact active HBP sub-woofer
- 15" woofer with 2.5"VC for a deep and extended response
- 1200 W peak power
- STEREO input, link and output
- SPL MAX 129 dB
- Frequency response 40 Hz - 160 Hz
- Passive version available (S15P)



Lightweight and rugged plywood cabinets with extra-durable polyurethane paint



STEREO preamp section with selectable frequency 24dB/oct. crossover filters



High-excursion woofers in Hybrid Band Pass (HBP) configuration

# Loudspeakers S SERIES



High-efficiency, lightweight and reliable CLASS D amplifier modules with SMPS



Compact cabinet profile that fits perfectly on any stage and in any fixed installation



## S12A

- Compact active HBP sub-woofer
- 12" woofer with 2.5"VC for a deep and extended response
- 1200 W peak power
- STEREO input, link and output
- SPL MAX 128 dB
- Frequency response 43 Hz - 160 Hz



## S10A

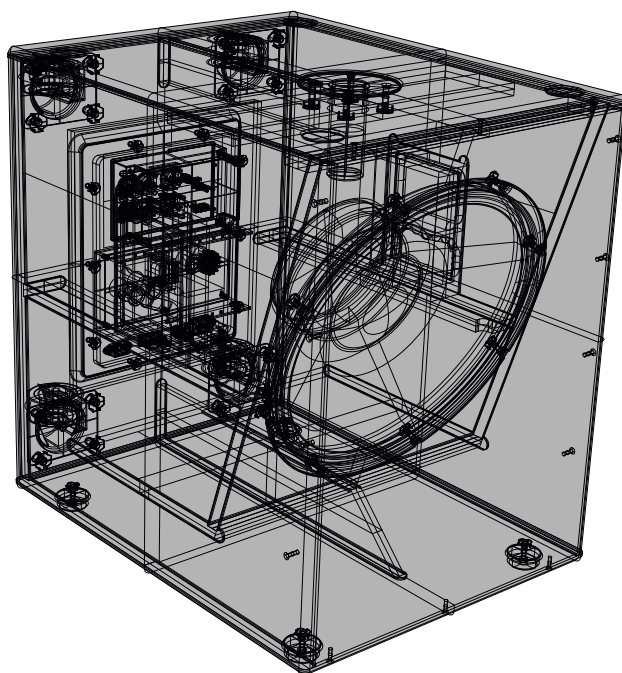
- Compact active HBP sub-woofer
- 10" woofer with 2"VC for a deep and extended response
- 700 W peak power
- STEREO input, link and output
- SPL MAX 119 dB
- Frequency response 46 Hz - 160 Hz
- Passive version available (S10P)

ACTIVE	S10A	S12A	S15A	S18A
<b>System type</b>	Hybrid Band Pass subwoofer	Hybrid Band Pass subwoofer	Hybrid Band Pass subwoofer	Hybrid Band Pass subwoofer
<b>Loudspeaker</b>	10" woofer with 2" VC	12" woofer with 2.5" VC	15" woofer with 2.5" VC	18" woofer with 3" VC
<b>Amplifier Continuous Power</b>	350 W	600 W	600 W	600 W
<b>Frequency Response</b>	46 Hz - 160 Hz	43 Hz - 160 Hz	40 Hz - 160 Hz	36 Hz - 140 Hz
<b>Max SPL</b>	119 dB	127dB	129dB	131 dB
<b>Connectors</b>	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-MIN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-MIN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-MIN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-MIN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M
<b>Controls</b>	Volume, GND lift X-over Frequency, PhaseVolume, GND lift X-over Frequency, Phase	Volume, GND lift X-over Frequency, PhaseVolume, GND lift X-over Frequency, Phase	Volume, GND lift X-over Frequency, PhaseVolume, GND lift X-over Frequency, Phase	Volume, GND lift X-over Frequency, PhaseVolume, GND lift X-over Frequency, Phase
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz	230 VAC or 120 VAC 50/60 Hz	230 VAC or 120 VAC 50/60 Hz	230 VAC or 120 VAC 50/60 Hz
<b>Weight</b>	14 kg (30.8lb)	19 kg (41.9 lb)	26 kg (57.3 lb)	34.5 kg (76 lb)

PASSIVE	S10P	S15P	S18P
<b>Nominal Impedance</b>	8 Ω	8 Ω	8 Ω
<b>Power Continuous (AES)</b>	200 W	400 W	500 W
<b>Power Program</b>	400 W	800 W	1000 W
<b>Power Peak</b>	800 W	1600 W	2000 W
<b>Frequency Response</b>	46 Hz - 160 Hz	40 Hz - 160 Hz	36 Hz - 160 Hz
<b>Sensitivity</b>	95 dB @ 1 W/1 m	97 dB @ 1 W/1 m	98 dB @ 1 W/1 m
<b>Connectors</b>	2 x NEUTRIK SPEAKON (IN/LINK)	2 x NEUTRIK SPEAKON (IN/LINK)	2 x NEUTRIK SPEAKON (IN/LINK)
<b>Weight</b>	12.5 kg (27.5 lb)	24.5 kg (54 lb)	33 kg (72.7 lb)

#### GENERAL SPECIFICATIONS

	S10A	S12A	S15A	S18A
<b>Cabinet</b>	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 handles 1 x pole socket 4 x 75 mm wheels
<b>Dimensions (W x H x D)</b>	315x420x495 mm	360x500x520 mm	435x570x560 mm	508x630x645 mm



