

Sound Systems



PROEL

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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 new **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 new **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

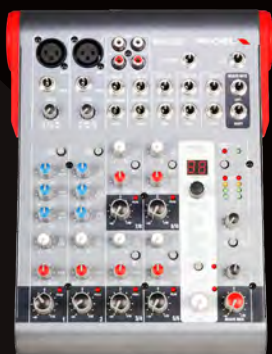


High-quality **24bit DSP** with
16 single and combined
studio-grade effects



High-headroom,
low-noise MIC
preamps

Mixers **Mi** SERIES



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



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



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



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
MONO INPUT CHANNEL							
Mic Input	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	
Line Input	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	
Lo cut				75Hz, 18dB/oct.	75Hz, 18dB/oct.	75Hz, 18dB/oct.	
EQ	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	
STEREO INPUT CHANNEL							
Line Input	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	
EQ	HIGH (shelving)					±15 dB @ 12KHz	
	LOW (shelving)					±15 dB @ 80Hz	
MASTER SECTION							
MAIN MIX	nom. out level	+4 dBu	+4 dBu	+4 dBu	+4 dBu	+4 dBu	Balanced JACK (Mi16) Balanced XLR-M
C. ROOM output	nom. out level			0 dBu	0 dBu	0 dBu	Unbalanced JACK
AUX output	nom. out level			0 dBu	0 dBu	0 dBu	Unbalanced JACK
2TRK	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
HEADPHONES	min. impedance	32 ohm	32 ohm	32 ohm	32 ohm	32 ohm	Stereo JACK
	max. out level	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	
PROFEX DIGITAL EFFECT PROCESSOR (not available for Mi6)							
Effects		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				
A/D and D/A converters		24 bit		24 bit			
DSP resolution		24 bit		24 bit			
Controls		16-position rotary switch, PEAK LED, MUTE switch		2-DIGIT display, DIAL, PEAK LED, MUTE and TAP DELAY switch			
GENERAL SPECIFICATIONS							
Maximum level	all outputs	+22 dBu					
Crosstalk	meas. at 1 KHz	> 82 dBu					
HUM & Noise	unweighted	< -93 dBu					
THD + Noise	at +4dB, 1kHz	< 0,008 %					
Dimensions (WxHxD)		173x222x60 mm	173x222x60 mm	200x266x60 mm	254x302x60 mm	420 x 368 x 87 mm	
Weight		1.00 kg	1.00 kg	1.50 kg	2.00kg	3.80 kg	
POWER REQUIREMENTS							
Supply		18 VAC 500 mA (use only supplied AC/AC ADAPTER)					
Mains Supply Voltage:		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)					
Consumption		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



