

Sound Systems



PROEL 

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the only tru



Birth is music

(Jack Kerouac)





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

NEW



- 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



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



High-headroom,
low-noise MIC
preamps



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



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

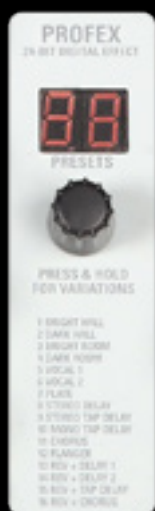


3-band EQ with musical filtering frequencies and LO-CUT



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



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



Mi16

NEW



- 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



		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	
	max. out level	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	(2x) 193 mW	Stereo JACK
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.



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



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



M822USB

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



USB interface with full IN & OUT ROUTING capability



M1622USB

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

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		Internal power supply			
Mains Supply Voltage:			110-240 VAC (±10%) 50 / 60 Hz Europe mains cord (Shucko plug) US mains cord (NEMA 5-15P plug) UK mains cord (BS1363 plug)	available with	
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.

MLX2842



MLX3642

MLX2842



MLX3642

MLX2842 / MLX3642

NEW

- 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

MONO CHANNEL

STEREO CHANNEL

MASTER SECTION

1

PHASE

LO-CUT 75 Hz

GAIN

LEVEL SET

MIC LINE

HIGH 12 kHz

HI-MID 3 kHz

FREQ

500 Hz 12 kHz

LO-MID 80 Hz

FREQ

80 Hz

EQ ON

AUX 1

AUX 2

AUX 3

AUX 4

FX1 AUX 5

FX2 AUX 6

POST PRE

PAN

LEFT RIGHT

PEAK MUTE

1-2

3-4

MAIN

SOLO

1

ST1

GAIN

LEVEL SET

LINE

HIGH 12 kHz

HI-MID 3 kHz

LO-MID 500 Hz

EQ ON

AUX 1

AUX 2

AUX 3

AUX 4

FX1 AUX 5

FX2 AUX 6

POST PRE

BAL

LEFT RIGHT

PEAK MUTE

1-2

3-4

MAIN

SOLO

ST1

MLX3642 36-IN 6-BUS PREMIUM MIXER

PROEL

USB/TRK ROUTING

MAIN MIX ST2

MAIN MIX GROUP1&2

AUX5

AUX6

STEREO RETURN 1

STEREO RETURN 2

PROFEX 24-BIT DIGITAL EFFECT

PRESETS

1 BRIGHT HALL
2 DARK HALL
3 BRIGHT ROOM
4 DARK ROOM
5 VOCAL 1
6 VOCAL 2
7 PLATE
8 STEREO DELAY
9 STEREO TAP DELAY
10 MONO TAP DELAY
11 CHORUS
12 FLANGER
13 REV + DELAY 1
14 REV + DELAY 2
15 REV + TAP DELAY
16 REV + CHORUS

FX TO AUX1

FX TO AUX2

FX TO AUX3

FX TO AUX4

TAP

FX1 SEND

FX2 SEND

AUX1

AUX2

AUX3

AUX4

MAIN MIX

PAN

LEFT RIGHT

PEAK MUTE

SOLO

FX1

FX2

GRP1

GRP2

GRP3

GRP4

MAIN MIX

POWER

CLIP

13

10

7

4

2

0

-2

-4

-7

-10

-13

-16

-20

-25

-30

L

R

AFL

PFL

SOLO MODE

PHONES LEVEL

MONITOR LEVEL

MAIN

GROUP

AUX 1-4

AUX 5-6

TALK BACK

STEREO MONO

PRE POST

MAIN B

MAIN MUTE

BAL

LEFT RIGHT

OPTIONAL ACCESSORIES



CMMLX2842
Flight Case for MLX2848

CMMLX3642
Flight Case for MLX3642



USBLL02
USB LED lamp

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: ?? x ?? x ?? mm - MLX3642: ?? x ?? x ?? mm	
Weight		MLX2842: ??kg - MLX3642: ??kg	
POWER REQUIREMENTS			
Power Supply		100-240VAC, 50/60Hz	
Consumption		100 W	



Where wo
mus

A black and white photograph of a desk. On the left, a laptop is partially visible. A thick black cable is coiled on the desk surface. The background is a blurred view of trees and foliage. The text "ords fail," is in a light gray font, and "ic speaks." is in a bold white font, both with a slight drop shadow.

ords fail,
ic speaks.