## OPTIONAL ACCESSORIES



COVERS10



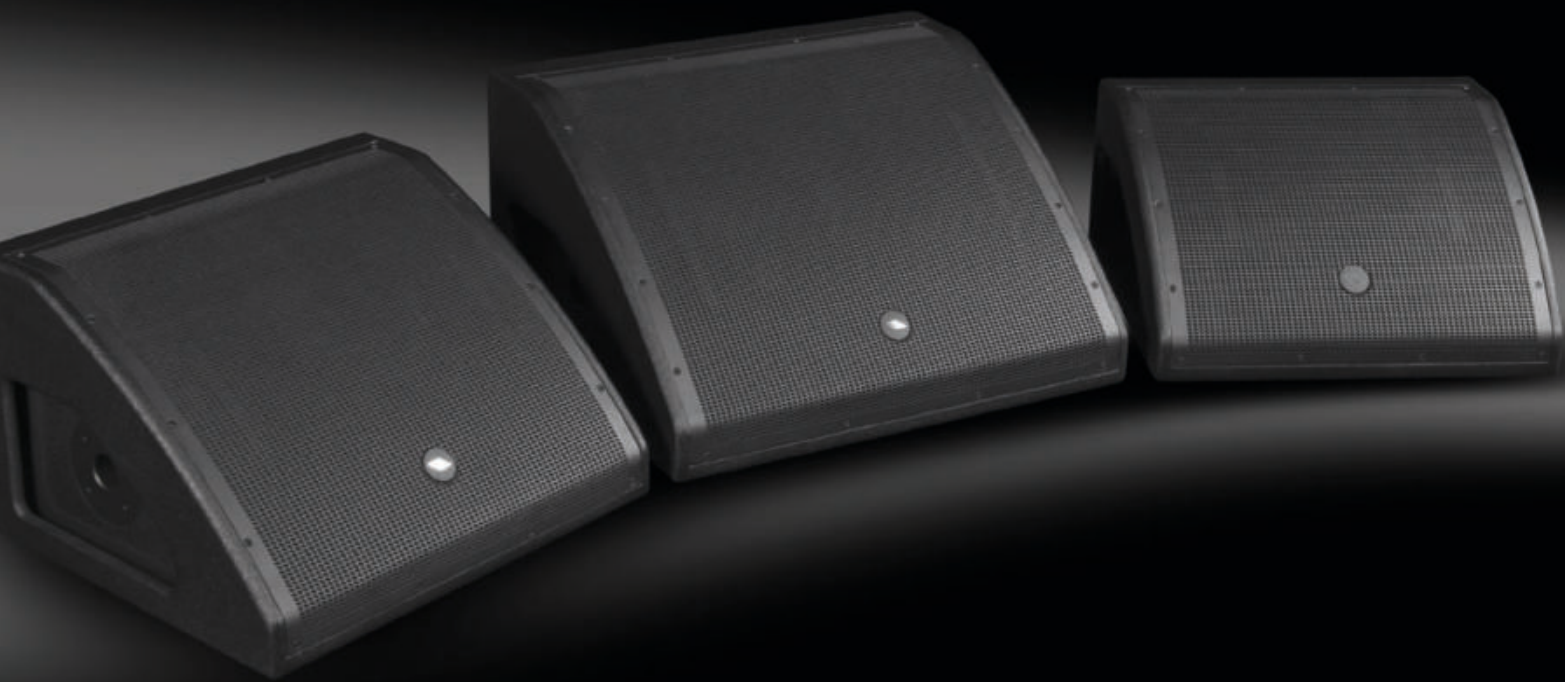
COVERS12



COVERS15



COVERS18



# WD SERIES V2

In the past few years with the **WEDGE Series** PROEL has set a standard for **affordable and road-proof stage monitors**, able to offer a highly valuable monitoring solution, with **perfect sound intelligibility and high SPL** in low-profile and portable enclosures. The **Version 2** of this very successful series represents a major step forward, with several design's refinements and feature's improvements.

The lightweight **CLASS D amplifier modules with SMPS** have been completely **re-designed**, to provide the utmost reliability even when the system is stressed at the highest sound pressure levels. Coupled to a **sophisticated analog processing**, they provide an extremely detailed response, particularly in the vocal range, and a remarkable resistance to feedback. Two tailored EQ PRESETS are available for the use of the speaker not only for stage monitoring (**MONITOR**), but also as a MAIN SOUND SYSTEM (**FOH**).

The stylish design of the cabinets, with integrated handles, recessed connection panel and pole socket, has been optimized **reducing further the profile** and, therefore, the footprint on the stage. Knowing very well the mistreatments the stage monitors are usually subjected to, we have greatly improved the strength of the cabinets' **polyurethane painting**, making them resistant to any abuse.

Also the **custom designed coaxial transducers**, able to provide a perfect HF and LF alignment and a controlled directivity for a perfect listening from any position, have been updated, especially the 10" that features now a compression driver with increased efficiency.

The V2 WEDGE monitors are available in three models, offering the perfect solution for any monitoring situations. The ultra-compact **WD10AV2** is able to offer a high-performance monitoring also on small stages and it's the ideal solution for speech, vocals and keyboards. **WD12AV2**, with its high SPL and its full-range response, is the favorite choice for vocals, guitar, horns and electronic instruments or as a high-power monitor for DJs. **WD15AV2**, with its full extension and powerful and deep response at the low frequencies, is the ideal monitor for bass and drums players. The horn-loaded HF section and the powerful amplifier make it the perfect solution for monitoring also on very large stages.



## WD10AV2

- Active 2-way coaxial stage monitor
- 1" compression driver with 1"VC
- 10" woofer with 2"VC
- 500 W total peak power
- SPL MAX: 123dB
- Frequency response: 60 Hz - 20 kHz



## WD12AV2

- Active 2-way coaxial stage monitor
- 1" compression driver with 1.35"VC
- 12" woofer with 2.5"VC
- 700 W total peak power
- SPL MAX: 124dB
- Frequency response: 50 Hz - 20 kHz



## WD15AV2

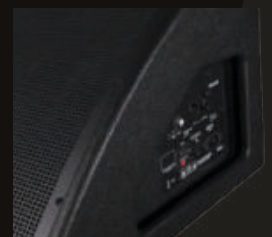
- Active 2-way coaxial stage monitor
- 1" compression driver with 1.35" VC on a waveguide
- 15" woofer with 3"VC
- 900 W total peak power
- SPL MAX: 126dB
- Frequency response: 45 Hz - 20 kHz



