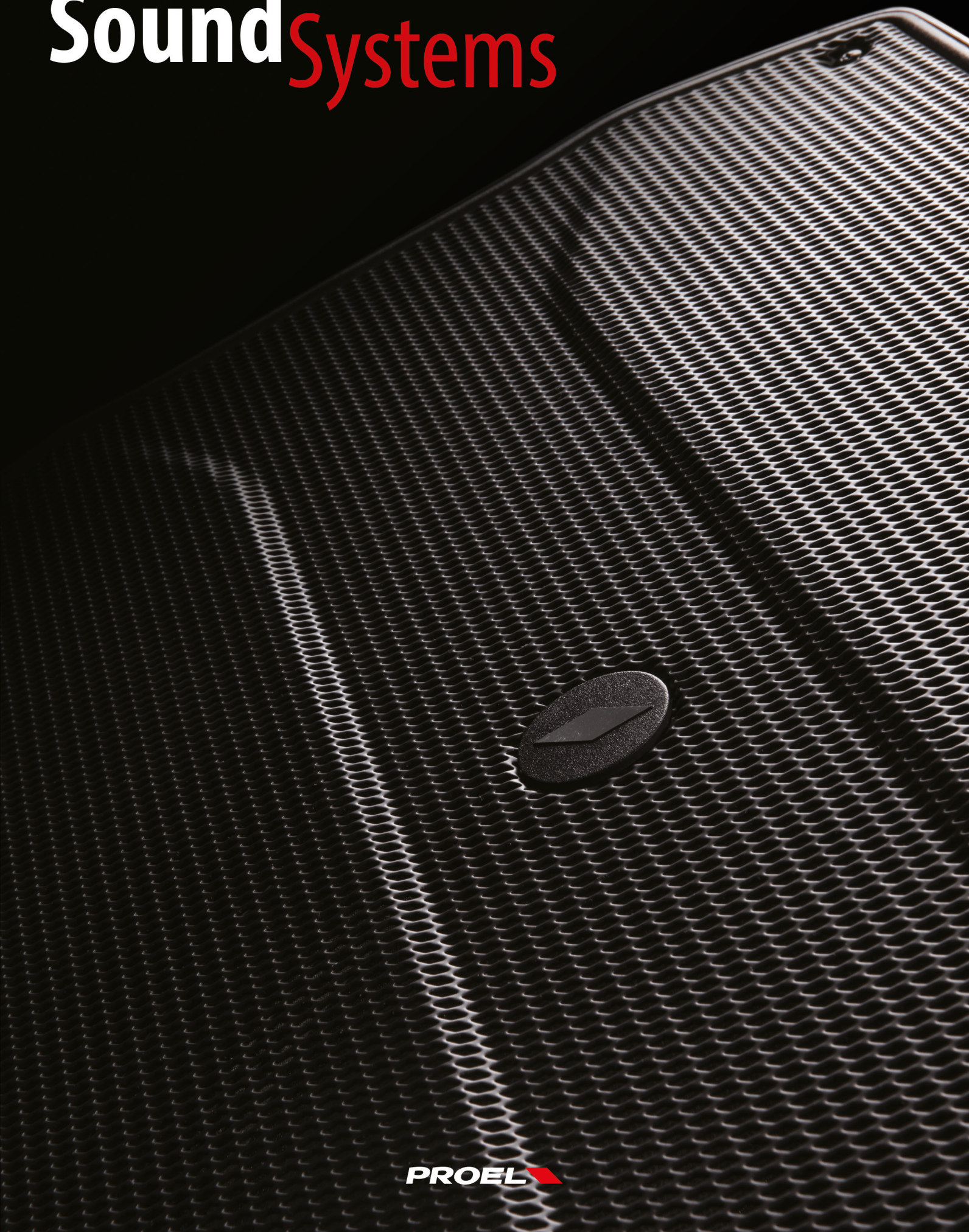


# SoundSystems





## **MIXERS**

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- 6 Mi series
- 11 M series
- 15 MLX series

## **STAGE GEAR**

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- 20 DB series
- 22 100 series

## **PROCESSORS**

---

- 28 PC series

## **POWER AMPLIFIERS**

---

- 30 DPX series
- 32 HPX series
- 34 HPD series

## **LOUDSPEAKERS**

---

- 38 WAVE series
- 40 V series
- 44 VHDA series
- 46 FLASHX series
- 50 LITE series
- 56 SW series
- 60 WD V2 series
- 62 XEOS series
- 64 XENIA series

## **STUDIO MONITORS**

---

- 68 EIKON series

## **PORTABLE SYSTEMS**

---

- 74 SESSION 4
- 76 FREEPASS
- 80 FREEPACK
- 84 FREE



EVERYTHING  
IN THE UNIVERSE  
EVERYTHING



E HAS A RHYTHM  
NG DANCES

(Maya Angelou)



# Mi SERIES

The **Mi Series** has been created by PROEL in order to offer very compact mixers with a **high input density** and a **superior audio quality** at a very affordable price. The series includes **5 models** with 5, 6, 10, 12 and 16 channels, featuring in a **very compact package** a high number of inputs and a full set of **intelligent functions**, able to satisfy most of the sound reinforcement applications. **Designed and engineered in Italy** by PROEL R&D, Mi mixers are hosted in an ultra-rugged stylish metal case, providing extended durability for a stage-proof use.

The smallest models of the series, **Mi5** and **Mi6**, offer in an ultra-compact format the performance of large professional consoles, delivering a **clean and accurate sound** and full mixing capability. The **Mi5**, despite its small size, includes a high-quality DSP able to provide musicians and performers with studio-grade effects.

With respectively 10 and 12 inputs, **Mi10** and **Mi12** feature one of the finest digital effects of its class, the **PROEL 24bit PROFEX DSP**, providing 256 studio-grade presets (including mono and stereo TAP DELAY and TAP DELAY + REVERB) with a convenient LCD display for the effect selection.

The **Mi16** features 8 MIC/LINE plus 4 STEREO LINE channels that, together with 2 monitor sends and the **24bit PROFEX DSP**, allows this compact console to be used for mixing a full live band with a clean and accurate sound.



## Mi5

- Ultra-compact 5-channel 2-bus mixer
- 1 MIC/LINE input channel with 2-band EQ and PHANTOM power
- Low-noise, very high-headroom microphone preamplifier
- 2 STEREO inputs with balance control
- Stereo HEADPHONES / C. ROOM output
- 2-TRACK input and output
- 24bit DSP with 16 presets
- Electronically balanced MAIN MIX outputs
- Two 4-LED VU-METERS
- Applications: home recording and rehearsal, ultra-small personal mixer for musicians



## Mi6

- Ultra-compact 6-channel 2-bus mixer
- 2 MIC/LINE input channels with high-headroom, low-noise MIC preamps, 2-band EQ and PHANTOM power
- 2 STEREO inputs with balance control
- Stereo HEADPHONES / C. ROOM output
- 2-TRACK output
- Electronically balanced MAIN MIX outputs
- 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-quality **24bit DSP** with 16 single and combined studio-grade effects



High-headroom, low-noise MIC preamps

# Mixers Mi SERIES



**3-band EQ** with musical filtering frequencies and LO-CUT



## Mi10

- Compact 10-channel 2-bus mixer
- 2 MIC/LINE inputs with high-headroom, low-noise MIC preamps, 3-band EQ, LO-CUT and PHANTOM power
- 4 STEREO LINE inputs with balance control and effect send
- 1 AUX send
- 2-TRACK, HEADPHONES and CONTROL ROOM outputs
- 24bit studio-grade PROFEX DSP with 256 effects, TAP delay and LCD display
- Electronically balanced MAIN MIX outputs
- Two 4-LED VU-METERS
- Applications: small live bands (2 to 4 people), home and multimedia applications, rehearsal rooms, small fixed installations



24bit studio-grade **PROFEX DSP** with 256 effects, TAP delay and LCD display



## Mi12

- Compact 12-channel 2-bus mixer
- 4 MIC/LINE inputs with high-headroom, low-noise MIC preamps, 3-band EQ, LO-CUT and PHANTOM power
- 4 STEREO LINE inputs with balance control, monitor and effect send
- 2 AUX sends
- 2-TRACK, HEADPHONES and CONTROL ROOM outputs
- 24bit studio-grade PROFEX DSP with 256 effects, TAP delay and LCD display
- Electronically balanced MAIN MIX outputs with 45mm fader
- Two 4-LED VU-METERS
- Applications: small live bands (3 to 5 people), home and multimedia applications, rehearsal rooms, small fixed installations





## Mi16

- Compact 16-channel 2-bus mixer
- 8 MIC/LINE inputs with 3-band EQ, LO-CUT and PHANTOM power
- Low-noise, high-headroom microphone preamplifiers
- 4 STEREO LINE inputs with 2-band EQ
- 3 AUX sends
- 2-TRACK, HEADPHONES and CONTROL ROOM outputs
- PFL function on all channels
- 24bit PROFEX DSP with 256 presets, TAP delay and 2-digit display
- Electronically balanced MAIN MIX outputs with 1/4" JACK and XLR-M connectors
- Two 8-LED VU-METERS
- Applications: full live bands, home and multimedia applications, rehearsal rooms, fixed installations

2 monitor sends  
for mixing a full  
live band

# Mixers Mi SERIES



		Mi5	Mi6	Mi10	Mi12	Mi16	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 -20 dB	from +20 to -40 dB	from +20 to -40 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.	
<b>EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	±15 dB @ 12KHz	±15 dB @ 12 KHz	±15 dB @ 12 KHz	±15 dB @ 12KHz	
	MID (peaking)		±15 dB @ 2.5KHz	±15 dB @ 2.5 KHz	±15 dB @ 2.5 KHz	±15 dB @ 2.5KHz	
	LOW (shelving)	±15 dB @ 80Hz	±15 dB @ 80Hz	±15 dB @ 80 Hz	±15 dB @ 80 Hz	±15 dB @ 80Hz	
<b>STEREO INPUT CHANNEL</b>							
<b>Line Input</b>	sensitivity	-10 dB	-10 dB	+4 / -10 dB	+4 / -10 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	
	LOW (shelving)					±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 (Mi16) Balanced XLR-M
<b>C. ROOM output</b>	nom. out level			0 dBu	0 dBu	0 dBu	Unbalanced JACK
<b>AUX output</b>	nom. out level			0 dBu	0 dBu	0 dBu	Unbalanced JACK
<b>2TRK</b>	nom. out level	0 dBu	0 dBu	0 dBu	0 dBu	0 dBu	Unbalanced RCA
	nom. in level	0 dBu	0 dBu	0 dBu	0 dBu	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>PROFEX DIGITAL EFFECT PROCESSOR (not available for Mi6)</b>							
<b>Effects</b>		16 presets: HALL, ROOM, VOCAL and PLATE reverbs; STEREO and MONO DELAY; REV + DELAY, REV + CHORUS 256 (16 presets x 16 variations): HALL, ROOM, VOCAL and PLATE reverbs; STEREO and MONO TAP DELAY; REV + DELAY, REV + TAP DELAY, REV + CHORUS					
<b>A/D and D/A converters</b>		24 bit		24 bit			
<b>DSP resolution</b>		24 bit		24 bit			
<b>Controls</b>		16-position rotary switch, PEAK LED, MUTE switch		2-DIGIT display, DIAL, PEAK LED, MUTE and TAP DELAY switch			
<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>		173x222x60 mm	173x222x60 mm	200x266x60 mm	254x302x60 mm	420 x 368 x 87 mm	
<b>Weight</b>		1.00 kg	1.00 kg	1.50 kg	2.00kg	3.80 kg	
<b>POWER REQUIREMENTS</b>							
<b>Supply</b>		18 VAC 500 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)	
<b>Consumption</b>		17 W	17 W	32 W	32 W	20 W	



# M SERIES

After providing for many years thousands of satisfied users with the best mixing tools, the latest generation of M Series compact mixers is still offering a superior audio quality, a full set of features and the **highest number of MIC inputs in the category**, together with **'intelligent' functions** such as USB routing and channel COMPRESSORS.