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 adaptor 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 adaptor 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 / Pin 1 & 3 Ground	Two Parallel 1/4" jack connectors and a parallel RCA connector (unbalanced) Jack: Tip Hot / Sleeve Ground	Two Parallel 1/4" jack connectors and a parallel RCA connector (unbalanced) Jack: Tip Hot / Sleeve Ground
OUTPUT SECTION			
Output	Transformer Balanced (fully isolated) into 600 Ohms or greater	Active discrete devices (transformer less) into 600 Ohms or greater	Transformer Balanced (isolated with shielding) into 1K Ohms or greater
Max. Output Level	+3 dBu (for 0.1% THD at 50 Hz) +5 dBu (for 0.1% THD at 1k Hz)	+5 dBu (for 0.1% THD at 50 Hz) +5 dBu (for 0.1% THD at 1k Hz)	-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 adaptor	+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 accessories and useful **tools**, ranging from D.I. Boxes and Headphone Amps to Signal Splitters, Tube Preamps and Power Supply Units, designed to complement audio systems in **stage applications, recording studios** and **fixed installations**.

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

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





PHANTOM100

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



SPLIT100

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



HPAMP104

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



TUBE1000USB

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



PSU110

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



	DIRECT100A	DIRECT100P
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

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

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

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



PC SERIES

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

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

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

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

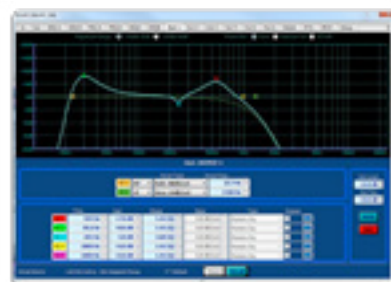
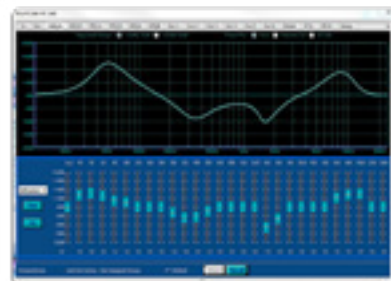


PC260

- 40bit floating point resolution CORE DSP
- 24bit AD/DA converters
- 110dB dynamic range
- 5 bands of full PARAMETRIC EQ on each INPUT and OUTPUT
- 28 bands of GRAPHIC EQ on each INPUT
- 3 bands of DYNAMIC EQ on each INPUT
- Fully programmable COMPRESSOR/LIMITER on each INPUT and OUTPUT

- Up to 600ms delay time on each INPUT and OUTPUT
- Full METERING on each INPUT and OUTPUT
- RTA with dedicated MIC input
- GROUPING function
- SPL manager
- AES digital input
- PRONET remote control thru USB and network capability

PC260	
INPUT SECTION	
Inputs	2 electronically balanced - XLR F (IN) + XLR M (LINK)
Input Impedance	> 10k ohms
Maximum Input Level	+20dBu (-6dB pad)
Input gain	+6 dB to -30 dB in 0.2 dB steps
Digital Input	AES/EBU
OUTPUT SECTION	
Outputs	6 - XLR M
Maximum Output Level	+20dBu
Output Gain	+15 dB to -30 dB in 0.2 dB steps and mute
CROSSOVER FILTERS	
Slopes	6/12/18/24/48dB per octave
Type	Bessel / Butterworth / Linkwitz-Riley
DELAYS	
Max Delay time	600 ms on all In and Out
Delay Step	21 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 porcessing	40 bit floating point
GENERAL PERFORMANCE (FILTERS OUT)	
Frequency response	+1/2 dB 20 Hz ~ 20 kHz
Dynamic range	> 110 dB 20 Hz ~ 20 kHz unwtid
Distortion (THD)	< 0.015% @ 1kHz, +18dBu
Display	192x32 LCD Graphic Display
Metering	Input: 2 x 4 LED - Output: 6 x 4 LED
Remote control	USB, RJ45 PRONET In/Out
GENERAL	
Dimensions	44 x 482 x 295 mm
Weight	4.1 kg (9 lb)
AC Power	80 to 250V \pm 15% @ 50/60 Hz