Coaxial speakers for a superior sound definition and an even directivity



New-design CLASS D power amplifiers for improved performance and reliability



New ultra-strong polyurethanic finishing for maximum strength and durability

	WD10A	WD12A	WD15A
<b>System type</b>	2-way coaxial vented enclosure	2-way coaxial vented enclosure	2-way coaxial vented enclosure
<b>High Frequency Device</b>	1" compression driver with 1"VC	1" compression driver with 1"VC	1" compression driver with 1.35"VC
<b>Low Frequency Device</b>	10" woofer with 2"VC	12" woofer with 2.5"VC	15" woofer with 3"VC
<b>Angular Coverage</b>	80° H x 80° V	80° H x 80° V	60° H x 60° V
<b>Total Peak Power</b>	500 W	700 W	900 W
<b>HF Amplifier Continuous Power</b>	50 W Class AB	50 W Class AB	50 W Class AB
<b>LF Amplifier Continuous Power</b>	200 W Class D	300 W Class D	400 W Class D
<b>Power Supply</b>	SMPS	SMPS	SMPS
<b>Processing</b>	Analog	Analog	Analog
<b>Frequency Response</b>	60 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz
<b>Max SPL</b>	123 dB	124 dB	126 dB
<b>Connectors</b>	IN: Combo LINK: XLR M	IN: Combo LINK: XLR M	IN: Combo LINK: XLR M
<b>Controls</b>	LEVEL, PRESET selector (MONITOR, FOH), GND lift	LEVEL, PRESET selector (MONITOR, FOH), GND lift	LEVEL, PRESET selector (MONITOR, FOH), GND lift
<b>Power Supply</b>	230 VAC or 120 VAC 50/60 Hz	230 VAC or 120 VAC 50/60 Hz	230 VAC or 120 VAC 50/60 Hz
<b>Stage Monitor Angle</b>	36°	36°	36°
<b>Cabinet</b>	Plywood with black anti-scratch polyurethane paint	Plywood with black anti-scratch polyurethane paint	Plywood with black anti-scratch polyurethane paint
<b>Pole Socket</b>	1 x side	1 x side	1 x side
<b>Handles</b>	2 x side	2 x side	2 x side
<b>Dimensions (W x H x D)</b>	490x265x375 mm	510x310x440 mm	600x335x490 mm
<b>Weight</b>	12 kg (26.4 lb)	15 kg (33 lb)	21 kg (46.3 lb)

## OPTIONAL ACCESSORIES



### CPWD10V2 - CPWD12V2 CPWD15V2

Wedge series flight case (for 2 unit)

### COVERWD10V2 COVERWD12V2 COVERWD15V2

Wedge series padded covers

WE CAN  
JUST FO



BE HEROES  
OR ONE DAY



# SESSION4

**SESSION4** is a **compact portable array system in an active 2.1 configuration**, including two tops and one subwoofer. Designed for solo performers, small live groups, mobile DJ setups or for music and voice playback in corporate and even home applications, the SESSION4 combines **flexibility, portability** and **performance** with a professional design and a sturdy plywood construction.

Each top includes **four 2.75" neodymium drivers in vertical array configuration**, featuring a **logarithmic arrangement** and a **progressive down tilt**, for increasing the vertical coverage and providing an accurate sound in any part of the listening area. The sub features **two 6.5" woofers in band-pass configuration**, able to provide **very 'punchy' and dynamic basses**, together with an extended low frequency response.

The system is powered by a **3-channel 1200W Class D amplifier** and it's controlled by the **powerful PROEL CORE LT DSP**, able to deliver an outstanding sound definition. The signal processing includes a sophisticated Dynamic EQ and **4 EQ PRESETS (MUSIC, LIVE, DJ, SPEECH)** to adapt the speakers to any kind of application. The **intuitive control interface** features a single knob and a large LCD display, for controlling not only the DSP parameters but also the two MIC/LINE selectable inputs, the system's configuration and the built-in **BLUETOOTH** audio interface.

The SESSION4 key features are extreme flexibility and portability, which make it one of the most advanced mobile column systems available. Thanks to a **fast linking system with integrated connections**, the two tops can be combined together, forming a longer 8-driver column and allowing the system to be used not only in **STEREO** mode, but also in **MONO** or **DOUBLE** mode. Two **dedicated compartments** in the sub's cabinet allow the tops to be stored and transported in the unit itself, reducing the space requirement for a better mobility in line with the needs of today's musicians.



# SESSION4

- 2.1 processed active system with two TOPS and one SUBWOOFER

## TOP

- Four 2.75" neodymium full-range speakers in Vertical Array configuration
- Logarithmic arrangement of the speakers with progressive down tilt for an increased vertical coverage
- Fast-coupling of the two tops with integrated power signal link to obtain a single 8-speaker column

## SUB

- Two high-excursion 6.5" woofers in BAND PASS configuration
- Two built-in compartments for hosting the tops, for an easy transport of the whole system

## SYSTEM

- Plywood cabinet with black ultra-durable polyurethane paint
- 3-channel Class D SMPS power amplifier, 1200W total peak power
- Two MIC/LINE (XLR-F) inputs
- Control & connection panel on the cabinet's top for an easy access
- High-definition CORE LT DSP with A/D and D/A 24 bit converters and Dynamic EQ
- User-friendly control interface with single knob and large LCD
- 4 DSP presets (MUSIC, LIVE, DJ, SPEECH)
- 3 selectable system's configurations: STEREO, MONO and DOUBLE
- Bluetooth stereo interface
- SPL MAX (system): 122 dB peak
- Frequency response: 45 Hz - 18 kHz



Fast-coupling system with integrated power signal link



Logarithmic speaker arrangement with progressive tilt for increased vertical coverage

## SYSTEM

<b>System Type</b>	Portable Powered 2.1 System with Two Line Array Tops and One Subwoofer
<b>Maximum SPL Output</b>	122 dB peak system output (pink noise)
<b>Frequency Response (-10dB)</b>	45Hz – 18kHz

## SPEAKERS

<b>LF Driver</b>	2 x 6.5" (165mm) woofer in BANDPASS configuration
<b>HF Driver</b>	8 x 2.75" (70mm) neodymium drivers (4 for each TOP)
<b>Coverage Pattern</b>	100° x 50°