All the models feature the **PROEL 24bit PROFEX DSP**, one of the finest digital effect of its class, providing 256 studio-grade algorithms (including mono and stereo TAP DELAY and TAP DELAY + REVERB) and a convenient LCD display.

**Designed and engineered in Italy** by PROEL R&D, M mixers are hosted in an ultra-rugged stylish metal case with ABS sides, providing extended durability for a stage-proof use. As a unique feature in the category, all the models include as standard both a **padded carrying bag** and metal brackets for 19" rack mounting.

The ultra-portable **M602FX** with 2 mono and 2 stereo channels provides the most demanding performers with all the functions necessary to mix a limited number of signals with **utmost accuracy**.

The 8-in, 6-mic **M822USB** includes a versatile **USB routing section**, for a complete control of the signals to and from the PC and a built-in universal power supply.

**M1622USB**, offering 16 inputs and 12 microphone channels, now features **4 AUX sends**, the **USB routing** and also one-knob intelligent **COMPRESSORS** on the MONO channels.

# Mixers M SERIES



Padded **carrying bag** included, for the maximum protection and the easiest transport



## M602FX

- Compact 6-channel 2-bus mixer
- 2 MIC/LINE inputs and 2 MIC/LINE STEREO inputs with 4 high-performance, low-noise MIC preamps
- 3-band EQ
- 1 AUX send
- 24bit studio-grade PROFEX DSP with 256 effects, footswitch controllable TAP delay and LCD display
- 2-TRACK IN & OUT with level control
- PHONES and C.ROOM outputs
- Balanced MAIN MIX output with 45mm fader
- Two 8-LED VU-METERS
- Padded carrying bag and 19" rack adapters included
- Applications: small live bands (2 to 4 people), home and multimedia applications, small fixed installations, rehearsal rooms



## M822USB

- Compact 8-channel 4-bus mixer
- 4 MIC/LINE inputs and 2 MIC/LINE STEREO inputs with 6 high-performance, low-noise MIC preamps and
- 3-band EQ and LO-CUT filter (MONO channels)
- 2 AUX sends (MON + FX)
- 24bit studio-grade PROFEX DSP with 256 effects, footswitch controllable TAP delay and LCD display
- 2-TRK IN & OUT with dedicated level control
- ALT 3-4 additional bus
- PHONES and C.ROOM (with fader) outputs
- USB interface with ROUTING
- 45mm faders
- Balanced MAIN MIX output with XLR connectors on top panel
- Two 8-LED VU-METERS
- Padded carrying bag and 19" rack adapters included
- Built-in switching power supply
- Applications: small live bands (4 to 6 people), home and multimedia applications, small fixed installations, rehearsal rooms



**USB** interface with full IN & OUT ROUTING capability



## M1622USB

- Compact 16-channel 4-bus mixer
- 8 MIC/LINE inputs and 4 MIC/LINE STEREO inputs with 12 high-performance, low-noise MIC preamps
- 3-band EQ, LO-CUT filter and INSERT point on all MONO channels
- “One-knob” COMPRESSORS for an accurate and easy-to-use dynamic processing of vocals and instruments
- 4-band EQ on STEREO channels
- 4 AUX sends and 2 GROUPS
- 24bit studio-grade PROFEX DSP with 256 effects, footswitch controllable TAP delay and LCD display
- 2-TRK IN & OUT with dedicated level control
- PHONES and C.ROOM outputs
- 60mm faders
- Balanced MAIN MIX output with XLR connectors on top panel and INSERT point
- 7-band GRAPHIC EQ assignable to MIX L&R or to AUX 1&2
- USB interface with ROUTING
- STANDBY function
- Two 8-LED VU-METERS
- Padded carrying bag and 19” rack adapters included
- BNC connector for 12VDC lamp
- Built-in switching power supply
- Applications: full live bands, large multimedia applications, fixed installations in large conference room, clubs and theaters



One-knob intelligent  
**COMPRESSORS**

# Mixers M SERIES

## OPTIONAL ACCESSORIES

### SDC670PRO



Optional LED lamp with BNC connector

### GF29



Optional footswitch



		M602FX	M822USB	M1622USB	Connectors
<b>MONO INPUT CHANNEL</b>					
<b>Mic Input</b>	sensitivity	from -10 to -50 dB	from 0 to -60 dB	from 0 to -60 dB	Balanced XLR-F
	impedance	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	Balanced JACK
	impedance	10 Kohm	10 Kohm	10 Kohm	
<b>Lo cut</b>			75Hz, 18dB/oct.	75Hz, 18dB/oct.	
<b>EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	±15 dB @ 12 KHz	±15 dB @ 12 KHz	
	MID (peaking)	±15 dB @ 2.5KHz	±15 dB @ 2.5 KHz	±15 dB from 100 Hz to 8 kHz	
	LOW (shelving)	±15 dB @ 80Hz	±15 dB @ 80 Hz	±15 dB @ 80 Hz	
<b>Compressor</b>				CH 1-8, 1 control	
<b>STEREO INPUT CHANNEL</b>					
<b>Mic Input</b>	sensitivity	from -0 to -40dB	from -0 to -40dB	from -0 to -40dB	Balanced XLR-F
	impedance	2 Kohm	2 Kohm	2 Kohm	
<b>Line Input</b>	sensitivity	from +20 to -20 dB	from +20 to -20 dB	from +20 to -20 dB	Balanced JACK
	impedance	10 Kohm	10 Kohm	10 Kohm	
<b>EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	±15 dB @ 12 KHz	±15 dB @ 12 KHz	
	MID (peaking)	±15 dB @ 2.5KHz	±15 dB @ 2.5 KHz		
	HI-MID (peaking)			±15 dB @ 3 KHz	
	LO-MID (peaking)			±15 dB @ 500 Hz	
	LOW (shelving)	±15 dB @ 80Hz	±15 dB @ 80 Hz	±15 dB @ 80 Hz	
<b>MASTER SECTION</b>					
<b>MAIN MIX</b>	nom. out level	+4 dBu	+4 dBu	+4 dBu	Balanced JACK (M602FX) Balanced XLR-M
<b>MAIN MIX insert</b>	nom. out level			0 dBu	TRS JACK
<b>Graphic EQ</b>				7-band	
<b>C. ROOM output</b>	nom. out level	0 dBu	0 dBu	0 dBu	Unbalanced JACK
<b>ALT 3 - 4 output</b>	nom. out level		0 dBu	0 dBu	Unbalanced JACK
<b>GROUP output</b>	nom. out level			+4 dBu	Balanced JACK
<b>AUX output</b>	nom. out level	0 dBu	0 dBu	0 dBu	Unbalanced JACK
<b>2TRK</b>	nom. out level	0 dBu	0 dBu	0 dBu	Unbalanced RCA
	nom. in level	0 dBu	0 dBu	0 dBu	Unbalanced RCA
<b>HEADPHONES</b>	min. impedance	32 ohm	32 ohm	32 ohm	
	max. out level	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	Stereo JACK
<b>USB</b>			Stereo IN/OUT 16-bit converter, 48 KHz sample rate	Stereo IN/OUT 16-bit converter, 48 KHz sample rate	Type B
<b>PROFEX DIGITAL EFFECT PROCESSOR</b>					
<b>Effects</b>		256 (16 presets x 16 variations): HALL, ROOM, VOCAL and PLATE reverbs; STEREO and MONO TAP DELAY; REV + DELAY; REV + TAP DELAY; REV + CHORUS			
<b>A/D and D/A converters</b>		24 bit			
<b>DSP resolution</b>		24 bit			
<b>Controls</b>		2-DIGIT display, DIAL, PEAK LED, MUTE and TAP DELAY switch, MUTE and TAP DELAY 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>		240 x 85 x 272 mm	315 x 91 x 363 mm	465 x 91 x 462 mm	
<b>Weight</b>		1,80 kg	3,40 kg	6,50 kg	
<b>POWER REQUIREMENTS</b>					
<b>Supply</b>		18 VAC 500 mA (use only supplied AC/AC ADAPTER)	Internal power supply		
<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)			
		110-240 VAC (±10%) 50 / 60 Hz available with Europe mains cord (Shucko plug) US mains cord (NEMA 5-15P plug) UK mains cord (BS1363 plug)			
<b>Consumption</b>		32 W	45 W	75 W	



# MLX SERIES

**MLX2842** and **MLX3642** are **large format mixers** combining a large number of channels with a full set of features designed to fit any **professional** sound reinforcement application.

The **20 or 28 MONO** input channels feature ultra-low noise, high-headroom **preamps**, able to capture the full range of any instrument. The **4-band EQ** with two sweep mids has a great response for tweaking your sound in the most musical way, while the EQ ON/OFF switch allows instant comparison. Each model includes **two STEREO** channels with 4-band EQ.

The **6 AUX sends** can be set pre- or post-fader in pairs. AUX sends 1 to 4, with **60mm faders** and **3-band EQ**, provide effective control of the stage monitoring. AUX sends 5&6 can be routed to the two internal effects, to external outboard or used as two additional monitor sends. **Two STEREO RETURNS** with full routing allow to connect external outboard or two additional stereo instruments.

All the channels together with the four GROUPS and the MAIN MIX feature **100mm** long-wearing high-quality faders for the most accurate level control.

The MLX mixers include **two 24-bit PROFEX digital effects** able to provide 256 studio-grade gig-ready effect algorithms: this allows to enhance your mix with natural high-resolution reverb or delay effects without the need of external outboard. The effects can be selected thru a convenient LCD display and they can be freely routed to the monitor sends, the groups and the main mix.

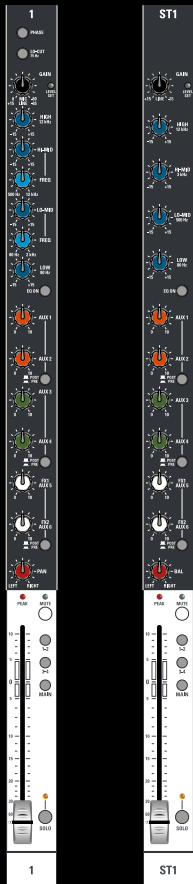
The MLX series features a built-in **USB interface** to get CD quality audio to and from your computer: thru the USB interface you can play audio files from the PC or record your live performance directly on hard-disk. The MLX USB interface offers the possibility to **route** the INPUT signal directly to the MAIN MIX or to STEREO channel 2 and to get the OUTPUT signal from the MAIN MIX or from GROUPS 1&2.

The MLX MASTER section offers plenty of services and useful features, such as a **MAIN MUTE** switch, a **TALKBACK** section and separate PHONES and MONITOR level controls. Two or three USB sockets are available for connecting **5V USB LAMPS**.