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. stereo CROSSOVER filter with BI-AMP and HPF option
- STEREO / BRIDGE / PARALLEL mode
- XLR input and link connectors
- SPEAKON output connectors
- AC, DC, thermal, short-circuit and VHF protection
- Precise 8-segment LED ladders
- FRONT-TO-BACK ventilation system with variable speed fan
- Ultra-light all- aluminum chassis with die-cast handles
- TOTAL WEIGHT less than 6kg

	DPX1000	DPX1500	DPX2000
Power 8 ohm*	350	500	650
Power 4 ohm**	500	750	1000
Power BRIDGE 8 ohm**	1000	1500	2000
* W RMS per channel, both channel driven, 1KHz THD 1%, ** 40ms burst			
Output Stage	Class D		
Frequency Response	20 Hz - 20 kHz		
Input Impedance	10 kΩ unbalanced 20 kΩ balanced		
Damping Factor	>60		
S/N Ratio (Unweighted)	>102 dB		
Input Connectors	XLR F (INPUT), XLR F (LINK)		
Output Connectors	SPEAKON		
Controls	INPUT LEVEL, STEREO/BRIDGE-PARALLEL, FLAT/BI-AMP/HPF		
LED Indicators	7-LED BAR (ON, LIMIT, PROTECTION, -5dB / -10dB / -20dB / -40dB SIGNAL)		
Cooling	Variable speed DC fan, air flow from front to rear		
Protections	AC low power, DC, thermal, short circuit, VHF, CLIP limiter		
Power Supply	230 VAC 50 Hz or 120 VAC 60 Hz		
Dimensions (W x H x D)	483 x 89 x 382 mm		
Weight	5 Kg (11 lb)	5.1 Kg (11.2 lb)	5.75 Kg (12.7 lb)

DPX1000

NEW



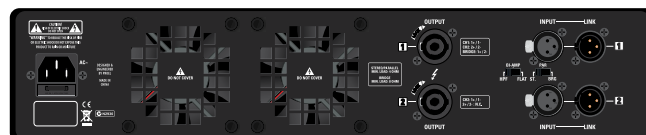
DPX1500

NEW



DPX2000

NEW



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.



	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/us						
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)