## AMPLIFIER

<b>Type</b>	Class D with SMPS
<b>System Power Rating</b>	300 Watts LF, 2x150 Watts HF Continuous, 1200W Peak
<b>Channels</b>	2 MIC/LINE selectable inputs
<b>Connectors</b>	2 x COMBO (INPUTS), 2 x XLR-M (LINK), 2 x SPEAKON (POWER OUTPUTS)
<b>Controls</b>	1 x LCD with Data Encoder
<b>Processing</b>	24bit / 48kHz CORE DSP - 2-band EQ Selectable CONFIGURATION and EQ PRESETS - Digital Limiting
<b>Wireless Audio</b>	Bluetooth built-in receiver

## GENERAL SPECIFICATIONS

<b>Cabinet Material</b>	Plywood
<b>Finishing</b>	High-strength polyurethane black paint
<b>Grille</b>	Powder coated perforated steel
<b>Handles</b>	2 x sides (SUB)
<b>Pole Socket</b>	1 x top M20 (SUB), 1 x bottom 35mm (TOP)
<b>Included Accessories</b>	M20 / 35mm telescopic pole, 4-wire SPEAKON/SPEAKON cable, 2 x SAT cover
<b>AC input</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Dimensions (W x H x D)</b>	TOP: 100x358x100 mm SUB: 420x480x460 mm
<b>Weight</b>	TOP: 1.5 kg (3.3 lbs) SUB: 22 kg (48.5 lbs) SYSTEM: 25 kg (55.1 lbs)



User-friendly control interface with single knob and large LCD



Two built-in spaces for hosting the tops

## INCLUDED ACCESSORIES



## OPTIONAL ACCESSORIES





# SESSION6

**SESSION6**, the top-of-the-range model of the series, is a **compact high-power portable array system in an active 2.1 configuration**, including two tops and one subwoofer. Designed for **indoor and outdoor use** in live concerts, mobile DJ setups and corporate applications, the SESSION6 combines **flexibility, portability** and **performance** with a professional design and a sturdy plywood construction.

Each top includes **six 3.25" neodymium drivers in vertical array configuration** with **progressive down tilt**, for increasing the vertical coverage. A **custom-designed phase plug** provides an ultra-wide 120° horizontal coverage and guarantees perfect voice intelligibility and accurate sound in any part of the listening area. The sub features **two 10" high-excursion woofers with 2.5" voice coil**, able to provide very 'punchy' and dynamic basses, together with an extended low frequency response and an **impressive SPL**.

The system is powered by a **3-channel 2400W Class D amplifier** and it's controlled by the **powerful PROEL CORE LT DSP**, able to deliver an outstanding sound definition. The signal processing includes a sophisticated Dynamic EQ and **4 EQ PRESETS (MUSIC, LIVE, DJ, SPEECH)** to adapt the speakers to any kind of application. The **intuitive control interface** features a single knob and a large LCD display, for controlling not only the DSP parameters but also the two MIC/LINE selectable inputs, the system's configuration and the built-in **BLUETOOTH** audio interface.

Thanks to the innovative **die-cast fast linking system with integrated connections**, the two tops can be combined together, forming a longer 12-driver column and allowing the system to be used not only in **STEREO** mode, but also in **MONO** or **DOUBLE** mode, for an extreme flexibility.

A **dedicated padded bag** is included for storing and transporting the two columns and the provided pole and speaker cable, for the maximum portability.



# SESSION 6

- 2.1 processed active system with two TOPS and one SUBWOOFER

## TOP

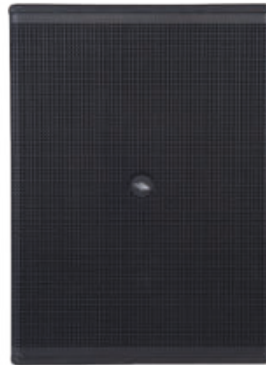
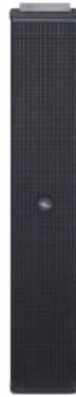
- Six 3.25" neodymium full-range speakers in Vertical Array configuration
- Progressive down tilt for an increased vertical coverage
- Custom designed phase plug for ultra-wide 120° horizontal coverage
- Fast-coupling of the two tops with integrated power signal link to obtain a single 12-speaker column

## SUB

- Two high-excursion 10" woofers with 2.5" voice coil

## SYSTEM

- Plywood cabinet with black ultra-durable polyurethane paint
- 3-channel Class D SMPS power amplifier, 2400W total peak power
- Two MIC/LINE (XLR-F) inputs
- Control & connection panel on the cabinet's top for an easy access
- High-definition CORE LT DSP with A/D and D/A 24 bit converters and Dynamic EQ
- User-friendly control interface with single knob and large LCD
- 4 DSP presets (MUSIC, LIVE, DJ, SPEECH)
- 3 selectable system's configurations: STEREO, MONO and DOUBLE
- Bluetooth stereo interface
- SPL MAX (system): 128 dB peak
- Frequency response: 38 Hz - 20 kHz



Die-cast fast-coupling system with integrated power signal link



Progressive tilt and custom phase plug for increased vertical and horizontal coverage



User-friendly control interface with single knob and large LCD



Padded bag for transporting the tops

## SYSTEM

<b>System Type</b>	Portable Powered 2.1 System with Two Line Array Tops and One Subwoofer
<b>Maximum SPL Output</b>	128 dB peak system output (pink noise)
<b>Frequency Response (-10dB)</b>	38Hz - 20kHz

## SPEAKERS

<b>LF Driver</b>	2 x 10" (254mm) woofer in BANDPASS configuration
<b>HF Driver</b>	12 x 3.25" (89mm) neodymium drivers (6 for each TOP)
<b>Coverage Pattern</b>	120° x 60°

## AMPLIFIER

<b>Type</b>	Class D with SMPS
<b>System Power Rating</b>	600 Watts LF, 2x300 Watts HF Continuous, 2400W Peak
<b>Channels</b>	2 MIC/LINE selectable inputs
<b>Connectors</b>	2 x COMBO (INPUTS), 2 x XLR-M (LINK), 2 x SPEAKON (POWER OUTPUTS)
<b>Controls</b>	1 x LCD with Data Encoder
<b>Processing</b>	24bit / 48kHz CORE DSP - 2-band EQ Selectable CONFIGURATION and EQ PRESETS - Digital Limiting
<b>Wireless Audio</b>	Bluetooth built-in receiver

## GENERAL SPECIFICATIONS

<b>Cabinet Material</b>	Plywood
<b>Finishing</b>	High-strength polyurethane black paint
<b>Grille</b>	Powder coated perforated steel
<b>Handles</b>	2 x sides (SUB)
<b>Pole Socket</b>	1 x top M20 (SUB), 1 x bottom 35mm (TOP)
<b>Included Accessories</b>	M20 / 35mm telescopic pole, 4-wire SPEAKON/SPEAKON cable, PADDED BAG for SAT
<b>AC input</b>	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Dimensions (W x H x D)</b>	TOP: 112x616x132 mm SUB: 420x580x490 mm
<b>Weight</b>	TOP: 4.5 kg (9.9lbs) SUB: 26.5 kg (58.4 lbs)

## INCLUDED ACCESSORIES



## OPTIONAL ACCESSORIES





# FREEPASS

**FREEPASS6** is a **combo sound system** including a speaker, an amplifier and a 5-input mixer in an **ultra-compact and portable package**.