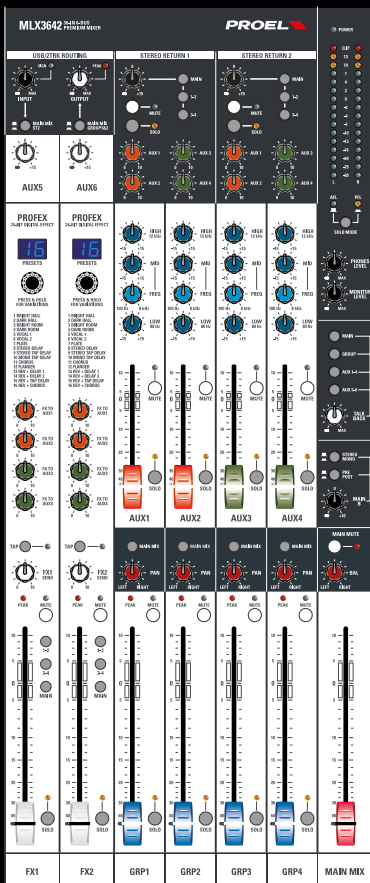
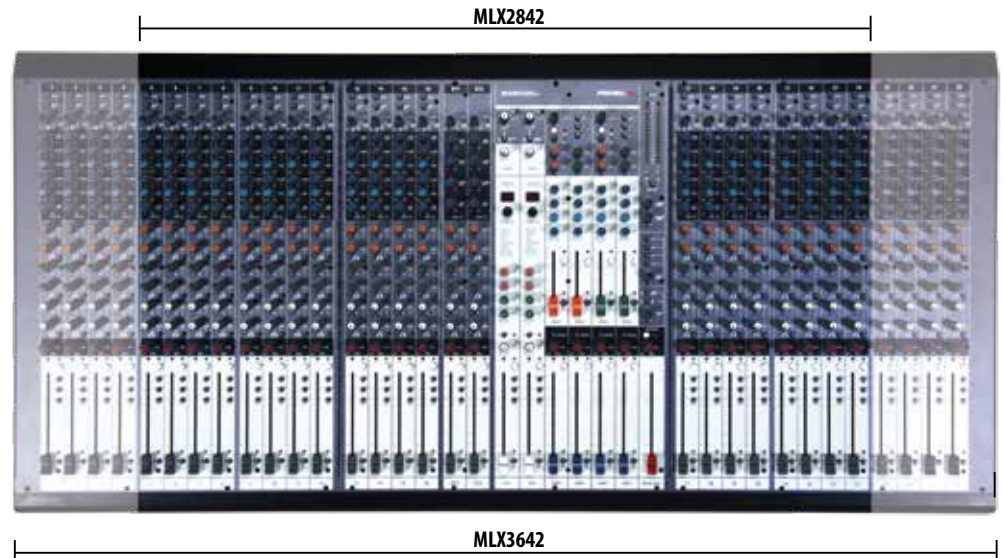
The **intuitive control surface layout** and the color-coded ergonomic knobs of MLX mixers allow to locate easily each function and makes them extremely easy to use. Both models are hosted in a rugged and road-proof metal chassis.

# Mixers MLX SERIES

## CHANNELS



MONO STEREO



## MASTER SECTION

## MLX2842 / MLX3642

- Premium 28 or 36-Input 4-Bus Live Mixers with built-in PROFEX effects and USB interface
- 20 or 28 state-of-the-art low-noise Mic Preamps
- Mono channels with 4-band EQs with 2 sweep mid, Lo-Cut, Insert and Direct Out
- 4 stereo Line inputs with 4-band EQs
- 6 Aux sends per channel pre/post fader switchable
- Peak and Signal LEDs plus Mute, Solo, Subgroup and Main routing switches on all channels
- Aux 1 to 4 with 3-band EQ, 60mm faders and Insert for advanced stage monitoring
- 4 Subgroup outputs with Inserts
- 2 independent Main outputs with Inserts on Main Mix
- 2 Stereo Returns with comprehensive routing options
- 2 Headphones and 1 Monitor outputs with independent level control
- Solo-In-Place with PFL/AFL function plus full-featured Talkback section
- Main Mute function
- 2 independent 24-bit PROFEX digital effects with 256 studio-grade presets including reverbs, delays, chorus and combination effects
- USB audio IN/OUT interface with comprehensive routing options
- Long-wearing 100 mm logarithmic-taper faders
- High-resolution 2 x 16-LED bar meters
- Balanced Main Mix, Main B and AUX 1-4 outputs with XLR connectors
- USB connectors for the use of 5V lamps
- Internal universal power supply (100 – 240 V~)
- High-quality components and rugged construction for the maximum durability
- Designed and Engineered by PROEL Italy





Section		Data	Connectors
<b>MONO INPUT CHANNEL</b>			
<b>Mic Input</b>	sensitivity	from 0 to -50 dB	Balanced XLR-F
	impedance	2 Kohm	
	max input level	+22 dBu	
<b>Line Input</b>	sensitivity	from +15 to -35 dB	Balanced JACK
	impedance	10 Kohm	
	max input level	+22 dBu	
<b>Insert</b>	send & return level/max	-10 dBu / +22 dBu	TRS JACK
<b>Direct Out</b>	max output level	+22 dBu	Balanced JACK
<b>Lo cut</b>		75Hz, 18dB/oct.	
<b>EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	
	HI-MID (peaking)	±15 dB from 500Hz to 12KHz	
	LO-MID (peaking)	±15 dB from 80Hz to 2KHz	
	LOW (shelving)	±15 dB @ 80Hz	
<b>STEREO INPUT CHANNEL</b>			
<b>Line Input</b>	sensitivity	from +15 to -35 dB	Balanced JACK
	impedance	10 Kohm	
	max input level	+22 dBu	
<b>EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	
	HI-MID (peaking)	±15 dB @ 3KHz	
	LO-MID (peaking)	±15 dB @ 500Hz	
	LOW (shelving)	±15 dB @ 80Hz	
<b>MASTER SECTION</b>			
<b>MAIN MIX</b>	max. out level	+28 dBu	Balanced XLR-M
<b>MAIN MIX insert</b>	send & return level/max	-10 dBu / +22 dBu	TRS JACK
<b>AUX output</b>	max out level	+22 dBu	Balanced XLR-M, Balanced JACK
<b>AUX 1-4 EQ</b>	HIGH (shelving)	±15 dB @ 12KHz	
	MID (peaking)	±15 dB from 100Hz to 8KHz	
	LOW (shelving)	±15 dB @ 80Hz	
<b>GROUP output</b>	max out level	+22 dBu	Balanced JACK
<b>MONITOR output</b>	nom. out level	+22 dBu	Unbalanced JACK
<b>2TRK</b>	max out level	+15 dBu	Unbalanced RCA
	max in level	+22 dBu	Unbalanced RCA
<b>HEADPHONES</b>	max. out level	+22 dBu / 600 ohm	Stereo JACK
<b>USB</b>		Stereo IN/OUT, 16-bit converter, 48 KHz sample rate	Type B
<b>PROFEX DIGITAL EFFECT PROCESSOR</b>			
<b>Effects</b>		256 (16 presets x 16 variations): HALL, ROOM, VOCAL and PLATE reverbs; STEREO and MONO TAP DELAY; REV + DELAY, REV + TAP DELAY, REV + CHORUS	
<b>A/D and D/A converters - DSP resolution</b>		24 bit	
<b>Controls</b>		2-DIGIT LCD, DIAL, TAP DELAY switch	
<b>GENERAL SPECIFICATIONS</b>			
<b>Impedance</b>	all line outputs	120 ohm unbalanced	
<b>Crosstalk (meas. at 1 KHz)</b>	channel to channel	> -80dBu	
	mix to mix	> -80dBu	
	channel to mix	> -80dBu	
<b>Noise</b>	all channels routed, faders down	< -90 dBu	
	all channels routed at 0 dB	< -86 dBu	
<b>THD</b>	mic to insert	< 0,009 % (+30 dB unity gain, +20 dBu output)	
	mix to mix	< 0,03 % (+30 dB unity gain, +20 dBu output)	
<b>Dimensions (WxHxD)</b>		MLX2842: 900 x 170 x 515 mm - MLX3642: 1125 x 170 x 515 mm	
<b>Weight</b>		MLX2842: 17.2 kg - MLX3642: 21.1 kg	
<b>POWER REQUIREMENTS</b>			
<b>Power Supply</b>		100-240VAC, 50/60Hz	
<b>Consumption</b>		100 W	

## OPTIONAL ACCESSORIES

### CMMLX2842



Flight Case for MLX2848

### CMMLX3642



Flight Case for MLX3642

### USBLL02



USB LED lamp



MUSIC IS TO THE  
WHAT WORDS A



**SOUL  
RE TO THE MIND**

(Modest Mouse)



# 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 **three different models of high-performance D.I. boxes**: a single channel active (**DB1A**), 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 (DB1A, 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 ACTIVE versions 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.





## DB1A

- Single channel active D.I. Box
- MU-METAL core isolation transformer for full isolation between the musician's gear and the sound reinforcement system
- Low-noise ICs for balancing the signal, able to guarantee audio integrity and to handle very low-impedance loads.
- High dynamic headroom with minimum phase and harmonic distortion
- Input JACK and XLR connectors with link possibility (all the connections on the same side)
- -10 dB, -20 dB, -30 dB PAD
- CLIP and SIGNAL LED
- Phase reverse switch
- Powering options: 9V battery, +48V, external AC/DC adapter supply
- 19" rack mountable (ears included)
- Designed to be used by professional



## 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

	DB1A	DB2A	DB1P
<b>System Type</b>	1-channel active DI BOX	2-channel active DI BOX	1-channel passive DI BOX
<b>INPUT SECTION</b>			
<b>Input Impedance</b>	1M Ohm (pad at 0 dB) 47k Ohm (pad at -20 dB) 44k Ohm (pad at -30 dB)	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)	+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 XLR connector (unbalanced) Jack: Tip Hot / Sleeve Ground XLR female: Pin 2 Hot / Pin 1 & 3 Ground	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>	Transformer Balanced (fully isolated)	Active discrete devices (transformer less)	Transformer Balanced (isolated with shielding)
<b>Max. Output Level</b>	into 600 Ohms or greater +3 dBu (for 0.1% THD at 50 Hz) +5 dBu (for 0.1% THD at 1k Hz)	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	XLR male: Pin 2 Hot / Pin 3 Cold / Pin 1 Ground
<b>System Performance</b>			
<b>Insertion loss</b>	< 1 dB	< 1 dB	20 dB
<b>CMR</b>	> 60 dB	> 50 dB	> 100 dB
<b>Phase distortion</b>	+11° at 20 Hz, -6° at 20k Hz	+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 %	< 0.007 %
<b>Noise</b>	< -105 dBu unweighted	< -105 dBu unweighted	< -105 dBu unweighted
<b>Frequency Response</b>	10 Hz to 100 kHz, +0dB/-1 dB	10 Hz to 40 kHz, +0dB/-1 dB	10 Hz to 100 kHz, +0dB/-1 dB
<b>Controls</b>	On/off, Pad -10, Pad -20, Gnd Lift, Ø inv	On/off, Pad -20, Pad -30, Gnd Lift	Pad -20, Pad -40, Gnd Lift, Filter (12" emulator)
<b>Indicators</b>	On, signal, clip	On	-
<b>GENERAL</b>			
<b>Phantom Power</b>	+24 volts DC to +48 volts DC	+24 volts DC to +48 volts DC	-
<b>External AC/DC adapter</b>	+9 volts DC	+9 volts DC	-
<b>Standalone/Standby</b>	9 volt PP3 type, battery preferably alkaline	9 volt PP3 type, battery preferably alkaline	-
<b>Current consumption</b>	less than 8 mA	less than 8 mA	-
<b>Dimensions (W x H x D)</b>	215 x 50 x 125 mm	215 x 50 x 125 mm	215 x 50 x 125 mm
<b>Weight (excluding batteries)</b>	1.08 kg (2.38 lb)	1.06 kg (2.34 lb)	1.04 kg (2.29 lb)



PROEL

1

2

3



PROEL

INPUT

LINK

PAD  
0dB  
20dB



# 100 SERIES

The 100 Series is a range of accessories and useful **tools**, ranging from D.I. Boxes and Headphone Amps to Signal Splitters, Tube Preamps and Power Supply Units, 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.