- 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

NEW

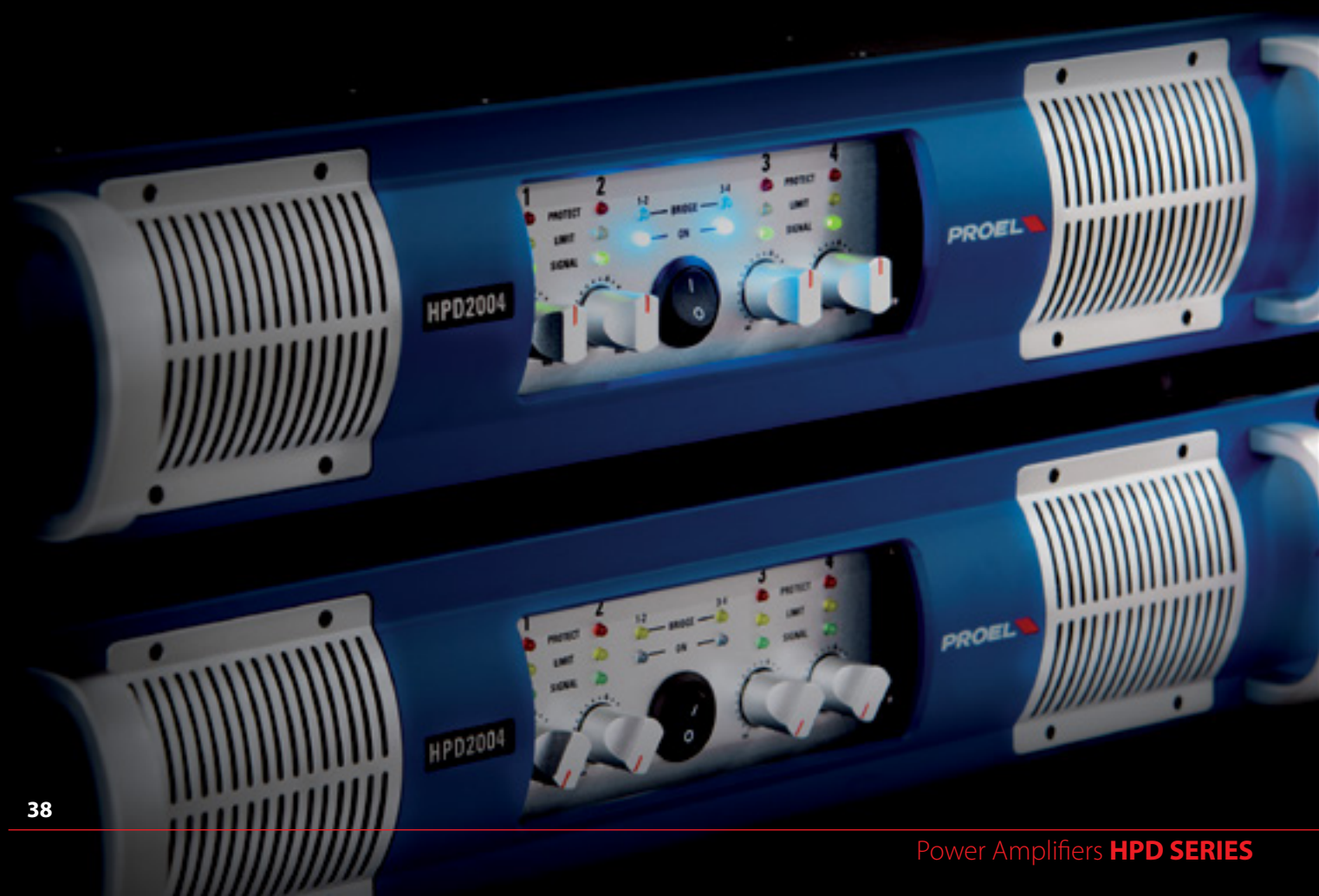
HPD SERIES

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)	

rock'n'roll is



here to stay

(Neil Young)





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 thru a **BLUETOOTH** connection. You only need to pair your smartphone or your tablet with a WAVE speaker for playing music without the need of any cable. Thanks to the built-in **2-channel mixer** you can connect a microphone or an additional external source to your PA and mix your sound with independent level controls and a **2-band EQ**. Setting and using a PA system has never been so easy.

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

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



WAVE10A

WAVE10P

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



WAVE12A

WAVE12P

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



WAVE15A

WAVE15P

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



ACTIVE	WAVE10A	WAVE12A	WAVE15A
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 Rating (continuous)	150W	200 W	250 W
Power Rating (peak)	300 W	400 W	500 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
Construction	Polypropylene	Polypropylene	Polypropylene
Mounting Pole	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

V Series is the new generation of PROEL powered loudspeakers delivering **absolute value** in terms of **performance, engineering** and **design**.