The **2-way speaker system** includes a **1" neodymium tweeter** and a **6.5" woofer**, able to provide an **extended** and detailed frequency response.

The built-in **amplifier** delivers to the speakers **75W of RMS power**. In addition, it can power an external speaker with another 75W thru the **POWER OUT connector**.

The system includes a **high-quality 5-input mixer** featuring 2-band CHANNEL EQ, 3-band MAIN MIX EQ, MONITOR output and a sophisticated **DIGITAL EFFECT** with 16 presets.

**FREEPASS6** is hosted in a compact and rugged MDF cabinet finished with a durable anti-scratch black paint, which provides **maximum portability** and **road-proof operation**. Two M4 threaded inserts on the bottom and on the side of the cabinet allow the **included metal adapter** to be used for installing the system **on a standard speaker stand**, both in vertical and horizontal position.

**FREEPASS6** is a **cost-effective, ultra-compact, all-in-one system** for **mobile musicians, vocal P.A.** and **indoor sporting, religious or business events**. The 5 inputs available in the built-in mixer allows a variety of signals to be connected, while the possibility to double the power **connecting a second speaker** allows the system to be used also in outdoor application where a **higher SPL** is required.

# FREEPASS6

- All-in-one portable sound system
- 2-way speaker system with 1" neodymium tweeter and 6.5" woofer for an accurate sound reproduction
- 150W peak power - 75W RMS built-in amplifier
- 75W RMS power output for an external speaker
- Built-in 5-input mixer with PHANTOM POWER
- 2 MONO MIC/LINE channels + 1 STEREO LINE channel with 2-band EQ
- MONITOR output
- DIGITAL EFFECT PROCESSOR with 16 presets
- MAIN MIX 3-band EQ
- Compact MDF cabinet with durable black anti-scratch painting and metal grille
- 4 x M4 threaded inserts for applying a speaker stand adapter (included)



150W built-in amplifier with power output for an additional speaker



Built-in 5-input mixer with DIGITAL EFFECT PROCESSOR



Speaker stand ADAPTER included

## MIXER SECTION

<b>MONO inputs</b>	(3) MIC/LINE IN (COMBO)
<b>STEREO inputs</b>	(1) STEREO LINE IN (2xRCA)
<b>Input EQ</b>	HIGH: +/- 15dB 10 kHz, LOW: +/- 15dB 100 Hz
<b>PHANTOM power</b>	+ 48 V (CH 1-3)
<b>Internal Effect</b>	ECHO (CH 1-4)
<b>Outputs</b>	16-PRESETS 24bit DIGITAL MULTIEFFECT
<b>Main EQ</b>	MONITOR OUT (1xJACK), REC OUT (2xRCA), SPEAKER OUT (1xJACK)
<b>Metering</b>	3-band EQ (HIGH, MID & LOW)

## AMPLIFIER SECTION

<b>Continuous Power</b>	75 W (1 KHz, 1% THD)
<b>Maximum Power</b>	150 W (1 KHz, 1% THD)
<b>Power Output</b>	75 W @ 8 ohm

## LOUDSPEAKER SECTION

<b>Loudspeaker System</b>	2-way system vented
<b>High Frequency Device</b>	1" neodymium tweeter
<b>Low Frequency Device</b>	6.5" woofer with 1"VC
<b>Angular Coverage</b>	90° H x 60°V
<b>Impedance</b>	4 ohm
<b>Frequency Response</b>	75 Hz - 20 kHz (-6 dB)
<b>SPL 1W 1m</b>	88 dB
<b>Cabinet Material</b>	MDF with black anti-scratch paint, metal grille
<b>Pole Socket</b>	4xM4 threaded inserts (bottom + side) for optional pole adapter

## GENERAL SPECIFICATIONS

<b>Dimensions</b>	20x32x22 cm
<b>Weight</b>	6.2 kg / 13.67 lbs.
<b>Power Supply</b>	230/115 VAC (switchable) 50/60 Hz
<b>Power consumption</b>	180 W



# FREEPASS

**FREEPASS8USB** and **FREEPASS10USB** are **all-in-one sound systems** combining in an **ultra-portable, easy-to-use package** everything musicians and other PA users need for playing: a full-featured **mixer**, a versatile **MP3 player**, a powerful **CLASS D amplifier**, two full-range **speakers** and high-quality connection **cables**.

**FREEPASS8USB** and **FREEPASS10USB** are complete PA systems that, even if compact in size, quick to setup and simple to use, are packed with a **full set of features** and delivers an unexpected **sound quality** for this kind of systems. The **8-channel, 2x250W powered mixer** fits perfectly in one of the two speakers and it can be used as it is or detached with a simple operation. The second speaker includes a convenient and large compartment that can contain all the connection cables and other accessories. Two **high-quality PROEL speaker cables** with ultra-durable 1/4" metal jack connectors are also provided.

The two speakers, hosted in lightweight PP cabinets, feature a **horn-loaded 1.35" VC compression driver** and a **8" or 10" woofer**, able to provide a clean and powerful **full-range sound** with high SPL. A large handle on top of the cabinet and a pole holder on the bottom make transport and installation quick and easy.

Thanks to their versatility and portability, **FREEPASS8USB** and **FREEPASS10USB** can be used in a variety of applications, such as **live gigs** for singers or small bands, **education and sporting events, seminars and presentations**.