USB interface with full IN & OUT ROUTING capability



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



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

OPTIONAL ACCESSORIES

SDC670PRO

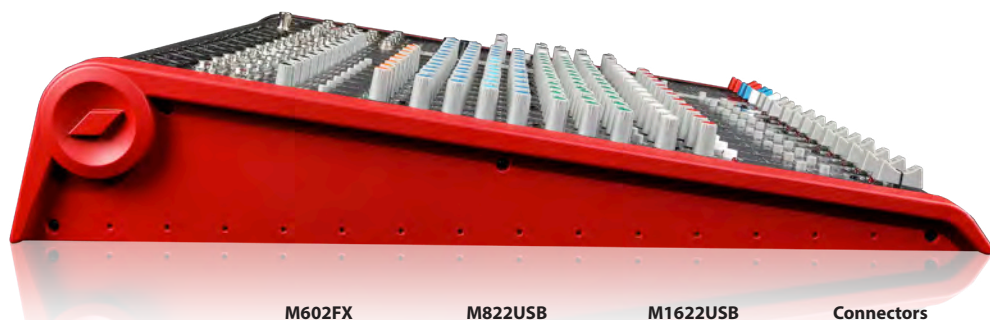


Optional LED lamp with BNC connector

GF29



Optional footswitch



		M602FX	M822USB	M1622USB	Connectors
MONO INPUT CHANNEL					
Mic Input	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	
Line Input	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	
Lo cut			75Hz, 18dB/oct.	75Hz, 18dB/oct.	
EQ	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	
Compressor				CH 1-8, 1 control	
STEREO INPUT CHANNEL					
Mic Input	sensitivity	from -0 to -40dB	from -0 to -40dB	from -0 to -40dB	Balanced XLR-F
	impedance	2 Kohm	2 Kohm	2 Kohm	
Line Input	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	
EQ	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	
MASTER SECTION					
MAIN MIX	nom. out level	+4 dBu	+4 dBu	+4 dBu	Balanced JACK (M602FX) Balanced XLR-M
MAIN MIX insert	nom. out level			0 dBu	TRS JACK
Graphic EQ				7-band	
C. ROOM output	nom. out level	0 dBu	0 dBu	0 dBu	Unbalanced JACK
ALT 3 - 4 output	nom. out level		0 dBu	0 dBu	Unbalanced JACK
GROUP output	nom. out level			+4 dBu	Balanced JACK
AUX output	nom. out level	0 dBu	0 dBu	0 dBu	Unbalanced JACK
2TRK	nom. out level	0 dBu	0 dBu	0 dBu	Unbalanced RCA
	nom. in level	0 dBu	0 dBu	0 dBu	Unbalanced RCA
HEADPHONES	min. impedance	32 ohm	32 ohm	32 ohm	
	max. out level	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	Stereo JACK
USB			Stereo IN/OUT 16-bit converter, 48 KHz sample rate	Stereo IN/OUT 16-bit converter, 48 KHz sample rate	Type B
PROFEX DIGITAL EFFECT PROCESSOR					
Effects		256 (16 presets x 16 variations): HALL, ROOM, VOCAL and PLATE reverbs; STEREO and MONO TAP DELAY; REV + DELAY, REV + TAP DELAY, REV + CHORUS			
A/D and D/A converters		24 bit			
DSP resolution		24 bit			
Controls		2-DIGIT display, DIAL, PEAK LED, MUTE and TAP DELAY switch, MUTE and TAP DELAY footswitch			
GENERAL SPECIFICATIONS					
Maximum level	all outputs	+22 dBu			
Crosstalk	meas. at 1 KHz	> 82 dBu			
HUM & Noise	unweighted	< -93 dBu			
THD + Noise	at +4dB, 1kHz	< 0,008 %			
Dimensions (WxHxD)		240 x 85 x 272 mm	315 x 91 x 363 mm	465 x 91 x 462 mm	
Weight		1,80 kg	3,40 kg	6,50 kg	
POWER REQUIREMENTS					
Supply		18 VAC 500 mA (use only supplied AC/AC ADAPTER)	Internal power supply		
Mains Supply Voltage:		110-120 VAC (±10%) 50 / 60 Hz (US 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)		
		230-240 VAC (±10%) 50 / 60 Hz (EU plug)			
		240 VAC (±10%) 50 / 60 Hz (UK plug)			
Consumption		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.

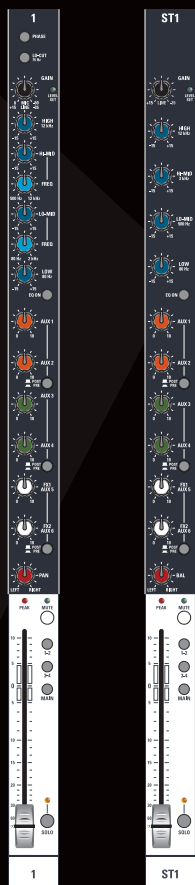
The MLX series features a built-in **USB interface** to get CD quality audio to and from your computer: thru the USB interface you can play audio files from the PC or record your live performance directly on hard-disk. The MLX USB interface offers the possibility to **route** the INPUT signal directly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

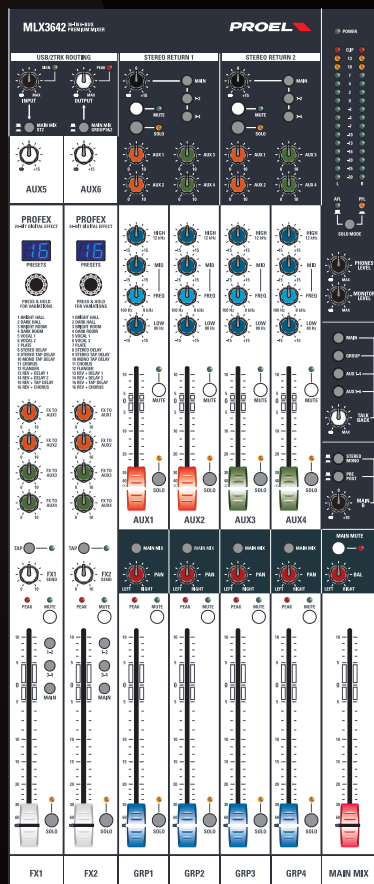
The **intuitive control surface layout** and the color-coded ergonomic knobs of MLX mixers allow to locate easily each function and makes them extremely easy to use. Both models are hosted in a rugged and road-proof metal chassis.