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

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

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

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





V8A

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



V10A

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





V12A

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



V15A

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



OPTIONAL ACCESSORIES

KPTNX04

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



COVERV8 COVERV10 COVERV12 COVERV15

Cover for V8A -V10A -V12A -
V15A



KPTV8 KPTV10 KPTV12 KPTV15

Brackets for V8A -V10A -V12A
- V15A



	V8A	V10A	V12A	V15A
System type	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure
High Frequency Device	1" neodymium compression driver	1" neodymium compression driver	1" neodymium compression driver	1" neodymium compression driver
Low Frequency Device	8" woofer with 1.5" voice coil	10" woofer with 2" voice coil	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	90° H x 60° V	90° H x 60° V
Total peak power	400 W	600 W	600 W	600 W
HF Amplifier Continuous Power	50 W Class AB	50 W Class AB	50 W Class AB	50 W Class AB
LF Amplifier Continuous Power	150 W Class D	250 W Class D	250 W Class D	250 W Class D
Power Supply	SMPS	SMPS	SMPS	SMPS
Processing	Analog	Analog	Analog	Analog
Frequency Response	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz
Max SPL	121	123	124	126
Connectors	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, 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
Monitor Taper	45°	45°	44°	44°
Flying System	4 x M8- top/bottom	4 x M10 - top/bottom	4 x M10 - top/bottom	4 x M10 - top/bottom
Construction	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Cabinet Colour	Black	Black	Black	Black
Handles	1 x top	1 x top	1 x top	1 x top, 2 x sides
Mounting Pole	1 x bottom	1 x bottom	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	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	380 x 600 x 328 mm	440 x 712 x 400 mm
Weight	7 kg	10 kg	13 kg	18 kg





V HDA SERIES

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

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

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

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

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

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

V12HDA

NEW



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

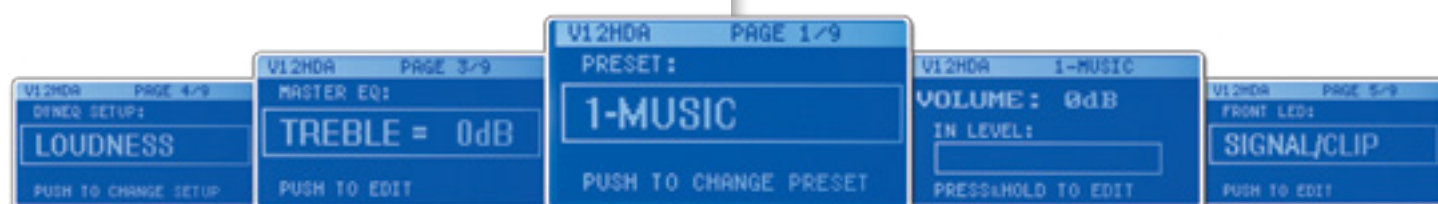
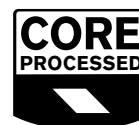


V15HDA

NEW



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



	V12HDA	V15HDA
System type	2-way vented enclosure	2-way vented enclosure
High Frequency Device	1" CELESTION compression driver	1" CELESTION compression driver with 1.4" VC
Low Frequency Device	12" woofer with 3" voice coil	15" woofer with 3" VC
Angular Coverage	90° H x 60° V	90° H x 60° V
Total peak power	1200 W	1200 W
HF Amplifier Continuous Power	100 W Class AB	100 W Class AB
LF Amplifier Continuous Power	500 W Class D	500 W Class D
Power Supply	SMPS	SMPS
Processing	CORE LT digital processor	CORE LT digital processor
Frequency Response	50 Hz - 20 kHz	45 Hz - 20 kHz
Max SPL	127	128
Connectors	LINE IN: COMBO, MIC IN: XLR F, LINK: XLR M	LINE IN: COMBO, MIC IN: XLR F, LINK: XLR M
Controls	LCD display, DIAL, GND LIFT	LCD display, DIAL, GND LIFT
Monitor Taper	44°	44°
Flying System	4 x M10 - top/bottom	4 x M10 - top/bottom
Construction	Polypropylene	Polypropylene
Cabinet Colour	Black	Black
Handles	1 x top	1 x top, 2 x sides
Mounting Pole	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	15.5 kg	21 kg

FLASH SERIES

For years PROEL **FLASH** loudspeakers have provided thousands of users all around the world with the finest sound in its class together with **versatility**, portability and style. Today the STANDARD (V2) and PREMIUM (HDA) models still offers the best in performance, features and design.