# FREEPASS8USB

# FREEPASS10USB

- All-in-one systems with two speakers and detachable power mixer
- 4 MIC/LINE MONO inputs with phantom power
- 2 LINE STEREO inputs
- 2-band channel EQ
- ECHO / DELAY effect
- MUSIC/SPEECH main EQ
- Built-in MP3 player with USB port
- 7-LED VU-METER
- 2-TRACK and MONITOR out
- Dual 250W CLASS D power amplifier with SMPS
- 2-way speakers with 1" horn-loaded compression driver and 8" or 10" woofer
- 2 x 7.5mt. PROEL power cables with metal ¼" JACK
- Convenient accessory compartment



Detachable powered mixer with 8 inputs and 500W amplifier



Convenient compartment for the system's cables and other accessories

	FREEPASS8USB	FREEPASS10USB
<b>MIXER SECTION</b>		
<b>MONO inputs</b>	(4) MIC IN (XLR-F) + LINE IN (JACK)	
<b>STEREO inputs</b>	(2) LINE IN (2xJACK / 2xRCA)	
<b>Input EQ</b>	HIGH: +/-15dB 10 kHz, LOW: +/- 15dB 100 Hz	
<b>PHANTOM power</b>	+ 15V (CH 1-4)	
<b>Internal Effect</b>	ECHO (CH 1-4)	
<b>Outputs</b>	MONITOR OUT (2xJACK), SUB OUT (1xJACK), SPEAKER OUT (2xJACK)	
<b>Main EQ</b>	VOICE / MUSIC selector	
<b>Metering</b>	2x6-LED VU-METER	
<b>MULTIMEDIA SECTION</b>		
<b>Player Type</b>	USB	
<b>Compatible File Formats</b>	MP3	
<b>Control Interface</b>	Control buttons	
<b>AMPLIFIER SECTION</b>		
<b>Amplifier Type</b>	Class D with SMPS (Switch Mode Power Supply)	
<b>Maximum Output Power</b>	2 x 250 W @ 4 ohm (1 KHz, 1% THD)	
<b>Frequency Response</b>	MUSIC: 20 Hz - 20 KHz, VOICE: 80 Hz - 20 KHz	
<b>LOUDSPEAKER SECTION</b>		
<b>Loudspeaker System</b>	2-way system vented	
<b>High Frequency Device</b>	1" compression driver 1.35" VC - horn loaded	
<b>Low Frequency Device</b>	8" woofer with 2" VC	10" woofer with 2" VC
<b>Angular Coverage</b>	90° H x 60° V	
<b>Impedance</b>	4 ohm	
<b>Frequency Response</b>	65 Hz - 20 kHz (-10 dB)	
<b>SPL 1W 1m</b>	95 dB	
<b>Cabinet Material</b>	Black polypropylene, metal grille	
<b>Handles</b>	1 top	
<b>Pole Socket</b>	1 bottom	
<b>GENERAL SPECIFICATIONS</b>		
<b>Dimensions</b>	Speaker: 45x27.5x25 cm / Mixer: 32x18x9 cm	Speaker: 50x32x29 cm / Mixer: 32x18x9 cm
<b>Weight</b>	System: 20 kg / Speaker: 8.6 kg / Mixer: 2.4 kg	System: 25 kg / Speaker: 10.6 kg / Mixer: 2.4 kg
<b>Power Supply</b>	230 VAC / 120 VAC (switchable) 50/60 Hz	
<b>Power consumption</b>	400 W	



# FREEPACK

**FREEPACK65LT** is an **all-in-one, luggage-style sound system** combining in an **ultra-portable, easy-to-use package** everything musicians and other PA users need for playing: a full-featured **mixer with digital effect and MP3 player**, a powerful **CLASS D amplifier**, two full-range **speakers** and high-quality connection **cables**.

**FREEPACK65LT** is a complete PA systems that, even if compact in size, quick to setup and simple to use, is packed with a **full set of features** and deliver an unexpected sound quality for this kind of systems. The **fully featured powered mixer**, including a **MP3 player with BLUETOOTH connection**, is coupled perfectly with the two speakers in a stylish luggage-style package, making transport and installation quick and easy. A convenient and large compartment on the back of the mixer can contain all the connection cables and other accessories. Two **high-quality PROEL speaker cables** with ultra-durable 1/4" metal jack connectors are also provided.

The two speakers, hosted in lightweight PP cabinets, feature selected transducers and carefully designed crossover filters, which can provide a clean and defined sound together with an **extended response and a high sound pressure**.

In addition **FREEPACK65LT** includes in a very compact format **two rechargeable 12V batteries**, able to provide up to 4-5 hours of mains-free continuous operation.

Thanks to its versatility and portability, **FREEPACK65LT** can be used in a variety of applications, such as **live gigs** for singers or small bands, **education and sporting events, seminars and presentations**.



# FREEPACK65LT

- All-in-one luggage-style sound system with two speakers, power mixer and media player
- 2 MIC/LINE MONO inputs
- 2 LINE STEREO inputs
- 2-band channel EQ
- 16-preset DIGITAL MULTIEFFECT
- MP3 player with USB/SD slot, BLUETOOTH and LCD display
- 1x4-LED VU-METER
- AUX and PRE-AMP outputs
- Dual 75W CLASS D power amplifier with SMPS
- 2-way speakers with 2x3" tweeters and 1x6.5" woofer
- 2 x 7.5mt. PROEL power cables with metal 1/4" JACK
- 2x12 rechargeable batteries
- Convenient accessory compartment

## MIXER SECTION

<b>MONO inputs</b>	(2) MIC IN + LINE IN (XLR F + JACK)
<b>STEREO inputs</b>	(2) LINE IN (mini-jack + JACK / 2xRCA)
<b>Input EQ</b>	HIGH: +/-15dB 10 kHz, LOW: +/- 15dB 100 Hz
<b>Internal Effect</b>	16 presets DIGITAL multieffect with 1 parameter
<b>Outputs</b>	PRE-AMP OUT (2xJACK), REC OUT (2xRCA) AUX OUT (JACK) SPEAKER OUT (2xJACK)
<b>Metering</b>	1x4-LED VU-METER