# Stage Gear 100 SERIES



## 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 ¼" JACK input connectors + ¼" 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
- ¼" JACK input and link connectors
- XLR-M balanced output
- 20dB & 40dB PAD and GND lift switch
- Stackable aluminum shell



## PHANTOM100

- Phantom Power Supply
- Provides clean and hum-free +48V power supply for all condenser microphones
- Suitable for all applications where +48V power supply is not available from mixing console (direct recording to PC, use of devices with no phantom power, fixed installations, etc.)
- Powered by DC adapter (included)
- Stackable aluminum shell



## SPLIT100

- Signal Splitter
- Splits a microphone or line input signal into two outputs equal to the original
- High-quality isolation transformer for a complete separation between the two output signals
- GND LIFT switch for each output
- XLR-F input + XLR-M link connectors, 2 x XLR-M output connectors
- 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



# Stage Gear 100 SERIES



## 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



## TUBE1000USB

- TUBE microphone preamp with USB
- 12AX7 tube preamp section for adding warmth to microphones and instruments
- Built-in low-noise +48V phantom power
- PHASE reverse switch, adjustable LO-CUT filter, VOCAL EQ, built-in LIMITER circuit
- Input and output GAIN controls plus SATURATION function
- Accurate dual LEVEL METER
- Microphone (XLR-F) and instrument (1/4" JACK) inputs
- XLR-M and 1/4" JACK balanced outputs
- USB 1.1 compliant, compatible with Windows XP/Vista/7 and Mac OS 9.1 and newer

## PSU110

- 10-Out Power Supply
- Universal high-performance power supply for pedal effects
- 8 x 9VDC outputs, 1 x 12VDC output, 1 x 12VAC output
- Output 7 and 8 with fine power adjustment
- Dip switches for individual adjustment of the 9VDC outputs
- Total output power 2000mA
- Complete isolation and short-circuit protection for each output
- Superior quality power transformer for hum-free operation
- Full cable set included



	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

	PHANTOM100
<b>System Type</b>	48V Phantom Power Supply
<b>Input Connector</b>	1 x XLR-F
<b>Output Connector</b>	1 x XLR-M
<b>Output Phantom Power</b>	48V DC +/-2V
<b>Frequency Response</b>	20 Hz - 20 KHz (-3 dB)
<b>Controls</b>	ON/OFF switch
<b>Indicators</b>	Power ON
<b>Power supply</b>	9V DC (adapter included)
<b>Dimensions (W x H x D)</b>	134 x 50 x 72 mm
<b>Weight</b>	0,7 Kg

	SPLIT100
<b>System Type</b>	Signal Splitter
<b>Input Connector</b>	1 x XLR-F
<b>Link Connector</b>	1 x XLR-M
<b>Output Connectors</b>	2 x XLR-M
<b>Max Input Level</b>	+4 dBu (at 50Hz)
<b>Distortion</b>	0.002% (0 dBu, 1 KHz)
<b>Frequency Response</b>	20 Hz - 20 KHz (-3 dB)
<b>Insertion loss</b>	-2.5 dB into 600 ohm load
<b>Controls</b>	2 x GND LIFT
<b>Dimensions (W x H x D)</b>	134 x 50 x 123 mm
<b>Weight</b>	0,6 Kg

	TUBE100USB
<b>System Type</b>	Tube Mic Preamp with USB
<b>MICROPHONE INPUT</b>	
<b>Impedance</b>	2.5 Kohm
<b>Sensitivity</b>	from 0 to -60 dBu
<b>Connectors</b>	XLR-F (balanced)
<b>INSTRUMENT INPUT</b>	
<b>Impedance</b>	>1 Mohm
<b>Sensitivity</b>	from +10 to -50 dBu
<b>Connector</b>	1/4" jack (unbalanced)
<b>INSERT</b>	
<b>Impedance send</b>	100 ohm
<b>Impedance return</b>	10 Kohm
<b>Nominal out Level</b>	0 dBu
<b>Connectors</b>	1/4" jack (unbalanced)
<b>ANALOG OUTPUT</b>	
<b>Impedance</b>	60 ohm
<b>Nominal out level</b>	+4 dBu
<b>Maximum out level</b>	+21 dBu
<b>Connectors</b>	XLR-M and 1/4" jack (balanced)
<b>USB OUTPUT</b>	
<b>Type</b>	USB 1.1 and 2.0 (type B)
<b>Converter</b>	16 bit
<b>Sampling rate</b>	48 KHz
<b>SYSTEM PERFORMANCE</b>	
<b>Noise</b>	< 95 dB unweighted
<b>Distortion (THD)</b>	0.008 % (at 1 KHz +4 dBu)
<b>Frequency response</b>	20 Hz - 20 KHz (-0.5 dB)
<b>GENERAL</b>	
<b>Controls</b>	MIC/INSTR selector, INPUT GAIN, 48V, PHASE REV, LOW CUT, LOW CUT FREQUENCY, VOCAL EQ, SATURATION, LIMIT, ENHANCE, OUT LEVEL, REC MUTE, ON/OFF switch
<b>Indicators</b>	INPUT VU-METER, 48V, VU METER, USB, MUTE
<b>Supply</b>	18 VAC 1000 mA (adapter included)
<b>Mains Supply Voltage</b>	100-120 VAC or 220-240 VAC, 50-60 Hz
<b>Consumption</b>	32 W
<b>Dimensions (W x H x D)</b>	200 x 56 x 140 mm
<b>Weight</b>	1,8 Kg

	PSU110
<b>System Type</b>	10-Out Power Supply
<b>Output 1-4</b>	9V DC (adjustable to 12V DC by DIP switch)
<b>Output 5-6</b>	9V DC (adjustable to 15V DC by DIP switch)
<b>Output 7-8</b>	9V DC (adjustable from 4 to 9V DC by knob)
<b>Output 9</b>	12V DC
<b>Output 10</b>	12V AC
<b>MAX total power output</b>	2000 mA
<b>Power supply</b>	Selectable 100-120 VAC, 220-240 VAC, 50-60 Hz
<b>Dimensions (W x H x D)</b>	169 x 68 x 107 mm
<b>Weight</b>	1,6 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** converter).

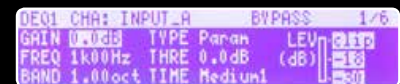
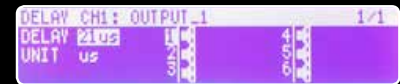
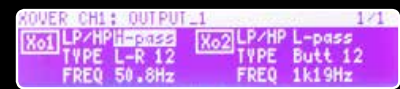


# PC260

- 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 $\mu$ s
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	$\pm$ 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	$\pm$ 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	+1/2 dB 20 Hz - 20 kHz
Dynamic range	>110 dB 20 Hz - 20 kHz unwrtd
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 $\pm$ 15% @ 50/60 Hz





# DPX SERIES

**DPX** is a series of **ultra-lightweight** power amplifiers able to offer to **professional entertainers** 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 DPX's 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) helps to reduce further the weight, while using much less energy with a direct benefit to the environment.

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



- Ultra-efficient SWITCH MODE POWER SUPPLY
- High-density CLASS D output stages
- Integrated fast-attack CLIP LIMITERS
- Built-in 24dB/oct. stereo CROSSOVER filter with BI-AMP and HPF option
- STEREO / BRIDGE / PARALLEL mode
- XLR input and link connectors
- SPEAKON output connectors
- AC, DC, thermal, short-circuit and VHF protection
- Precise 8-segment LED ladders
- FRONT-TO-BACK ventilation system with variable speed fan
- Ultra-light all- aluminum chassis with die-cast handles
- TOTAL WEIGHT less than 6kg

	DPX1000	DPX1500	DPX2000
Power 8 ohm*	350	500	650
Power 4 ohm**	500	750	1000
Power BRIDGE 8 ohm**	1000	1500	2000
* W RMS per channel, both channel driven, 1KHz THD 1%, ** 40ms burst			
Output Stage	Class D		
Frequency Response	20 Hz - 20 kHz		
Input Impedance	10 kΩ unbalanced 20 kΩ balanced		
Damping Factor	>60		
S/N Ratio (Unweighted)	>102 dB		
Input Connectors	XLR F (INPUT), XLR F (LINK)		
Output Connectors	SPEAKON		
Controls	INPUT LEVEL, STEREO/BRIDGE-PARALLEL, FLAT/BI-AMP/HPF		
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 382 mm		
Weight	5 Kg (11 lb)	5.1 Kg (11.2 lb)	5.75 Kg (12.7 lb)

## DPX1000



## DPX1500



## DPX2000



# 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
Power 8 ohm*	200	300	450	600	850	1200	1800
Power 4 ohm*	300	450	800	1000	1400	2000	3200
Power 2 ohm**	450	600	1200	1400	2300	3000	3900
Power BRIDGE 8 ohm*	600	900	1600	2000	2800	4000	6000
Power BRIDGE 4 ohm**	900	1200	2400	2800	4600	6000	7200

\* W RMS per channel, both channel driven, 1KHz THD 1%, \*\* 40ms burst

Output Stage	Class AB		Class H			Class I	
Frequency Response	20 Hz - 20 kHz						
Input Impedance	10 kΩ unbalanced - 20 kΩ balanced						
Damping Factor	>100						>200
Slew Rate	>20v/μs						
S/N Ratio (Unweighted)	>85 dB	>90 dB			>80 dB		>85 dB
Input Connectors	XLR M, 1/4" JACK, RCA				NEUTRIK Combo and XLR M		
Output Connectors	SPEAKON and Binding Post						
Controls	Detented INPUT LEVEL control, GAIN selector, STEREO/BRIDGE/PAR MODE selector LOW-PASS NOTCH (LPN - 900 to 2800), GND lift, SOFT CLIPPING (4600, 6000)						
LED Indicators	STANDBY, ON, PARALLEL, BRIDGE, SIGNAL, LIMIT, PROTECT - 8000: TEMP, -5/-10/-20						
Cooling	Variable speed DC fan						
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 335		483 x 89 x 395		483 x 89 x 505		483 x 89 x 451
Weight	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



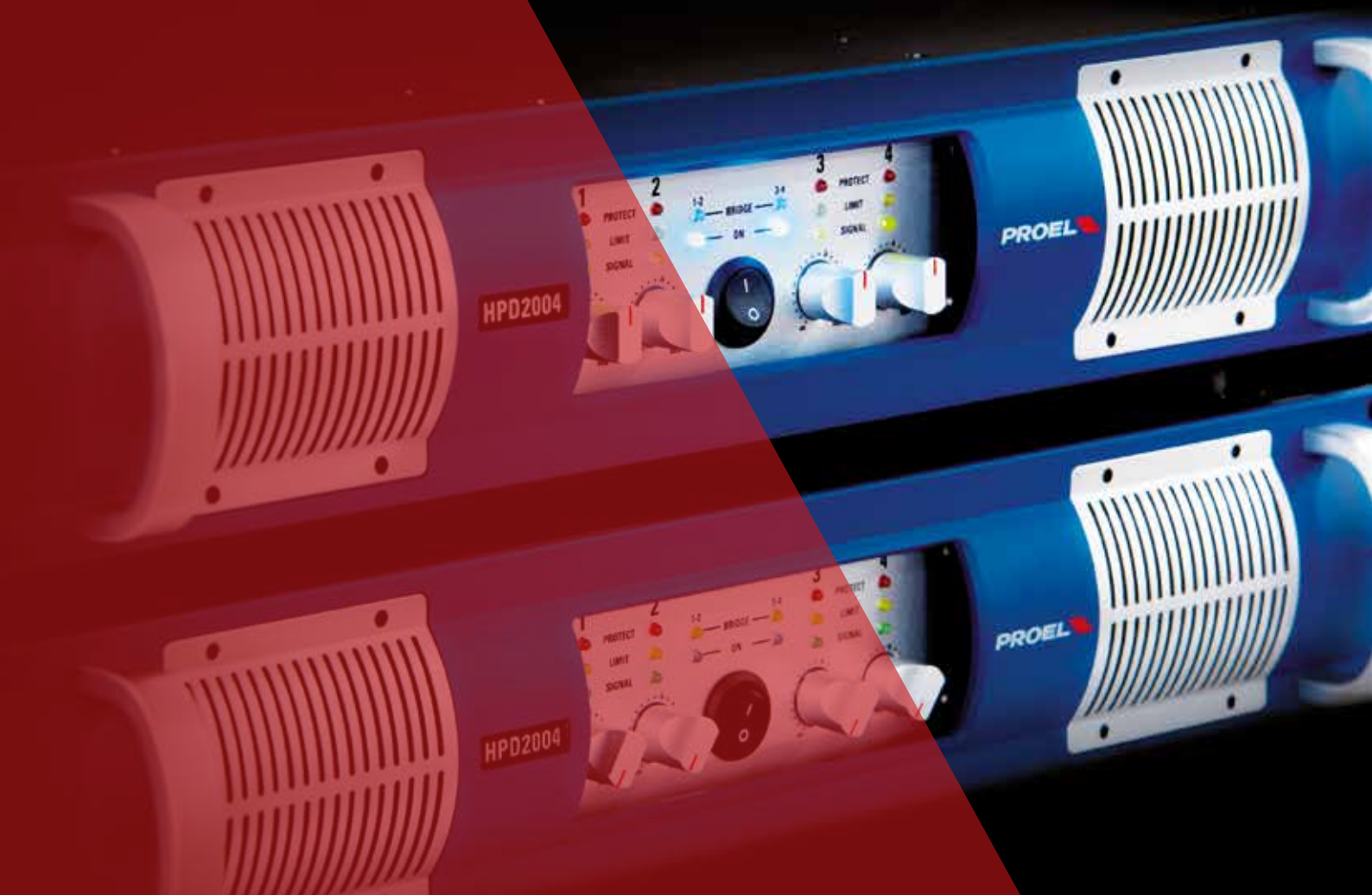
# HPD SERIES

**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, who 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
<b>W RMS, all channel driven, 1KHz THD 1%</b>		
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)	