The **FLASH V2** are powered by amplifier modules combining the high efficiency of **Class D** output stages with the light-weight and compact size of **Switch Mode Power Supply**: this gives FLASH V2 a massive punch and a consistent reserve of power while making them **light-weight and extremely portable**. The built-in **2-channel mixer** with independent LINE and MIC inputs and 2-band EQ can turn any FLASH V2 system into an instant PA system. The use of **carefully selected speakers**, including a new high-definition CELESTION compression driver, together with a sophisticated **active signal processor** and a dual clip limiter, provide an accurate acoustic response and an amazing sound pressure level with very low distortion.

FLASH HDA feature high-power Class D SMPS amplifier modules with a massive power-per-size ratio and the powerful **40-bit 96KHz CORE DSP**. Thanks to the sophisticated signal processing provided by the CORE DSP, which includes also a versatile **Dynamic EQ**, and to the high-grade **CELESTION speakers**, FLASH HDA delivers an outstanding **sound definition** and a dynamic performance typical of top-end professional systems. The **4 EQ PRESETS** selectable from the amplifier panel (FLAT, DJ, SPEECH, MONITOR) make these systems perfectly adaptable to any kind of application.

All the models include the classic FLASH features, such as light weight polypropylene cabinets with extended internal ribbing and trapezoidal shape, **constant wide-coverage** (90° x 60°) high frequency horns for a uniform and coherent dispersion, convenient transport handles and built-in flying points for the use in fixed installation.

All the models in the FLASH Series can be combined with the powerful PROEL SW sub-woofers, which provide the perfect low extension for creating high-power multi-way systems, to be used also in large sound reinforcement applications.





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)



FLASH12AV2 FLASH12PV2

- Bi-amplified 2-way system
- 1" CELESTION compression driver on a 90° x 60° constant coverage horn
- 12" woofer with 2" voice coil
- 600 W total peak power
- SPL MAX 124 dB
- Frequency response 60 Hz - 20 kHz
- Passive version available



FLASH8AV2 FLASH8PV2

- Bi-amplified 2-way system
- 1" CELESTION compression driver on a 90° x 60° constant coverage horn
- 8" CELESTION woofer with 1.8" voice coil
- 600 W total peak power
- SPL MAX 122 dB
- Frequency response 70 Hz - 20 kHz
- Passive version available



FLASH15AV2

- Bi-amplified 2-way system
- 1" CELESTION compression driver on a 90° x 60° constant coverage horn
- 15" CELESTION woofer with 2.5" voice coil
- 600 W total peak power
- SPL MAX 127 dB
- Frequency response 50 Hz - 20 kHz



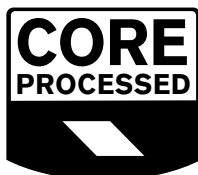
FLASH12HDA

- Active processed 2-way loudspeaker systems
- 1" CELESTION compression driver with 1.75" VC on a constant coverage 90° x 60° horn
- 12" CELESTION woofer with 3" VC
- 1200 W peak power
- 96 KHz, 40bit floating point CORE DSP with Dynamic EQ (DEQ)
- 4 EQ PRESETS (FLAT, DJ, SPEECH, MONITOR)
- SPL MAX 128 dB
- Frequency response 50 Hz - 20 kHz



FLASH15HDA

- Active processed 2-way loudspeaker systems
- 1" CELESTION compression driver with 1.75" VC on a constant coverage 90° x 60° horn
- 15" CELESTION woofer with 3" VC
- 1200 W peak power
- 96 KHz, 40bit floating point CORE DSP with Dynamic EQ (DEQ)
- 4 EQ PRESETS (FLAT, DJ, SPEECH, MONITOR)
- SPL MAX 129 dB
- Frequency response 45 Hz - 20 kHz