## MULTIMEDIA SECTION

<b>Player Type</b>	USB / SD memory slot
<b>Compatible File Formats</b>	MP3 / WAVE
<b>Control Interface</b>	LCD display

## AMPLIFIER SECTION

<b>Amplifier Type</b>	Class D with SMPS (Switch Mode Power Supply)
<b>Maximum Output Power</b>	2 x 75 W @ 4 ohm (1 KHz, 1% THD)
<b>Frequency Response</b>	20 Hz - 20 KHz

## LOUDSPEAKER SECTION

<b>Loudspeaker System</b>	2-way system vented
<b>High Frequency Device</b>	2 x 3" tweeter
<b>Mid Frequency Device</b>	
<b>Low Frequency Device</b>	1x6.5" woofer with 1.35" VC
<b>Angular Coverage</b>	100° H x 80° V
<b>Impedance</b>	8 ohm
<b>Frequency Response</b>	90 Hz - 20 kHz (-10 dB)
<b>SPL 1W 1m</b>	92 dB
<b>Cabinet Material</b>	Black polypropylene, metal grille
<b>Handles</b>	1 top
<b>Pole Socket</b>	1 bottom

## GENERAL SPECIFICATIONS

<b>Dimensions</b>	System: 56.5x44x19.6 mm Speaker: 20x42x19 mm Mixer: 35.2x44x19.6 mm
<b>Weight</b>	System: 17 kg / Speaker: 6.1 kg / Mixer: 4.8 kg
<b>Recharge Battery</b>	2 x 12V / 2.8A
<b>Battery Recharging Time</b>	7-9 hours
<b>Battery Working Time</b>	4-5 hours
<b>Power Supply</b>	230 VAC / 120 VAC (switchable) 50/60 Hz
<b>Power consumption</b>	300 W



Two 12V batteries providing up to 5 hours of mains-free operation



Powerful and lightweight CLASS D amplifiers with SMPS



Luggage-style design for the maximum portability





# FREE

PROEL FREE systems gives you the freedom to perform your music or play your sound anywhere without worrying about where to plug the power cord, how to connect your MP3 player or how to set your microphone.

**FREE10LT, FREE8LT, FREE6LT** and **FREE5LT** are **battery powered combo sound systems** with a full set of features and the sound you don't expect from this kind of products. They include a versatile **MP3 player with USB port, SD slot and BLUETOOTH connection**, featuring a large LCD and remote control.

FREE10LT, FREE6LT and FREE5LT are hosted in compact and road-proof PP cabinets that provide **maximum portability and protection**, while FREE8LT features a rugged MDF cabinet with black PVC finishing. FREE10LT and FREE8LT include a built-in **retractable handle and roller wheels**, allowing the systems to be taken everywhere. All models are fitted with an adapter for stand.





With a horn-loaded compression driver coupled to a 10" woofer and a 120W power amplifier, **FREE10LT** is an all-in-one multipurpose mobile system for indoor and outdoor applications requiring **high quality sound** and **advanced features**. The **WIRELESS** module included provides a clean and hassle-free wireless connection with the included handheld microphones for the maximum freedom of movement. An additional wireless module, with the choice of handheld (FR10LTKITM) or bodypack transmitter with headset microphone (FR10LTKITH), is available as optional. The two rechargeable 12V batteries provide up to **3-4 hours of mains-free continuous operation**.

With his 2-way configuration featuring a high-efficiency 3" tweeter, **FREE8LT** is the perfect combo system for **mobile musicians**, vocal P.A. and a wide range of indoor or outdoor events. It provides maximum portability, quality sound and good coverage in an extremely **versatile and affordable package**. The rechargeable 12V battery provides up to **2-3 hours of mains-free continuous operation**.

**FREE6LT**, with a powerful 80W amplifier, a 2-way configuration with 6.5" woofer and horn-loaded compression driver and the built-in UHF wireless microphone offers, in an extremely compact package, the **best portability** combined with a surprisingly loud and well-defined sound. With its **two Li-ion 12V rechargeable batteries** it ensures 4.5 hours of mains-free operation.

**FREE5LT**, the smallest model of the series, is hosted in a **ultra-portable cabinet** that allows the systems to be taken virtually everywhere. It is also fitted with a comfortable **handle**, a shoulder **strap** and an **adapter** for standard microphone stand. Equipped with a 5" full band speaker, a 20W power amplifier, a **WIRELESS** microphone and a Li-ion rechargeable battery, FREE5LT is an all-in-one multi-purpose mobile system for indoor and outdoor applications requiring **maximum portability** and versatility.

# Portable Systems **FREE**



Built-in UHF PLL wireless receiver with HANDHELD microphone, channel selection and IR sync



Convenient top compartment for storing microphones and other accessories



4-channel, 60W built-in active mixer powered by Li-ion batteries with up to 5 hours mains-free operation

## **FREE10LT**

- All-in-one battery powered sound system
- License-free UHF PLL wireless module (863-865 MHz) with IR SYNC and handheld microphone
- Built-in MEDIA PLAYER with USB port, SD slot and BLUETOOTH audio connection, LCD display and IR remote control
- 2 MIC/LINE + 1 STEREO LINE inputs, 1 LINE output
- HIGH + LOW EQ controls
- Built-in EFFECT
- 120W built-in amplifier
- 1" horn loaded compression driver and 10" woofer
- 3/4 hours working time
- Compact and light-weight PP cabinet for maximum portability, with two wheels and one retractable handle, adapter for standard speaker stand
- Compartment for two wireless microphones



## **FREE6LT**

- All-in-one battery powered sound system
- License-free UHF wireless module (863-865 MHz) with handheld microphone
- Built-in MEDIA PLAYER with USB port, SD slot and BLUETOOTH audio connection, LCD display and IR remote control
- 2 MIC/LINE + 1 STEREO LINE inputs, 1 LINE output
- TONE control
- 80W built-in amplifier
- 1" horn loaded compression driver and 6.5" woofer
- Li-ion batteries with 4-5 hours working time
- Compact and light-weight PP cabinet for maximum portability, with one handle and adapter for standard speaker stand