Mixers **MLX SERIES**

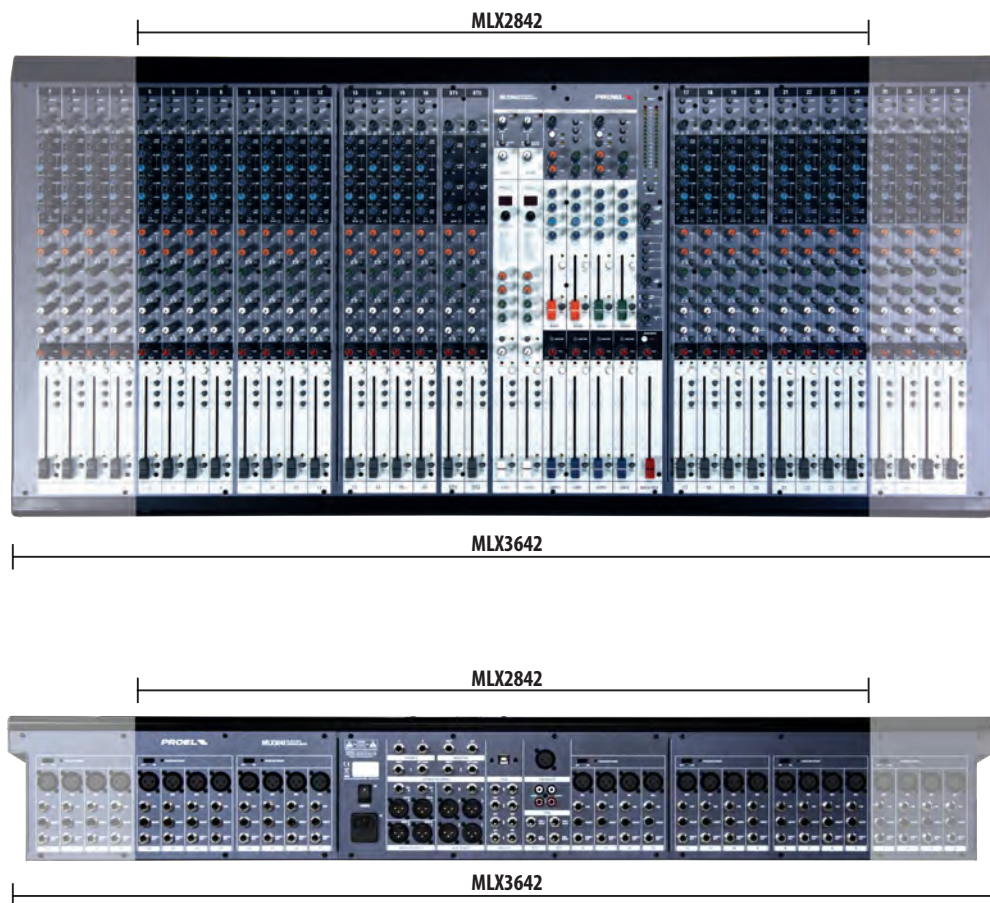
CHANNELS



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

OPTIONAL ACCESSORIES

CMMLX2842



Flight Case for MLX2848

CMMLX3642



Flight Case for MLX3642

USBLL02



USB LED lamp

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 48 V phantom power from the mixing console, by a 9 V battery or, in large applications using many DI BOXES, by an external 9 V 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
System Type	1-channel active DI BOX	2-channel active DI BOX	1-channel passive DI BOX
INPUT SECTION			
Input Impedance	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)
Max Input Level	+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)
Connectors	Two Parallel 1/4" jack connectors and a parallel XLR connector (unbalanced) Jack: Tip Hot / Sleeve Ground XLR female: Pin 2 Hot / Pin1 & 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
OUTPUT SECTION			
Output	Transformer Balanced (fully isolated)	Active discrete devices (transformer less)	Transformer Balanced (isolated with shielding)
Max. Output Level	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)
Connector	XLR male: Pin 2 Hot / Pin 3 Cold / Pin1 Ground	XLR male: Pin 2 Hot / Pin 3 Cold / Pin1 Ground	XLR male: Pin 2 Hot / Pin 3 Cold / Pin1 Ground
System Performance			
Insertion loss	< 1 dB	< 1 dB	20 dB
CMR	> 60 dB	> 50 dB	> 100 dB
Phase distortion	+11° at 20 Hz, -6° at 20k Hz	+20° at 20 Hz, -30° at 20k Hz	0° at 20 Hz, 0° at 20k Hz
Distortion THD 20÷20k Hz 0dBu	< 0.007 %	< 0.007 %	< 0.007 %
Noise	< -105 dBu unweighted	< -105 dBu unweighted	< -105 dBu unweighted
Frequency Response	10 Hz to 100 kHz, +0dB/-1 dB	10 Hz to 40 kHz, +0dB/-1 dB	10 Hz to 100 kHz, +0dB/-1 dB
Controls	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)
Indicators	On, signal, clip	On	-
GENERAL			
Phantom Power	+24 volts DC to +48 volts DC	+24 volts DC to +48 volts DC	-
External AC/DC adapter	+9 volts DC	+9 volts DC	-
Standalone/Standby	9 volt PP3 type, battery preferably alkaline	9 volt PP3 type, battery preferably alkaline	-
Current consumption	less than 8 mA	less than 8 mA	-
Dimensions (W x H x D)	215 x 50 x 125 mm	215 x 50 x 125 mm	215 x 50 x 125 mm
Weight (excluding batteries)	1.08 kg (2.38 lb)	1.06 kg (2.34 lb)	1.04 kg (2.29 lb)



100 SERIES

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

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



DIRECT100A

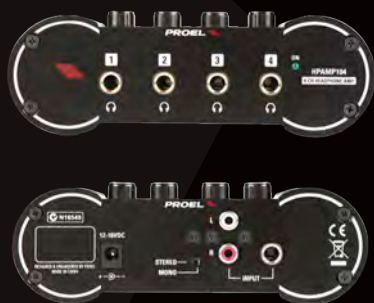
- Active Direct Injection Box
- High quality isolation transformer for ultra-flat frequency response
- Low-noise OP amps with high-quality sound performance
- XLR-F and 1/4" JACK input connectors + 1/4" JACK link
- XLR-M balanced output
- 20dB PAD and GND lift switch
- Stackable aluminum shell