MUSIC PRODUCES A KIND  
WHICH HUMAN NATURE



END OF PLEASURE  
WE CANNOT DO WITHOUT

(Confucius)



# WAVE SERIES

In response to the increasing request for compact, lightweight and easy-to-use portable PA systems, PROEL offers the **WAVE series**, a 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 thru 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 Rating (continuous)</b>	150 W	200 W	250 W
<b>Power Rating (peak)</b>	300 W	400 W	500 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 (30.8lb)	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 350mm	480 x 740 x 430 mm



  
PROEL





# V SERIES

**V Series** is the a range of powered loudspeakers delivering **absolute value** in terms of **performance, engineering** and **design**. 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 400 W of robust power** to the transducers. Thanks to the use of SMPS technology, this power comes in an **ultra-lightweight package**, making the V models the **most portable PROEL speakers ever**. The power module is hosted in a **fully sealed aluminum 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 Series has been precisely tuned in every details, in order to provide **unheard performance in this price range**. The V series cabinets, expression of the most advanced Italian design, include a super-comfortable luggage-style top handle for an effortless portability. The **slanted shape** allows the V speakers to be laid on their side and used also as stage monitors.

# Loudspeakers V SERIES



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



Symmetrical 45° wedge angle for stage monitoring



Selectable MIC/LINE input with 2-band EQ



Ergonomic, ultra-comfortable top handle for an effortless transportation

## V8A

- 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



## V10A

- 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



	V8A	V10A
<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

# V12A

- 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



# V15A

- 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



## OPTIONAL ACCESSORIES

### KPTNX04



Universal Wall Mount for Brackets  
KPTV8 - KPTV10 - KPTV12 - KPTV15

### COVERV8 COVERV12 COVERV10 COVERV15



Cover for V8A -V10A -V12A - V15A

### KPTV8 KPTV12 KPTV10 KPTV15



Brackets for V8A -V10A -V12A - V15A

	V12A	V15A
<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



# V HDA SERIES

Following the worldwide success of V Series, PROEL has added two models offering **advanced transducers, amplification and DSP technology** in the stylish and ultra-compact V package. **V HDA** feature carefully designed transducers combined with a powerful 1200W Class D amplifier and PROEL high-resolution CORE processing, for an unmatched **performance** in their class.

The high-excursion 3" VC woofers, combined with **CELESTION** precision compression drivers mounted on the V Series wide coverage waveguide, produce an impressive sound pressure level with a flat and extended response and a sound you usually expect from top-class professional systems.

The **1200W Class D SMPS amplifier** module, hosted in a fully sealed aluminum box, provides a massive amount of power in a surprisingly compact and lightweight package, raising the system's portability to a new standard.

For processing the V HDA the PROEL's R&D Lab has developed a new version of the proprietary **CORE DSP**, able to deliver ultimate performance to the system tuning. Thanks to accurate crossover and EQ filters, precise compressors/limiters for the dynamic control and delay lines for the time alignment, the CORE DSP provides a high-class signal management and the highest sound pressure level with the best sound quality.

The V HDA Series **comprehensive and intuitive control interface** features a single knob and a large LCD display for controlling the sound level and 2-band EQ. **5 presets** (MUSIC, LIVE, DJ, MONITOR, SPEECH) allow to tailor the system's sound in order to get always the best sound for all kind of applications. The CORE DSP includes also an intelligent **Dynamic EQ** with three different presets, able to adapt dynamically the sound equalization and to obtain always the best acoustic response at any signal level.

This impressive set of features and technology is packed into one of the most compact and lightweight package available in its class, combining maximum **portability** with top performance.

**CORE**  
PROCESSED



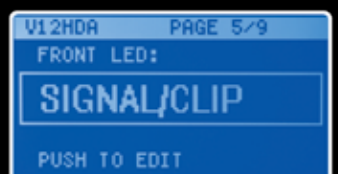
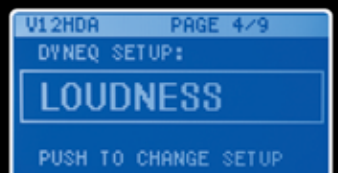
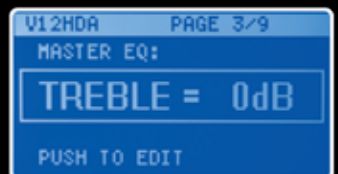
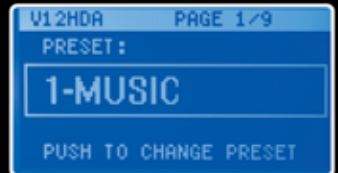
## V12HDA

- Bi-amplified DSP controlled 2-way system
- 1" CELESTION compression driver on a wide-dispersion 90° x 60° constant coverage horn
- 12" long-excursion woofer with 3" voice coil
- 1200 W total peak power amplifier
- SPL MAX 127 dB
- Frequency response 55 Hz - 20 kHz
- 15.5 kg TOTAL WEIGHT

## V15HDA

- Bi-amplified DSP controlled 2-way system
- 1" CELESTION compression driver with 1.4" VC on a wide-dispersion 90° x 60° constant coverage horn
- 15" long-excursion woofer with 3" voice coil
- 1200 W total peak power amplifier
- SPL MAX 128 dB
- Frequency response 45 Hz - 20 kHz
- 21 kg TOTAL WEIGHT

	V12HDA	V15HDA
<b>System type</b>	2-way vented enclosure	2-way vented enclosure
<b>High Frequency Device</b>	1" CELESTION compression driver	1" CELESTION compression driver with 1.4" VC
<b>Low Frequency Device</b>	12" woofer with 3" voice coil	15" woofer with 3" VC
<b>Angular Coverage</b>	90° H x 60° V	90° H x 60° V
<b>Total peak power</b>	1200 W	1200 W
<b>HF Amplifier Continuous Power</b>	100 W Class AB	100 W Class AB
<b>LF Amplifier Continuous Power</b>	500 W Class D	500 W Class D
<b>Power Supply</b>	SMPS	SMPS
<b>Processing</b>	CORE LT digital processor	CORE LT digital processor
<b>Frequency Response</b>	50 Hz - 20 kHz	45 Hz - 20 kHz
<b>Max SPL</b>	127	128
<b>Connectors</b>	LINE IN: COMBO, MIC IN: XLR F, LINK: XLR M	LINE IN: COMBO, MIC IN: XLR F, LINK: XLR M
<b>Controls</b>	LCD display, DIAL, GND LIFT	LCD display, DIAL, GND LIFT
<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>	15.5 kg	21 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**.

**New**

## 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

CORE PROCESSED

DSP MODE MUSIC LIVE DJ MON SPEECH

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

**New**

## 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



Ergonomic, ultra-comfortable  
aluminum handles for an effortless  
transportation

# Loudspeakers FLASH X SERIES



Compact, lightweight and ultra-durable PP injected cabinet

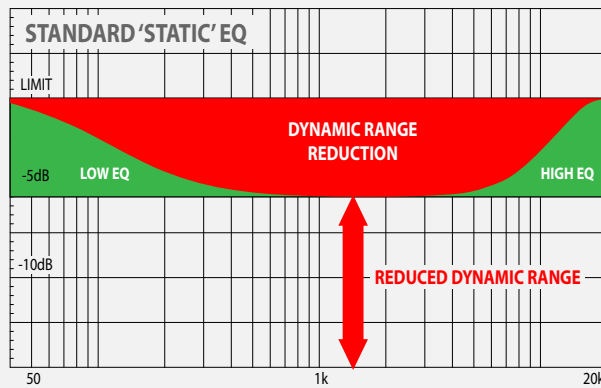


Versatile built-in 2-channel mixer with MIC and LINE inputs

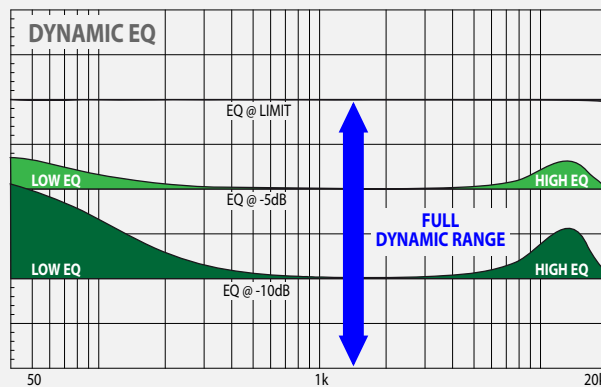


Symmetrical 42° wedge angle for stage monitoring

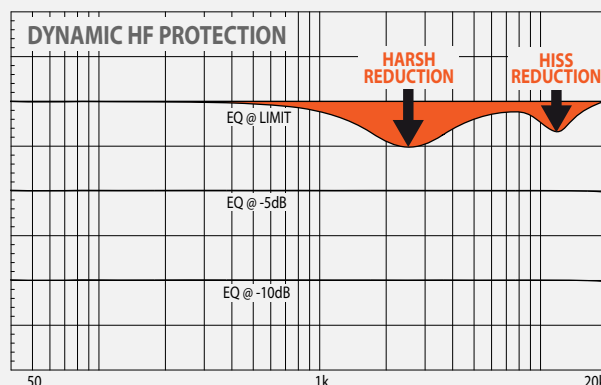
## CORE DSP - DYNAMIC EQ



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 - KPTFL12X



Brackets for FLASH8 - FLASH12

### KPTLTP



Bracket for FLASH8XP and FLASH12XP

# FLASH5AV2 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>	200 W	600 W	1000 W
<b>HF Amplifier Continuous Power</b>	20 W Class AB	50 W Class D	100 W Class AB
<b>LF Amplifier Continuous Power</b>	80 W Class D	250 W Class D	400 W 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 Rating (continuous)</b>	80 W	150 W	300 W
<b>Power Rating (peak)</b>	160 W	300 W	600 W
<b>Frequency Response</b>	80 Hz - 20 kHz	70 Hz - 20 kHz	60 Hz - 20 kHz
<b>Sensitivity</b>	91 dB @ 1 W/1 m	96 dB @ 1 W/1 m	99 dB @ 1 W/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



# 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.

The LT loudspeaker systems can be combined with the SW subwoofers, available in 5 models and capable of providing the perfect low frequency extension for each model of the series.