## FREE5LT

- All-in-one battery powered sound system
- License-free UHF wireless module (863-865 MHz) with handheld microphone
- Built-in MP3 player with USB port and BLUETOOTH audio connection, LCD display and IR remote control, REC function
- 1 MIC + 1 STEREO LINE inputs, 1 LINE output
- 20W built-in Class D amplifier
- 5" full-range speaker
- Built-in alarm siren
- LED flashlight
- Rechargeable Li-ion battery with 10-16 hours stand-by time
- Compact and light-weight PP cabinet with one handle, shoulder strap and microphone stand adapter
- Padded carrying bag included



## FREE8LT

- All-in-one battery powered sound system
- Built-in MEDIA PLAYER with USB port, SD slot and BLUETOOTH audio connection, LCD display and IR remote control
- 2 MIC/LINE + 1 STEREO LINE inputs
- HIGH + LOW EQ controls
- Built-in EFFECT
- 20W RMS built-in amplifier
- 3" tweeter and 8" woofer
- 3/4 hours working time
- Compact MDF cabinet with durable PVC coating and ABS + STEEL protection corners.
- Adapter for standard speaker stand
- Two wheels, one retractable handle and one fixed handle for maximum portability



Built-it LED flashlight



Compact and light-weight PP cabinet with one handle, shoulder strap and microphone stand adapter



Built-in advanced MEDIA PLAYER with USB port, SD slot and BLUETOOTH audio connection



Trolley-style design with roller wheels and retractable dual-tube handle

# OPTIONAL ACCESSORIES

**FR6LTKITB**



**FR10LTKITH**



**COVERFR6  
COVERFR10**



	FREE10LT	FREE8LT	FREE6LT	FREE5LT
<b>MIXER SECTION</b>				
<b>MONO inputs</b>	2 x MIC/LINE IN (COMBO)	1 x MIC IN (COMBO) + 1 x INST/ MIC IN (JACK)	2 x MIC/LINE IN (COMBO)	1 x MIC IN (JACK)
<b>STEREO inputs</b>	1 x LINE IN (2xRCA + mini-jack)	1 x LINE IN (2xRCA + mini-jack)	1 x LINE IN (2xRCA + mini-jack)	1 x LINE IN (mini JACK)
<b>Internal Effect</b>	ECHO	ECHO		
<b>Outputs</b>	MONO LINE OUT (JACK)		MONO LINE OUT (JACK)	LINE OUT (mini JACK)
<b>Main EQ</b>	2-band EQ (HIGH + LOW)	2-band EQ (HIGH + LOW)	TONE control	

<b>WIRELESS SECTION</b>				
<b>Wireless Receiver</b>	FR2R		FR3R	FR4H
<b>Handheld Transmitter</b>	FR2H		FR3H	FR4B (optional)
<b>Bodypack Transmitter</b>	FR2B (optional)		FR3B (optional)	HS2 (optional)
<b>Headset microphone</b>	HS2 (optional)		HS2 (optional)	FM
<b>Modulation Mode</b>	FM		FM	UHF 863 – 865 MHz
<b>Frequency Range</b>	UHF 863-865MHz		UHF 863-865MHz	60 Hz – 16 KHz
<b>Audio bandwidth</b>	60 Hz - 16 KHz		60 Hz - 16 KHz	> 100 dB
<b>S/N ratio</b>	>100dB		>100dB	< 10 mW
<b>HANDHELD RF output</b>	10mW		10mW	< 10 mW
<b>BODYPACK RF output</b>	10mW		10mW	< 0.1%
<b>THD</b>	<1%		<1%	<1%

<b>MULTIMEDIA SECTION</b>				
<b>Player Type</b>	USB / SD / BLUETOOTH player	USB / SD / BLUETOOTH player	USB / SD / BLUETOOTH player	USB / BLUETOOTH player with REC function
<b>Compatible File Formats</b>	MP3	MP3	MP3	WAV, MP3, WMA
<b>Control Interface</b>	LCD display, REMOTE control	LCD display, REMOTE control	LCD display, REMOTE control	LCD display, REMOTE control
<b>AMPLIFIER Section</b>				
<b>Continuous Power</b>	80W RMS (DC), 120W RMS (AC)	20W RMS	60W RMS (DC), 80W RMS (AC)	10W RMS (DC), 20W RMS (AC)

<b>LOUDSPEAKER SECTION</b>				
<b>Loudspeaker System</b>	2-way system	2-way system	2-way system	Full-range system
<b>High Frequency Device</b>	1" horn loaded compression driver	3" tweeter	1" horn loaded compression driver	5" full-range speaker
<b>Low Frequency Device</b>	10" woofer	8" woofer	6.5" woofer	
<b>Frequency Response</b>	55Hz - 18KHz	65Hz - 15KHz, -3dB	80Hz - 18KHz	120Hz - 18KHz, -3dB
<b>Cabinet Material</b>	Polypropylene cabinet, metal grille, 2 wheels	MDF with black PVC finishing, 2 wheels	Polypropylene cabinet, metal grille	Polypropylene Cabinet, Metal Grille
<b>Handles</b>	1 rear retractable	1 top, 1 rear retractable	1 top	1 top
<b>Pole Socket</b>	1 bottom	1 bottom	1 bottom	1 microphone stand adapter bottom

<b>GENERAL SPECIFICATIONS</b>				
<b>Dimensions</b>	36x56x31 cm	46.5x51x37.5 cm	29.5x47x26 cm	13.5x15x24.5
<b>Weight</b>	19 kg / 41.9 lbs	12 kg / 26.45 lbs	6. kg / 13.20 lbs	1.5 Kg (3.3 lb)
<b>Recharge Battery</b>	2 x 12V / 5A	1 x 12V / 5A	2 x 12V / 1.5A Li-ion	1 x 11.1V / 1.5Ah Li-ion
<b>Battery Recharging Time</b>	10-12 hours	7-10 hours	7-9 hours	2 hours
<b>Battery Working Time</b>	3-4 hours	2-3 hours	4-5 hours	4-5 hours
<b>Power Supply</b>	230/115 VAC (switchable) 50/60 Hz	230/115 VAC (switchable) 50/60 Hz	240-100 VAC 50/60 Hz	AC 90-264V ~ 50/60Hz adapter



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