DIRECT100P

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





HPAMP104

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



HPAMP106

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

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

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

PC SERIES

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

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

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

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

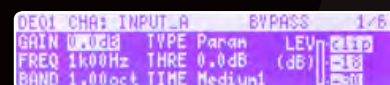
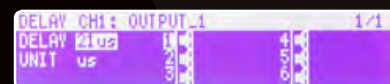
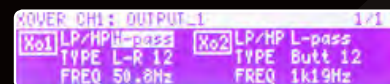


PC260

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

PC260

INPUT SECTION	
Inputs	2 electronically balanced - XLR F (IN) + XLR M (LINK)
Input Impedance	> 10k ohms
Maximum Input Level	+20dBu (-6dB pad)
Input gain	+6 dB to -30 dB in 0.2 dB steps
Digital Input	AES/EBU
OUTPUT SECTION	
Outputs	6 - XLR M
Maximum Output Level	+20dBu
Output Gain	+15 dB to -30 dB in 0.2 dB steps and mute
CROSSOVER FILTERS	
Slopes	6/12/18/24/48dB per octave
Type	Bessel / Butterworth / Linkwitz-Riley
DELAYS	
Max Delay time	600 ms on all In and Out
Delay Step	21 μ 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	\pm 1/2 dB 20 Hz~20 kHz
Dynamic range	>110 dB 20 Hz~20 kHz unwt'd
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



USB2CAN-D



Dual-output USB to CAN converter



DPX SERIES

DPX is a new 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.

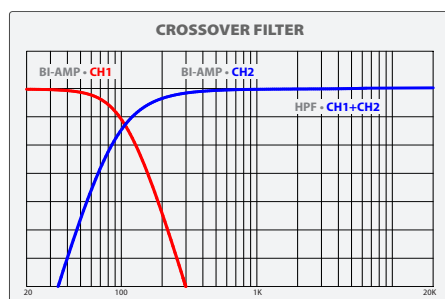
All models feature a built-in **24dB/octave stereo crossover** with BI-AMP and HIGH-PASS options, for easily filtering a 2-way system without the need of additional outboard. Fast-attack precise **CLIP LIMITERS** guarantee maximum output without distortion, while a comprehensive protection system safeguards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

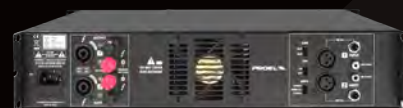




- Integrated CLIP LIMITERS (user-defeatable in 4600 and 6000)
- Selectable LPN filter (Low-Pass Notch - 900 to 2800)
- STEREO/PARALLEL/BRIDGE mode
- 2- or 3-position GAIN selector
- XLR, 1/4" JACK and RCA input connectors (900 to 2800)
- SPEAKON and binding post output connectors
- AC, DC, thermal and 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