# 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

## 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	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

## KPTNX04



Universal Wall Mount for Brackets  
LT6 - LT8 - LT10 - LT12

## KPTLTP



Brackets for LT  
PASSIVE

## KPTLT6 - KPTLT8



Brackets for LT6 - LT8

## KPTLT10 - KPTLT12



Brackets for LT10 - LT12

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 Rating (continuous)</b>	75 W	150 W	200 W	300 W
<b>Power Rating (peak)</b>	150 W	300 W	400 W	600 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



# SW SERIES

The **SW Series** is a range of sub-woofers designed to complement PROEL full-range passive or active speakers. The **variety of size, power and SPL** offered by the five SW models provides the perfect low extension solution for any speaker model available in the PROEL range.

All the SW models feature **large VC woofers** and band-pass configuration, which provide **very 'punchy' and dynamic lows**, or vented design for a **deep and extended low frequency response**.

The **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 feature 2 or 3 metal handles and sturdy 75mm wheels for an easy transport (except SW110).





## SW118HAV2

- Active band-pass sub-woofer
- 18" die-cast CELESTION woofer with 4"VC for an extended response and very deep bass
- 2000 W peak power
- SPL MAX 131 dB
- Frequency response 34 Hz - 140 Hz



## SW115HAV2

- Compact active band-pass sub-woofer
- 15" CELESTION woofer with 3"VC for a very high pressure level and tight lows
- 1000 W peak power
- SPL MAX 128 dB
- Frequency response 37 Hz - 160 Hz



Lightweight and rugged plywood cabinets with sturdy 75mm wheels



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

# Loudspeakers SW SERIES



High-excursion, large VC woofers with very 'punchy' lows and an extended low frequency response



## SW118A

- Compact active vented sub-woofer
- 18" woofer with 3"VC for a deep and extended response
- 1000 W peak power
- STEREO input, link and output
- SPL MAX 129 dB
- Frequency response 36 Hz - 140 Hz
- Passive version available (SW118P)



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



## SW115AV2

- Compact active sub-woofer in BPS configuration (series-loaded band-pass)
- 15" woofer with 3"VC for a quick and dynamic response
- 700 W peak power
- SPL MAX 126dB
- Frequency response 40 Hz - 160 Hz
- Passive version available (SW115P)



Low-profile 10" model that fits perfectly in any fixed installation

## SW110AV2

- Very compact active band-pass sub-woofer for portable systems and fixed installations
- 10" woofer with 2 x 2.5" VC for a high output level and punchy lows
- 500 W peak power
- SPL MAX 122dB
- Frequency response 46 Hz - 160 Hz

ACTIVE	SW110A	SW115A	SW118A	SW115HAV2	SW118HAV2
<b>System type</b>	Bandpass enclosure subwoofer	BPS enclosure subwoofer	Vented enclosure subwoofer	BPS enclosure subwoofer	Bandpass enclosure subwoofer
<b>Loudspeaker</b>	10 woofer with 2x2.5 VC	15 woofer with 3 VC	18" woofer with 3 VC	15 woofer with 3 VC	18" woofer with 4 VC
<b>Amplifier Continuous Power</b>	250 W	350 W	500 W	500 W	1000 W
<b>Frequency Response</b>	46 Hz - 160 Hz	40 Hz - 160 Hz	36 Hz - 140 Hz	37 Hz - 160 Hz	34 Hz - 140 Hz
<b>Max SPL</b>	116 dB	126 dB	129 dB	128 dB	131 dB
<b>Connectors</b>	IN: 2 x NEUTRIK COMBO OUT: 2 x NEUTRIK XLR-M LINK: 2 x NEUTRIK XLR-M	IN: 2 x NEUTRIK COMBO OUT/LINK: 2 x JACK ¼", 2 x XLR-M	IN: 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-M	IN: 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, Phase	Volume, Stereo/Mono, Flat Out GND lift, X-over frequency, Phase	Volume, GND lift X-over Frequency, Phase	Volume, GND lift X-over Frequency, Phase	Volume, 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	230 VAC or 120 VAC 50/60 Hz
<b>Weight</b>	14 kg (30.8 lb)	27.5 kg (60.6 lb)	35.5 kg (78.3 lb)	29.5 kg (65 lb)	51 kg (70.6 lb)

PASSIVE	SW115P	SW118P
<b>Nominal Impedance</b>	8 Ω	8 Ω
<b>Power Handling (continuous)</b>	350 W	500 W
<b>Power Handling (peak)</b>	700 W	2000 W
<b>Frequency Response</b>	40 Hz - 160 Hz	36 Hz - 170 Hz (without filter)
<b>Sensitivity</b>	97 dB @ 1 W/1 m	98 dB @ 1 W/1 m
<b>Crossover Frequency</b>	160 Hz, 12 dB/oct LP - 6 dB/oct HP	suggested 120 Hz
<b>Connectors</b>	2 x NEUTRIK SPEAKON (IN/OUT)	2 x NEUTRIK SPEAKON (IN/LINK)
<b>Weight</b>	29 kg (63.9 lb)	34 kg (74.9 lb)

### GENERAL SPECIFICATIONS

	SW110A	SW115A	SW118A	SW115HAV2	SW118HAV2
<b>Cabinet</b>	15/18 mm plywood Black anti-scratch paint 1 handle 1 x pole socket	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 x steel handles 1 x pole socket 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 x steel handles 1 x pole socket 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 x steel handles 1 x pole socket 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 3 x steel handles 1 x pole socket 4 x 75 mm wheels
<b>Dimensions (W x H x D)</b>	520 x 330 x 350 mm	430 x 550 x 600 mm	520 x 660 x 640 mm	430 x 550 x 600 mm	595 x 700 x 700 mm



# 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 *New*

- 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 *New*

- 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 *New*

- 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 polyurethane finishing for maximum strength and durability

	WD10AV2	WD12AV2	WD15AV2
<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



# XEOS SERIES

**XEOS** is a series of **INSTALLATION speakers** including a selected number of surface-mount and ceiling models, designed for contractors and installers looking for a **wide choice of cost-effective, elegantly designed speakers with good quality sound**.

The elegant front baffle of the **three surface-mount models**, with a full protection grille and a new stylish and unobtrusive aluminum logo, allows these speakers (available in black or white) to **blend perfectly in any environment**. The **horn-loaded dome tweeters** and the **carefully designed crossover filters** provide a smooth and detailed response, suitable both for paging and background music applications. All the three models feature **built-in line transformers** and **C-shaped brackets** for an easy installation in vertical or horizontal position.

The **two square-shape 2-way ceiling models** provide hi-fidelity sound and feature a low impedance input, while the **round shape ceiling models** offer the choice of a versatile 5" full range or a high-quality 6.5" two-way solution.

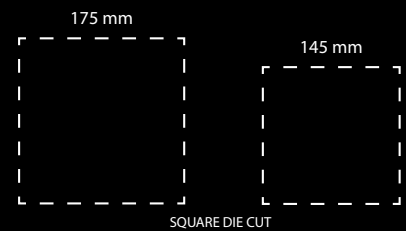
## XE35T - XE55T - XE65T

- 2 - way surface-mount systems
- 3.5", 5" and 6.5" polypropylene woofers
- Dome tweeter on elliptical waveguide
- Built-in 70V/100V line transformer with power taps
- Low impedance mode
- C-shape metal bracket
- Available in black or white



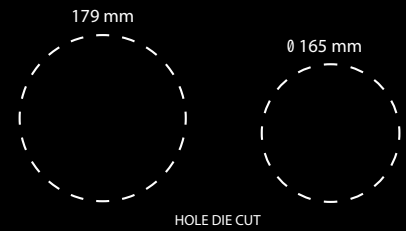
## XE65CT - XE51CT

- Round shape ceiling systems
- 5" full-range and 6.5" 2-way coaxial
- Built-in 100V line transformer
- Available in white



## XE65CTX - XE55CTX

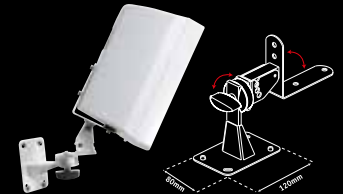
- Square shape 2-way coaxial ceiling systems
- 5" and 6.5" woofers
- Dome tweeter
- Built-in 70V/100V line transformer with power taps
- Low impedance mode
- Available in white



	XE35T	XE55T	XE65T	XE55CTX	XE65CTX	XE51CT	XE65CT
<b>System type</b>	2-way system	2-way system	2-way system	2-way system	2-way system	Full-range system	2-way system
<b>HF driver</b>	1" dome tweeter horn loaded	1" dome tweeter horn loaded	1" dome tweeter horn loaded	1" coaxial tweeter	1" coaxial tweeter	-	1" coaxial tweeter
<b>LF driver</b>	3.5" woofer	5" woofer	6.5" woofer	5" woofer	6.5" woofer	5" full-range	6.5" woofer
<b>Power</b>							
<b>Continuous</b>	15 W	30 W	40 W	30 W	40 W	10 W	20 W
<b>Peak</b>	30 W	60 W	80 W	60 W	80 W	20 W	40 W
<b>Nominal impedance</b>	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	-	-
<b>Line input</b>	70/100 V	70/100 V	70/100 V	70/100 V	70/100 V	100 V	100 V
<b>Connections</b>	Screw terminals	Screw terminals	2 x binding post	Wire terminals	Wire terminals	Wire terminals	Wire terminals
<b>Controls</b>	70/100 V voltage tap selector 8 ohm - 1/2/4/7.5/15 W power tap selector	70/100 V voltage tap selector 8 ohm - 1/2/5/10/30 W power tap selector	70/100 V voltage tap selector 8 ohm - 2/5/10/20/40 W power tap selector	70/100 V voltage tap selector 8 ohm - 1/2/5/15/30 W power tap selector	70/100 V voltage tap selector 8 ohm - 2/5/10/20/40 W power tap selector	2.5/5/10 W power tap selector	2.5/5/10/20 W power tap selector
<b>Frequency response (-10 dB)</b>	70-20 kHz	70-20 kHz	50-20 kHz	50-20 kHz	50-20 kHz	100-20 kHz	70-20 kHz
<b>SPL (1W/1m, 1 kHz)</b>	85 dB	87 dB	87 dB	87 dB	87 dB	90 dB	87 dB
<b>Weight (kg)</b>	1.8	2.7	3.7	1.3	1.7	1	1.2
<b>Dimensions (mm)</b>	130x198x130	181x240x172	217x288x204	170x170x63	200x200x77	Ø 191.5 - H 78	Ø 204 - H 85
<b>Mounting hole (mm)</b>	-	-	-	145x145	175x175	Ø 165	Ø 179
<b>Colour</b>	black XE35TB white XE35TW	black XE55TB white XE55TW	black XE65TB white XE65TW	white	white	white	white

## OPTIONAL ACCESSORIES

### KPTSP01WH - KPTSP01BK



Available for XE55T and XE65T  
in white (KPTSP01WH) or black (KPTSP01BK) color.

### COVER5X COVER6X



Metal accessories for installation  
RAL 9010 color

### SNBK - SNWH



ABS installation bracket  
for XE55T (black) - for XE55T (white)



# XENIA SERIES

XENIA is a series of speakers designed specifically for **high-profile installed sound applications** and featuring contemporary Italian styling and advanced technical solutions. The XENIA speakers utilize high-definition neodymium dome tweeters and high-efficiency woofers, together with carefully designed crossover filters, providing high-fidelity, full-range sound for a wide scope of installations where superior **audio quality** is a key requirement. All models include as a standard feature a 70/100 V line transformer and multiple voltage taps for a perfect integration in large distributed systems.

The surface-mount models are hosted in **injection molded high-impact ABS cabinets** featuring an innovative cosmetic design, which allows the sound system to blend perfectly into any stylish environment or decor. The use of fully sealed cabinets, polypropylene woofer cones and aluminum grilles make them suitable for the installation in outdoor venues (**IP55**).

The **innovative wall bracket** integrates the electrical connections and it can be pre-installed in the venue and connected to the sound system before placing the speakers. When the whole installation is completed, the speakers can be placed and connected in a flash just 'plugging' them into the bracket terminal. The speakers can also be secured using the provided steel safety wire. The XENIA wall bracket allows a **120° horizontal or vertical rotation**, providing the optimal coverage for any position in the venue.