OPTIONAL ACCESSORIES



SNWH
ABS installation bracket
for FLASH5PW (white)

SNBK
ABS installation bracket
for FLASH5P (black)



COVERFL8
COVERFL12
COVERFL15

KPTFL5
KPTFL5W

Brackets for FLASH5
Black and White



KPTFL8 - KPTFL12 - KPTFL15
Brackets for FLASH8 - FLASH12 - FLASH15

KPTNX04

Universal Wall Mount for Brackets
FLASH5 - FLASH8 - FLASH12 - FLASH15

ACTIVE	FLASH5A	FLASH8A V2	FLASH12A V2	FLASH15A V2	FLASH12HDA	FLASH15HDA
System type	2-way vented enclosure	2-way vented enclosure	2-way vented enclosure	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 aluminum voice coil	1" compression driver with aluminum voice coil	1" compression driver with aluminum voice coil	1" compression driver with 1.75 VC	1" compression driver with 1.75 VC
Low Frequency Device	5 woofer with PP cone	8 woofer with 1.8 VC	12 woofer with 2 VC	15 woofer with 2.5 VC	12 woofer with 3 VC	15 woofer with 3 VC
Angular Coverage	90° H x 60° V	90° H x 60° V	90° H x 60° V	90° H x 60° V	90° H x 60° V	90° H x 60° V
Total Peak Power	200 W	600 W	600 W	600 W	1200 W	1200 W
HF Amplifier Continuous Power	20 W Class AB	50 W Class AB	50 W Class AB	50 W Class AB	100 W Class AB	100 W Class AB
LF Amplifier Continuous Power	80 W Class D	250 W Class D	250 W Class D	250 W Class D	500 W Class D	500 W Class D
Power Supply	Linear	SMPS	SMPS	SMPS	SMPS	SMPS
Processing	Analog	Analog	Analog	Analog	96 KHz, 40 bit floating point CORE DSP	96 KHz, 40 bit floating point CORE DSP
Frequency Response	70 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 20 kHz
Max SPL	114	122	124	127	128	129
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	IN: Combo, XLR F MIX OUT: XLR M	IN: XLR F LINK: XLR M	IN: XLR F LINK: XLR M
Controls	LEVEL, NEARFIELD/MIDFIELD, GND LIFT	MIC LEVEL, LINE LEVEL, LOW EQ, HIGH EQ, GND LIFT	MIC LEVEL, LINE LEVEL, LOW EQ, HIGH EQ, GND LIFT	MIC LEVEL, LINE LEVEL, LOW EQ, HIGH EQ, GND LIFT	LEVEL, MIC/LINE SELECTOR, PRESET (FLAT/DJ/SPEECH/MON), GND LIFT	LEVEL, MIC/LINE SELECTOR, PRESET (FLAT/DJ/SPEECH/MON), 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	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	3.6 kg (7.9 lb)	8.5 kg (18.7 lb)	16.5 kg (36.4 lb)	23.5 kg (51.8 lb)	19.4 kg (42.7 lb)	26.5 kg (60.6 lb)

PASSIVE	FLASH5P	FLASH8P V2	FLASH12P V2
Nominal Impedance	16 Ω	8 Ω	8 Ω
Power Rating (continuous)	80 W	150 W	200 W
Power Rating (peak)	160 W	300 W	400 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	98 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 kg (17.6 lb)	16.5 kg (36.4 lb)

GENERAL SPECIFICATIONS

Monitor Taper	42°	42°	42°	42°	42°	42°
Flying System	3 x M6 - top/bottom	4 x M8 - top/bottom	4 x M10 - top/bottom	4 x M10 - top/bottom	4 x M10 - top/bottom	4 x M10 - top/bottom
Construction	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Mounting Pole	-	1 x bottom	1 x bottom	1 x bottom	1 x bottom	1 x bottom
Dimensions (W x H x D)	175 x 265 x 176.5 mm	270 x 420 x 260 mm	390 x 630 x 360 mm	470 x 730 x 400 mm	390 x 630 x 360 mm	470 x 730 x 400 mm

LITE SERIES

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

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

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

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

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

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





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





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



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





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.