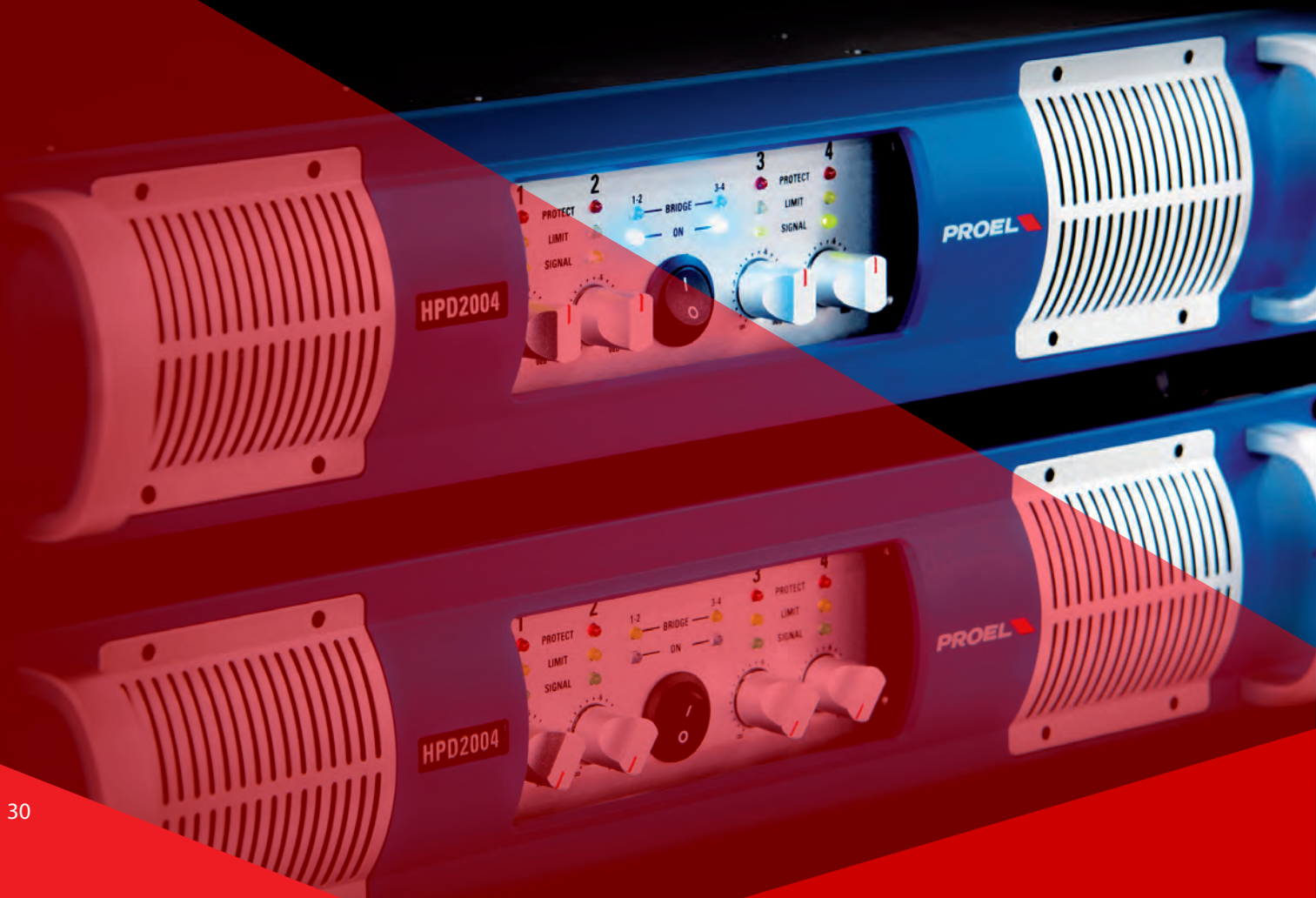
HPD SERIES

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

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

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





HPD2004 - HPD4004

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

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



MUSIC IS TO THE
WHAT WORDS A



THE SOUL RETURN TO THE MIND

(Modest Mouse)



WAVE SERIES

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

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

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

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

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





WAVE10A WAVE10P

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



WAVE12A WAVE12P

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



WAVE15A WAVE15P

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

ACTIVE	WAVE10A	WAVE12A	WAVE15A
System type	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure
High Frequency Device	1" compression driver with 1"VC	1" compression driver with 1.35"VC	1" compression driver with 1.35"VC
Low Frequency Device	10" woofer with 1.5" voice coil	12" woofer with 2" voice coil	15" woofer with 2.5" voice coil
Angular Coverage	90° H x 60° V	90° H x 60° V	90° H x 60° V
Total peak power	260 W	400 W	400 W
HF Amplifier Continuous Power	30 W Class AB	50 W Class AB	50 W Class AB
LF Amplifier Continuous Power	100 W Class D	150 W Class D	150 W Class D
Frequency Response	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz
Max SPL	122	123	125
Connectors	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
Controls	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
Power Supply	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
Weight	14 kg (30.8lb)	17 kg (37.4lb)	21 kg (46.3lb)

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

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





V SERIES PLUS

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

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

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

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

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

Loudspeakers V PLUS SERIES



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

V8PLUS NEW

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



V10PLUS NEW

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



Symmetrical 45° wedge angle for stage monitoring



Selectable MIC/LINE input with 2-band EQ

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

V12PLUS



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



V15PLUS



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



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



Ergonomic, ultra-comfortable top handle for an effortless transportation

OPTIONAL ACCESSORIES

COVERV8 COVERV12
COVERV10 COVERV15



Cover for V8PLUS -V10PLUS -V12PLUS -V15PLUS

KPTV8 KPTV12
KPTV10 KPTV15



Brackets for V8PLUS -V10PLUS -V12PLUS -V15PLUS



FLASH X SERIES

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

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

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

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

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

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

FLASH8XD FLASH8XP

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



FLASH12XD FLASH12XP

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



FLASH12XD

CORE PROCESSED

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



Ergonomic, ultra-comfortable
aluminum handles for an effortless
transportation

Loudspeakers **FLASH X SERIES**



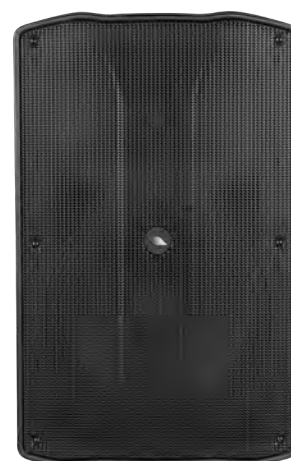
Compact, lightweight and ultra-durable PP injected cabinet



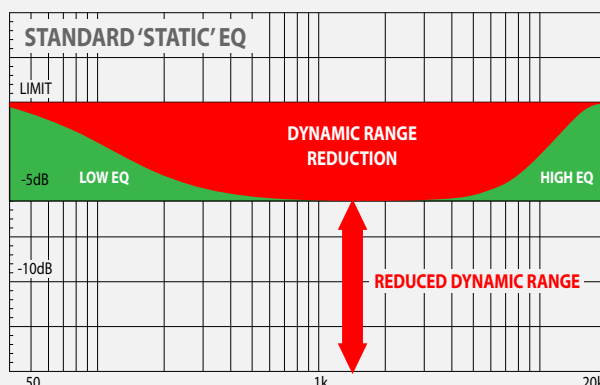
Versatile built-in 2-channel mixer with MIC and LINE inputs