The two **surface-mount** models suit a variety of installed sound system, offering a high-profile solution for paging and background music in small-size environments or full-range sound in bars, department stores and outdoor venues.

One **ceiling** and one **in-wall** model, featuring the same high-quality sound and stylish design, complete the series.



## X30T

- Passive two-way, wall-mount loudspeaker system
- High-definition dome tweeter on elliptical waveguide
- 3" woofer with PP cone
- Ultra-compact ABS cabinet with aluminum grille
- Built-in 70V / 100V line transformer
- 30W power handling
- 7W/15W/30W/8ohm power tap selector
- Wall bracket with 120° horizontal/vertical rotation and integral connections
- Available in black and white color
- Weather-proof IP55
- For paging and background music in environments (shops, restaurants, offices, etc.) requiring unobtrusive, small size speakers able to provide a good SPL and a high-quality sound



## X50T

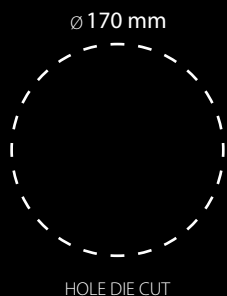
- Passive two-way, wall-mount loudspeaker system
- High-definition dome tweeter on elliptical waveguide
- 5" woofer with PP cone
- Compact ABS cabinet with aluminum grille
- Built-in 70V / 100V line transformer
- 60W power handling
- 12W/25W/50W/8ohm power tap selector
- Wall bracket with 120° horizontal/vertical rotation and integral connections
- Available in black and white color
- Weather-proof IP55
- Ideal for applications requiring a full-range sound in a limited space: bars, pubs, department stores and outdoor venues. Delivers an extended response with deep lows and clean, well-defined highs



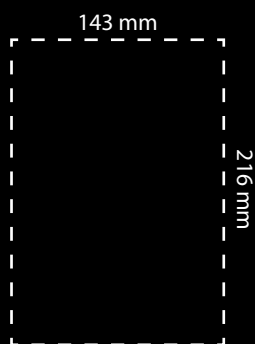
- 1 One-piece ABS cabinet for a better strength and acoustic rigidity
- 2 Aluminum weather-proof grille
- 3 Contemporary and stylish design
- 4 High-definition dome tweeter
- 5 High-efficiency woofer with polypropylene weatherproof cone
- 6 Crossover filter with selected components and high quality line transformers
- 7 Wall bracket with integral connections, 120° horizontal and vertical rotation and safety wire



# Loudspeakers XENIA SERIES



**INWALL05P**



## X50CT

- Passive two-way coaxial ceiling loudspeaker system
- 1/2" high-fidelity tweeter
- 5" woofer
- ABS cabinet
- Built-in 100V line transformer
- 20W power handling
- 2.5W/5W/10W power tap selector
- Available in white color
- For high-quality paging and background music diffusion



## X50IWT

- Passive two-way in-wall mount loudspeaker system
- High-definition dome tweeter on elliptical waveguide
- 5" woofer with PP cone
- ABS cabinet
- Built-in 100V line transformer
- 40W power handling
- 8W/15W power tap selector
- Available in white color
- Optional INWALL05P plastic box available for flush-mounting, provides a quick and easy mounting system and a closed rear cabinet for an improved sonic performance
- For top performance and high quality sound with a minimal visual impact



	X30T	X50T	X80T	X50IWT	X50CT
<b>Speakers</b>					
<b>HF</b>	1" neodymium soft dome horn loaded tweeter			1" neodymium soft dome tweeter	1/2" tweeter
<b>LF</b>	3" woofer	5" woofer	8" woofer	5" woofer	5" woofer
<b>Power</b>					
<b>nominal</b>	15W	30W	50W	20W	10W
<b>max</b>	30W	60W	100W	40W	20W
<b>Nominal impedance</b>	8 ohm	8 ohm	8 ohm	-	-
<b>Line input</b>	70/100V	70/100V	70/100V	100V	100V
<b>Connections</b>	Integral connections included in the bracket (wire terminals)	Integral connections included in the bracket (wire terminals)	2 x binding post	wire terminals	wire terminals
<b>Controls</b>	70/100V voltage tap selector 8ohm - 8/15/30W power tap selector	70/100V voltage tap selector 8ohm - 12/25/50W power tap selector	70/100V voltage tap selector 8ohm - 25/50/100W power tap selector	8/15W power tap selector	2.5/5/10W power tap selector
<b>Frequency response (-10 dB)</b>	100-20k Hz	80-20k Hz	75-20k Hz	85-20k Hz	95-20k Hz
<b>SPL (1W/1m, 1 kHz)</b>	87 dB	90 dB	91 dB	90 dB	91 dB
<b>Dimensions (mm)</b>	12.5x19.3x12	17x28x17.5	25x42x25	17x24x8	∅ 190 - H 8
<b>Weight (kg)</b>	1.3	2.3	4.6	1.7	1.3
<b>Mounting Hole (mm)</b>	-	-	-	143x216	∅ 170
<b>Colour</b>	black X30TB white X30TW	black X50TB white X50TW	black X80TB white X80TW	-	-

## PA AMP160XL

New

- Constant Voltage Mixer Amplifier
- 4 MIC/LINE balanced inputs with VOX priority function
- CHIME function selectable for each input
- 3 AUX switchable inputs
- Bass and Treble tone controls
- 160W power amplifier with 100V/70V/4 ohm output
- Euroblock terminals
- 230/117V~ 50/60Hz autoswitch power supply
- 1U 19" rack format



## PA AUP160D

New

- Constant Voltage Power Amplifier
- Bass and Treble tone controls
- 160W power amplifier with 100V/70V/4 ohm output
- Euroblock terminals
- 230/117V~ 50/60Hz autoswitch power supply
- 1U 19" rack format



## PA ATMP160XL

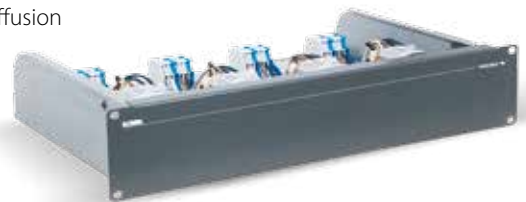
New

- Constant Voltage Combo Receiver
- 4 MIC/LINE balanced inputs with VOX priority function
- CHIME function selectable for each input
- 3 AUX switchable inputs
- USB/SD MMC, BLUETOOTH integrated multimedia module and
- Digital AM/FM tuner
- Bass and Treble tone controls
- 160W power amplifier with 100V/70V/4 ohm output
- Euroblock terminals
- 230/117V~ 50/60Hz autoswitch power supply
- 2U 19" rack format



## TRL

- Constant voltage (70V/100V) transformers
- Allow installation of constant voltage speakers in applications using constant voltage diffusion
- To be inserted between the amplifier outputs and the speaker line
- 19" rack mountable
- TRL150.4: four auto-transformers with 150 W input power each
- TRL300.2: two auto-transformers with 300 W input power each
- T2W1000: two auto-transformers with 1000 W input power each





# EIKON SERIES

EIKON is a series of **nearfield studio monitors** designed by PROEL R&D team in order to provide to your music the most honest and accurate reference possible.

From the carefully selected transducers to the **proprietary enhanced waveguides** and to the low-resonance cabinet design, everything has been tailored with hours of listening in order to offer the best **accuracy** over the whole audio spectrum.

The **perfectly optimized electronics**, including high-headroom separate Class AB amplifiers for high and low section, high-precision crossover networks and separate LIMITER circuits, provide maximum resolution and minimum listening fatigue.

The lineup includes **three models**, featuring 5.25", 6" and 8" woofers, and a 10" **subwoofer**, offering the ideal nearfield monitor solution for any kind of music production applications: recording studios, home and project studios, broadcast studios, post-production facilities, mobile production vehicles, home theater, multimedia installations.



**Soft-dome tweeter** for detailed response and a high-resolution sound, with clean and natural high frequencies

Proprietary integrated **elliptical waveguide** with accurate directivity control, providing a wide and consistent 'sweet spot' (optimal listening position)

Long-excursion woofer with lightweight **fiber-glass composite** cone, featuring very extended response with well-defined bass and accurate mids

Precisely calculated front tuning port for greater **low-frequency extension**

**Multiple audio input connectors** (XLR, 1/4", RCA) for simple connections to any kind of source

**HF adjustment** for a flexible control of high frequency response according to personal taste or room characteristics

**High-headroom** Class AB amplifiers with dual accurate CLIP LIMITER, guaranteeing a high-output, ultra-clean sound with no distortion

Sophisticated, **carefully designed crossover** filters for a smooth response and an improved resolution



# Loudspeakers EIKON SERIES



## EIKON 5

- Bi-amplified 2-way system
- 0.75" silk dome tweeter on constant dispersion elliptical waveguide
- 5.25" woofer with fiberglass reinforced cone
- 15 W continuous CLASS AB amplifier for the high frequencies
- 30 W continuous CLASS AB amplifier for the low frequencies
- SPL MAX 104 dB
- Frequency response 55 Hz - 20 kHz



## EIKON 6

- Bi-amplified 2-way system
- 1" silk dome tweeter on constant dispersion elliptical waveguide
- 6.5" woofer with fiberglass reinforced cone
- 20 W continuous CLASS AB amplifier for the high frequencies
- 50 W continuous CLASS AB amplifier for the low frequencies
- SPL MAX 106 dB
- Frequency response 50 Hz - 20 kHz



## EIKON 8

- Bi-amplified 2-way system
- 1" silk dome tweeter on constant dispersion elliptical waveguide
- 8" woofer with fiberglass reinforced cone
- 20 W continuous CLASS AB amplifier for the high frequencies
- 70 W continuous CLASS AB amplifier for the low frequencies
- SPL MAX 109 dB
- Frequency response 45 Hz - 20 kHz





## EIKON 10S

- Active vented sub-woofer
- 10" woofer with PP cone
- 150 W continuous CLASS AB power amplifier
- Stereo balanced 1/4" JACK and XLR-F inputs
- Stereo balanced XLR-M outputs plus balanced XLR-M link
- Optimized crossover design
- HI-CUT and LO-CUT frequency control
- VOLUME and PHASE control
- CLIP LIMITER
- SPL MAX 110 dB
- Frequency response 40 Hz - 150 kHz
- Laminated MDF cabinet with MDF front panel

	EIKON 5	EIKON 6	EIKON 8	EIKON 10S
<b>System type</b>	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	Vented sub-woofer
<b>High Frequency Device</b>	0.75" dome tweeter on elliptical waveguide	1" dome tweeter on elliptical waveguide	1" dome tweeter on elliptical waveguide	
<b>Low Frequency Device</b>	5.25" woofer with fiberglass reinforced cone	6.5" woofer with fiberglass reinforced cone	8" woofer with fiberglass reinforced cone	10" woofer with PP cone
<b>Angular Coverage</b>	90° H x 60° V	90° H x 60° V	90° H x 60° V	
<b>HF Amplifier Continuous Power</b>	15W Class AB	20W Class AB	20W Class AB	
<b>LF Amplifier Continuous Power</b>	30W Class AB	50W Class AB	70W Class AB	150W Class AB
<b>Processing</b>	Analog	Analog	Analog	Analog
<b>Frequency Response</b>	55 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz	40 Hz - 150 Hz
<b>Max SPL</b>	104 dB	106 dB	109 dB	110 dB
<b>Connectors</b>	1/4" JACK, XLR-F, RCA	1/4" JACK, XLR-F, RCA	1/4" JACK, XLR-F, RCA	1/4" JACK, XLR-F (stereo INPUT), XLR-M (stereo OUTPUT), XLR-M (LINK)
<b>Controls</b>	LEVEL, HF ADJUST	LEVEL, HF ADJUST	LEVEL, HF ADJUST	LEVEL, HI-CUT & LO-CUT frequency selector, PHASE
<b>Cabinet Material</b>	Vinyl laminated MDF cabinet with ABS front	Vinyl laminated MDF cabinet with ABS front	Vinyl laminated MDF cabinet with ABS front	Vinyl laminated MDF cabinet with MDF front
<b>Cabinet Colour</b>	Black	Black	Black	Black
<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	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
<b>Dimensions (W x H x D)</b>	185 x 285 x 230 mm	225 x 320 x 270 mm	265 x 380 x 305 mm	330 x 365 x 365 mm
<b>Weight</b>	5 kg	8 kg	10 kg	15.3 kg