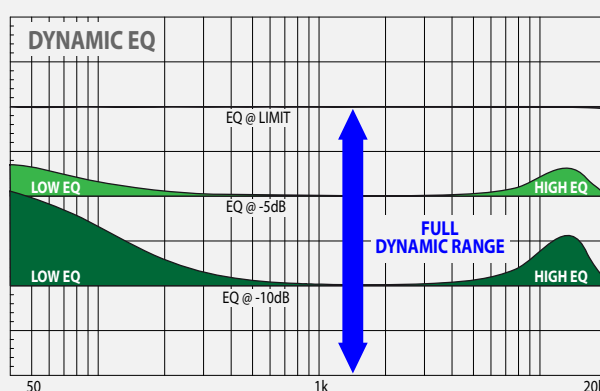
Symmetrical 42° wedge angle for stage monitoring



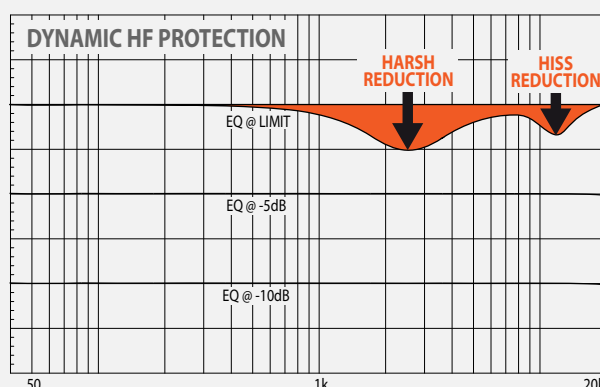
CORE DSP - DYNAMIC EQ



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.

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

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

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

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



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

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

Loudspeakers **LITE** SERIES



Versatile and unobtrusive KPTLTP wall bracket for the passive models



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



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

LT6A / LT6P



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



LT8A / LT8P



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



LT10A / LT10P



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



LT12A / LT12P



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



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

LT15A

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



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

LT215A

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



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

Loudspeakers **LITE** SERIES



Easy and effortless transportation of the whole system



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

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

ACTIVE	LT6A	LT8A	LT10A	LT12A	LT15A	LT215A
System type	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	3-way vented enclosure
High Frequency Device	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
Low Frequency Device	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
Angular Coverage	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
Total Peak Power	150 W	400 W	600 W	600 W	600 W	1200 W
HF Amplifier Continuous Power	75 W	50 W Class AB	50 W Class AB	50 W Class AB	50 W Class AB	100 W Class AB
LF Amplifier Continuous Power		150 W Class D	250 W Class D	250 W Class D	250 W Class D	500 W Class D
Power Supply	LINEAR	SMPS	SMPS	SMPS	SMPS	SMPS
Processing	Analog	Analog	Analog	Analog	Analog	Analog
Frequency Response	75 Hz - 20 kHz	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz	40 Hz - 20 kHz
Max SPL	110 dB	121	123	124	126	132
Connectors	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
Controls	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
Power Supply	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
Weight	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
Nominal Impedance	8 ohm	8 ohm	8 ohm	8 ohm
Power Continuous (AES)	75 W	150 W	200 W	300 W
Power Program	150 W	300 W	400 W	600 W
Power Peak	300 W	600 W	800 W	1200 W
Frequency Response	75 Hz - 20 kHz	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz
SPL (1w / 1m)	88 dB	92 dB	94 dB	96 Db
Crossover Frequency	3000 Hz	3000 Hz	2000 Hz	2000 Hz
Connectors	2 x SPEAKON, 2 x JACK	2 x SPEAKON	2 x SPEAKON	2 x SPEAKON
Weight	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

Flying System	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
Cabinet Material	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
Cabinet Colour	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
Handles		1 x rear	1 x rear	2 x sides	2 x sides	1 x top, 2 x sides
Pole Socket		1 x bottom, dual angle	1 x bottom, dual angle	1 x bottom, dual angle	1 x bottom, dual angle	1 x bottom
Dimensions (W x H x D)	204 x 295 x 223 mm	220 x 442 x 260 mm	340 x 515 x 310 mm	380 x 595 x 360 mm	448 x 670 x 410 mm	448 x 1060 x 450 mm

KPTLT



Brackets for LT
PASSIVE



KPTLT6 - KPTLT8



Brackets for LT6 - LT8



KPTLT10 - KPTLT12



Brackets for LT10 - LT12



S SERIES

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

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

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

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



S18A NEW

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



S15A NEW

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



Lightweight and rugged plywood cabinets with extra-durable polyurethane paint



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



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

Loudspeakers S SERIES



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



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



S12A

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



S10A

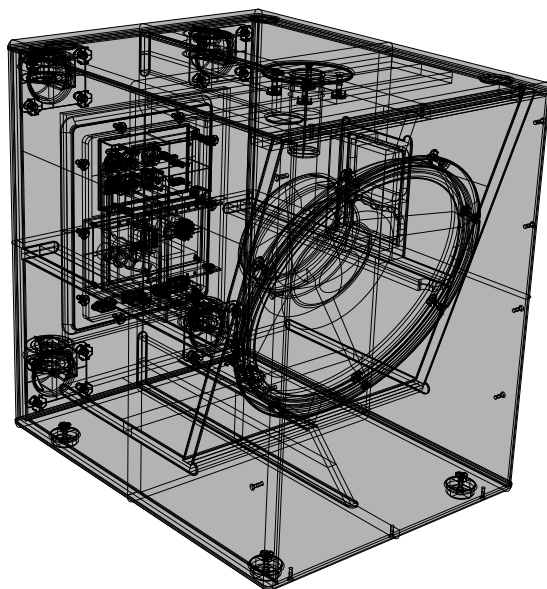
- Compact active HBP sub-woofer
- 10" woofer with 2" VC for a deep and extended response
- 700 W peak power
- STEREO input, link and output
- SPL MAX 119 dB
- Frequency response 46 Hz - 160 Hz
- Passive version available (S10P)

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

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

GENERAL SPECIFICATIONS

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



OPTIONAL ACCESSORIES



COVERS10



COVERS12



COVERS15



COVERS18



WD SERIES V2

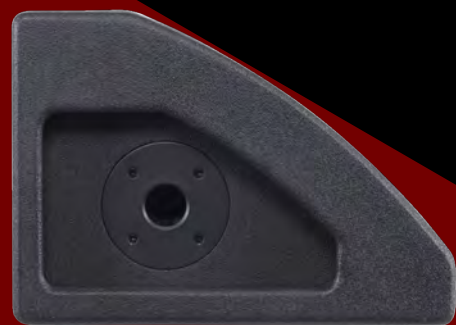
In the past few years with the **WEDGE Series** PROEL has set a standard for **affordable and road-proof stage monitors**, able to offer a highly valuable monitoring solution, with **perfect sound intelligibility and high SPL** in low-profile and portable enclosures. The **Version 2** of this very successful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

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

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

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

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



WD10AV2

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



WD12AV2

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



WD15AV2

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



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



Coaxial speakers for a superior sound definition and an even directivity



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



New ultra-strong polyurethanic finishing for maximum strength and durability

OPTIONAL ACCESSORIES



**CPWD10V2 - CPWD12V2
CPWD15V2**
Wedge series flight case (for 2 unit)

**COVERWD10V2
COVERWD12V2
COVERWD15V2**

Wedge series padded covers



MUSIC PRODUCES A KIND
WHICH HUMAN NATURE



**WORLD OF PLEASURE
WE CANNOT DO WITHOUT**

(Confucius)



SESSION4

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

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

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

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



SESSION4

- 2.1 processed active system with two TOPS and one SUBWOOFER

TOP

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

SUB

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

SYSTEM

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



Fast-coupling system with integrated power signal link



Logarithmic speaker arrangement with progressive tilt for increased vertical coverage

SYSTEM	
System Type	Portable Powered 2.1 System with Two Line Array Tops and One Subwoofer
Maximum SPL Output	122 dB peak system output (pink noise)
Frequency Response (-10dB)	45Hz – 18kHz
SPEAKERS	
LF Driver	2 x 6.5" (165mm) woofer in BANDPASS configuration
HF Driver	8 x 2.75" (70mm) neodymium drivers (4 for each TOP)
Coverage Pattern	100° x 50°
AMPLIFIER	
Type	Class D with SMPS
System Power Rating	300 Watts LF, 2x150 Watts HF Continuous, 1200W Peak
Channels	2 MIC/LINE selectable inputs
Connectors	2 x COMBO (INPUTS), 2 x XLR-M (LINK), 2 x SPEAKON (POWER OUTPUTS)
Controls	1 x LCD with Data Encoder
Processing	24bit / 48kHz CORE DSP - 2-band EQ Selectable CONFIGURATION and EQ PRESETS - Digital Limiting
Wireless Audio	Bluetooth built-in receiver
GENERAL SPECIFICATIONS	
Cabinet Material	Plywood
Finishing	High-strength polyurethane black paint
Grille	Powder coated perforated steel
Handles	2 x sides (SUB)
Pole Socket	1 x top M20 (SUB), 1 x bottom 35mm (TOP)
Included Accessories	M20 / 35mm telescopic pole, 4-wire SPEAKON/SPEAKON cable, 2 x SAT cover
AC input	230 VAC or 120 VAC 50/60 Hz with LINE VOLTAGE selector
Dimensions (W x H x D)	TOP: 100x358x100 mm SUB: 420x480x460 mm
Weight	TOP: 1.5 kg (3.3 lbs) SUB: 22 kg (48.5 lbs) SYSTEM: 25 kg (55.1 lbs)

INCLUDED ACCESSORIES



OPTIONAL ACCESSORIES



User-friendly control interface with single knob and large LCD



Two built-in spaces 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)



MIXER SECTION

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

AMPLIFIER SECTION

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

LOUDSPEAKER SECTION

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

GENERAL SPECIFICATIONS

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



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



Built-in 5-input mixer with DIGITAL EFFECT PROCESSOR



Speaker stand ADAPTER included



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





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 brand new **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**



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



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



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 1/4" JACK
- Convenient accessory compartment