## OPTIONAL ACCESSORIES

### EIKONPAD5 - EIKONPAD6 - EIKONPAD8



Isolators for nearfield studio monitors



**MUSIC EXPRESSES THAT  
AND ON WHICH IT IS IM**





**WHICH CANNOT BE SAID  
POSSIBLE TO BE SILENT**

**(Victor Hugo)**



# 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 *New*

- 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 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
<b>SPEAKERS</b>	
<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°
<b>AMPLIFIER</b>	
<b>Type</b>	Class D with SMPS
<b>System Power Rating</b>	300 Watts LF, 2x100 Watts HF Continuous, 1000W 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 24bit / 48kHz CORE DSP 2-band EQ Selectable CONFIGURATION and EQ PRESETS Digital Limiting
<b>Processing</b>	Bluetooth built-in receiver
<b>Wireless Audio</b>	Bluetooth built-in receiver
<b>GENERAL SPECIFICATIONS</b>	
<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

## INCLUDED ACCESSORIES

## OPTIONAL ACCESSORIES



Pole in two pieces



4-wire speakon cable



SAT cover



CHL325LU10



FRE300BK



COVERSESSION4



Two built-in compartments for hosting the tops



# 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

## 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 250W @ 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>	400W	



FREEPACK6SLT

MAIN MIX

PRESETS

FX  
DIGITAL MULTI EFFECT

1

2

CLIP

CLIP

LEVEL

LEVEL

HIGH

HIGH

LOW

LOW

TREBLE

TREBLE

PAD

PAD

MIC

MIC

LINE

LINE

1

2







# FREEPACK

**FREEPACK** are **all-in-one, luggage-style sound systems** 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**.

The **three available FREEPACK models** 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 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**.

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

# Portable Systems FREEPACK



## FREEPACK812

- All-in-one luggage-style sound system with two speakers, power mixer and media player
- 6 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
- 2x10-LED VU-METER
- AMP INSERTS and SUB OUT
- Dual 500W CLASS D power amplifier with SMPS
- 2-way speakers with 1" horn-loaded compression driver and 8x12" elliptical woofer
- 2 x 7.5mt. PROEL power cables with metal ¼" JACK
- Convenient accessory compartment



Built-in mixer with a full set of features and an advanced MP3 player



## FREEPACK65

- All-in-one luggage-style sound system with two speakers, power mixer and media player
- 7 MIC/LINE MONO inputs
- 1 LINE STEREO input
- 2-band channel EQ
- 16-preset DIGITAL MULTIEFFECT
- MP3 player with USB/SD slot and LCD display
- 2x9-LED VU-METER
- 2-TRACK and PRE-AMP out
- Dual 250W CLASS D power amplifier with SMPS
- 3-way speakers with 1" compression driver, 2x3" midrange and 2x6.5" woofer
- 2 x 7.5mt. PROEL power cables with metal ¼" JACK
- Convenient accessory compartment



Powerful and lightweight CLASS D amplifiers with SMPS

# 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 ¼" JACK
- 2x12 rechargeable batteries
- Convenient accessory compartment



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

	FREEPACK65LT	FREEPACK65	FREEPACK812
<b>MIXER SECTION</b>			
<b>MONO inputs</b>	(2) MIC IN + LINE IN (XLR F + JACK)	(7) MIC IN + LINE IN (COMBO)	(6) MIC IN + LINE IN (COMBO)
<b>STEREO inputs</b>	(2) LINE IN (mini-jack + JACK / 2xRCA)	(1) LINE IN (mini-jack / 2xRCA)	(2) LINE IN (JACK or ST. JACK + 2xRCA)
<b>Input EQ</b>	HIGH: +/-15dB 10 kHz, LOW: +/- 15dB 100 Hz	HIGH: +/-15dB 10 kHz, LOW: +/- 15dB 100 Hz	HIGH: +/-12dB 10 kHz, LOW: +/- 12dB 100 Hz
<b>Internal Effect</b>	16 presets DIGITAL multieffect with 1 parameter	16 presets DIGITAL multieffect with 1 parameter	16 presets DIGITAL multieffect with 1 parameter
<b>Outputs</b>	PRE-AMP OUT (2xJACK), REC OUT (2xRCA) AUX OUT (JACK) SPEAKER OUT (2xJACK)	PRE-AMP OUT (2xJACK), REC OUT (2xRCA) SPEAKER OUT (4xJACK MAIN + MON)	PRE-AMP OUT (2xJACK), REC OUT (2xRCA) SPEAKER OUT (4xJACK MAIN + MON)
<b>Metering</b>	1x4-LED VU-METER	2x6-LED VU-METER	2x10-LED VU-METER

	FREEPACK65LT	FREEPACK65	FREEPACK812
<b>MULTIMEDIA SECTION</b>			
<b>Player Type</b>	USB / SD memory slot	USB / SD memory slot	USB / SD memory slot /BLUETOOTH
<b>Compatible File Formats</b>	MP3 / WAVE	MP3 / WAVE	MP3
<b>Control Interface</b>	LCD display	LCD display	LCD display

	FREEPACK65LT	FREEPACK65	FREEPACK812
<b>AMPLIFIER SECTION</b>			
<b>Amplifier Type</b>	Class D with SMPS (Switch Mode Power Supply)	Class D with SMPS (Switch Mode Power Supply)	Class D with SMPS (Switch Mode Power Supply)
<b>Maximum Output Power</b>	2 x 75 W @ 4 ohm (1 KHz, 1% THD)	2 x 250 W @ 4 ohm (1 KHz, 1% THD)	2 x 500 W @ 4 ohm (1 KHz, 1% THD)
<b>Frequency Response</b>	20 Hz - 20 KHz	20 Hz - 20 KHz	20 Hz - 20 KHz

	FREEPACK65LT	FREEPACK65	FREEPACK812
<b>LOUDSPEAKER SECTION</b>			
<b>Loudspeaker System</b>	2-way system vented	3-way system vented	2-way system vented
<b>High Frequency Device</b>	2 x 3" tweeter	1" dome tweeter 1" VC	1" horn-loaded compression driver
<b>Mid Frequency Device</b>		2x3" midrange with 0.75" VC	
<b>Low Frequency Device</b>	1x6.5" woofer with 1.35" VC	2x6.5" woofer with 1.35" VC	8x12" elliptical woofer
<b>Angular Coverage</b>	100° H x 80° V	100° H x 80° V	90° H x 60° V
<b>Impedance</b>	8 ohm	8 ohm	8 ohm
<b>Frequency Response</b>	90 Hz - 20 kHz (-10 dB)	75 Hz - 20 kHz (-10 dB)	50 Hz - 20 kHz (-10 dB)
<b>SPL 1W 1m</b>	92 dB	90 dB	96 dB
<b>Cabinet Material</b>	Black polypropylene, metal grille	Black polypropylene, metal grille	Black polypropylene, metal grille
<b>Handles</b>	1 top	1 top	1 top
<b>Pole Socket</b>	1 bottom	1 bottom	1 bottom

	FREEPACK65LT	FREEPACK65	FREEPACK812
<b>GENERAL SPECIFICATIONS</b>			
<b>Dimensions</b>	System: 56.5x44x19.6 mm Speaker: 20x42x19 mm Mixer: 35.2x44x19.6 mm	System: 73x21.5x55.5 cm Speaker: 53.5x21.5x27.5 cm Mixer: 73x21.5x36 cm	System: 81x24.5x61 cm Speaker: 31.5x24.5x57.5 cm Mixer: 41x24.5x61 cm
<b>Weight</b>	System: 17 kg / Speaker: 6.1 kg / Mixer: 4.8 kg	System: 22.5 kg / Speaker: 8 kg / Mixer: 6.5 kg	System: 28 kg / Speaker: 9 kg / Mixer: 10 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	230 VAC / 120 VAC (switchable) 50/60 Hz	230 VAC / 120 VAC (switchable) 50/60 Hz
<b>Power consumption</b>	300 W	300 W	700 W



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 an **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 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.



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



Built-in LED flashlight



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



## 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-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



## FR10LTKITB



## FR10LTKITH



	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



# ALPHABETICAL INDEX

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# ALPHABETICAL INDEX

CODE	PAGE	CODE	PAGE	CODE	PAGE
CHL325LU10	75	FREEPASS10USB	79	Mi6	7
CMMLX2842	17	FREEPASS6	77	MLX2842	16
CMMLX3642	17	FREEPASS8USB	79	MLX3642	16
COVER5X	63	GF29	14	PA AMP160XL	67
COVER6X	63	HPAMP104	25	PA ATMP160XL	67
COVERFL12X	49	HPAMP106	26	PA AUP160D	67
COVERFL8X	49	HPD2004	35	PC260	29
COVERSESSION4	75	HPD4004	35	PHANTOM100	24
COVERV10	43	HPX1200	33	PSU110	26
COVERV12	43	HPX2400	33	SDC670PRO	14
COVERV15	43	HPX2800	33	SESSION4	75
COVERV8	43	HPX4600	33	SNBK	49-63
COVERWD10V2	61	HPX6000	33	SNWH	49-63
COVERWD12V2	61	HPX8000	33	SPLIT100	25
COVERWD15V2	61	HPX900	33	SW110AV2	59
CPWD10V2	61	INWALLO5P	66	SW115AV2	58
CPWD12V2	61	KPTFL12X	49	SW115HAV2	57
CPWD15V2	61	KPTFL5	49	SW118A	58
DB1A	21	KPTFL5W	49	SW118HAV2	57
DB1P	21	KPTFL8X	49	TRL	67
DB2A	21	KPTLT10	55	TUBE1000USB	26
DIRECT100A	24	KPTLT12	55	USBLLO2	17
DIRECT100P	24	KPTLT6	55	V10A	42
DPX1000	31	KPTLT8	55	V12A	43
DPX1500	31	KPTLTP	49-55	V12HDA	45
DPX2000	31	KPTNX04	43-55	V15A	43
EIKON 10S	71	KPTSP01BK	63	V15HDA	45
EIKON 5	70	KPTSP01WH	63	V8A	42
EIKON 6	70	KPTV10	43	WAVE10A	39
EIKON 8	70	KPTV12	43	WAVE10P	39
EIKONPAD5	71	KPTV15	43	WAVE12A	39
EIKONPAD6	71	KPTV8	43	WAVE12P	39
EIKONPAD8	71	LT10A	52	WAVE15A	39
FLASH12XD	47	LT10P	52	WAVE15P	39
FLASH12XP	47	LT12A	53	WD10AV2	61
FLASH5AV2	49	LT12P	53	WD12AV2	61
FLASH5PV2	49	LT15A	53	WD15AV2	61
FLASH8XD	47	LT215A	53	X30T	65
FLASH8XP	47	LT6A	52	X50CT	66
FR10LTKITB	88	LT6P	52	X50IWT	66
FR10LTKITH	88	LT812A	54	X50T	65
FR6LTKITB	88	LT8A	52	XE35T	63
FRE300BK	75	LT8P	52	XE51CT	63
FREE10LT	86	M1622USB	13	XE55CTX	63
FREE5LT	87	M602FX	12	XE55T	63
FREE6LT	86	M822USB	12	XE65CT	63
FREE8LT	87	Mi10	8	XE65CTX	63
FREEPACK65	82	Mi12	8	XE65T	63
FREEPACK65LT	83	Mi16	9		
FREEPACK812	82	Mi5	7		

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