FREEPACK65LT

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

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

MULTIMEDIA SECTION

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

AMPLIFIER SECTION

Amplifier Type	Class D with SMPS (Switch Mode Power Supply)	Class D with SMPS (Switch Mode Power Supply)	Class D with SMPS (Switch Mode Power Supply)
Maximum Output Power	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)
Frequency Response	20 Hz - 20 KHz	20 Hz - 20 KHz	20 Hz - 20 KHz

LOUDSPEAKER SECTION

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

GENERAL SPECIFICATIONS

Dimensions	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
Weight	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
Recharge Battery	2 x 12V / 2.8A		
Battery Recharging Time	7-9 hours		
Battery Working Time	4-5 hours		
Power Supply	230 VAC / 120 VAC (switchable) 50/60 Hz	230 VAC / 120 VAC (switchable) 50/60 Hz	230 VAC / 120 VAC (switchable) 50/60 Hz
Power consumption	300 W	300 W	700 W



Powerful and lightweight
CLASS D amplifiers with SMPS



Luggage-style design for
the maximum portability





FREE

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

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

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





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

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

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

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

Portable Systems **FREE**



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



Convenient top compartment for storing microphones and other accessories



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

FREE10LT

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



FREE6LT

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



FREE5LT

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



Built-in LED flashlight



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



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

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



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

OPTIONAL ACCESSORIES

FR6LTKITB



FR10LTKITB



FR10LTKITH



COVERFR6 COVERFR10



	FREE10LT	FREE8LT	FREE6LT	FREE5LT
MIXER SECTION				
MONO inputs	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)
STEREO inputs	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)
Internal Effect	ECHO	ECHO		
Outputs	MONO LINE OUT (JACK)		MONO LINE OUT (JACK)	LINE OUT (mini JACK)
Main EQ	2-band EQ (HIGH + LOW)	2-band EQ (HIGH + LOW)	TONE control	
WIRELESS SECTION				
Wireless Receiver	FR2R		FR3R	FR4H
Handheld Transmitter	FR2H		FR3H	FR4B (optional)
Bodypack Transmitter	FR2B (optional)		FR3B (optional)	HS2 (optional)
Headset microphone	HS2 (optional)		HS2 (optional)	FM
Modulation Mode	FM		FM	UHF 863 – 865 MHz
Frequency Range	UHF 863-865MHz		UHF 863-865MHz	60 Hz – 16 KHz
Audio bandwidth	60 Hz - 16 KHz		60 Hz - 16 KHz	> 100 dB
S/N ratio	>100dB		>100dB	< 10 mW
HANDHELD RF output	10mW		10mW	< 10 mW
BODYPACK RF output	10mW		10mW	< 0.1%
THD	<1%		<1%	<1%
MULTIMEDIA SECTION				
Player Type	USB / SD / BLUETOOTH player	USB / SD / BLUETOOTH player	USB / SD / BLUETOOTH player	USB / BLUETOOTH player with REC function
Compatible File Formats	MP3	MP3	MP3	WAV, MP3, WMA
Control Interface	LCD display, REMOTE control	LCD display, REMOTE control	LCD display, REMOTE control	LCD display, REMOTE control
AMPLIFIER Section				
Continuous Power	80W RMS (DC), 120W RMS (AC)	20W RMS	60W RMS (DC), 80W RMS (AC)	10W RMS (DC), 20W RMS (AC)
LOUDSPEAKER SECTION				
Loudspeaker System	2-way system	2-way system	2-way system	Full-range system
High Frequency Device	1" horn loaded compression driver	3" tweeter	1" horn loaded compression driver	5" full-range speaker
Low Frequency Device	10" woofer	8" woofer	6.5" woofer	
Frequency Response	55Hz - 18KHz	65Hz - 15KHz, -3dB	80Hz - 18KHz	120Hz - 18KHz, -3dB
Cabinet Material	Polypropylene cabinet, metal grille, 2 wheels	MDF with black PVC finishing, 2 wheels	Polypropylene cabinet, metal grille	Polypropylene Cabinet, Metal Grille
Handles	1 rear retractable	1 top, 1 rear retractable	1 top	1 top
Pole Socket	1 bottom	1 bottom	1 bottom	1 microphone stand adapter bottom
GENERAL SPECIFICATIONS				
Dimensions	36x56x31 cm	46.5x51x37.5 cm	29.5x47x26 cm	13.5x15x24.5
Weight	19 kg / 41.9 lbs	12 kg / 26.45 lbs	6. kg / 13.20 lbs	1.5 Kg (3.3 lb)
Recharge Battery	2 x 12V / 5A	1 x 12V / 5A	2 x 12V / 1.5A Li-ion	1 x 11.1V / 1.5Ah Li-Ion
Battery Recharging Time	10-12 hours	7-10 hours	7-9 hours	2 hours
Battery Working Time	3-4 hours	2-3 hours	4-5 hours	4-5 hours
Power Supply	230/115 VAC (switchable) 50/60 Hz	230/115 VAC (switchable) 50/60 Hz	240-100 VAC 50/60 Hz	AC 90-264V ~ 50/60Hz adapter



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ALPHABETICAL INDEX

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