OPTIONAL ACCESSORIES

KPTNX04

Universal Wall Mount for Brackets

LT6 - LT8 - LT10 - LT12



KPTLT

Brackets for LT
PASSIVE

KPTLT6 - KPTLT8 - KPTLT10 - KPTLT12

Brackets for LT6 - LT8 - LT10 - LT12

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 Rating (continuous)	75 W	150 W	200 W	300 W
Power Rating (peak)	150 W	300 W	400 W	600 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 construction	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
Mounting Pole		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





SW SERIES

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

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

The **CLASS D amplifier modules** with **SMPS** (Switch Mode Power Supply) can generate a massive amount of continuous power in a compact, lightweight and reliable package. All the modules include a **STEREO pre-amp** section, **24dB/oct. crossover filters** with selectable frequency and PHASE reverse switch. The cabinets are built with 15/18mm **plywood** and feature 2 or 3 metal handles and sturdy 75mm wheels for an easy transport (except SW110).



SW118HAV2

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



SW115HAV2

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





SW118A

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



SW115AV2

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



SW110AV2



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



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

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

GENERAL SPECIFICATIONS					
Cabinet	15/18 mm plywood Black anti-scratch paint 1 handle 1 x pole holder	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 x steel handles 1 x pole holder 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 x steel handles 1 x pole holder 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 2 x steel handles 1 x pole holder 4 x 75 mm wheels	15/18 mm plywood Black anti-scratch paint 1.5 mm metal grille 3 x steel handles 1 x pole holder 4 x 75 mm wheels
Dimensions (W x H x D)	520 x 330 x 350 mm	430 x 550 x 600 mm	520 x 660 x 640 mm	430 x 550 x 600 mm	595 x 700 x 700 mm



WD SERIES

The **WEDGE Series** is a complete range of **active stage monitors** designed to offer not only to professional musicians and rental companies, but also to amateur musicians and non-professional users, a **highly valuable monitoring solution** at a very affordable price. The WEDGE stage monitors provide a **perfect sound intelligibility** and a **high SPL** in an extremely **light-weight and portable** enclosure.

The **coaxial transducers**, designed under PROEL specifications, represent the best choice for stage monitors, not only because they fit into more compact cabinets, but also for the fact that they provide a perfect alignment in the emission of high and low frequencies and a controlled directivity for a perfect listening from any position.

The lightweight **CLASS D** amplifier modules with **SMPS**, coupled to a sophisticated **analog processing**, provide an impressive sound pressure level, with 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 **low-profile**, stylish and unobtrusive cabinet, with recessed handles and scratch-resistant polyurethane painting, fits perfectly on any stage.

The three models available offer the perfect solution for different monitoring situations. The **ultra-compact WD10A** offers a high-performance monitoring also on small stages or venues with a limited space and it's the ideal solution for speech, vocals and keyboards. **WD12A**, 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. Finally **WD15A**, 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 in very large stages.

WD10A

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



WD12A

- 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



WD15A

- 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



OPTIONAL ACCESSORIES



CPWD10 - CPWD12 - CPWD15

WEDGE SERIES FLIGHT CASE (for 2 unit)

	WD10A	WD12A	WD15A
System type	2-way coaxial vented enclosure	2-way coaxial vented enclosure	2-way coaxial vented enclosure
High Frequency Device	1" neo 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
Monitor Taper	36°	36°	36°
Construction	Plywood with black anti-scratch polyurethane paint	Plywood with black anti-scratch polyurethane paint	Plywood with black anti-scratch polyurethane paint
Mounting Pole	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)	480x300x420 mm	510x340x500 mm	610x365x545 mm
Weight	11 kg (24.25 lb)	15 kg (33 lb)	18 kg (43 lb)



XEOS SERIES

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

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

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

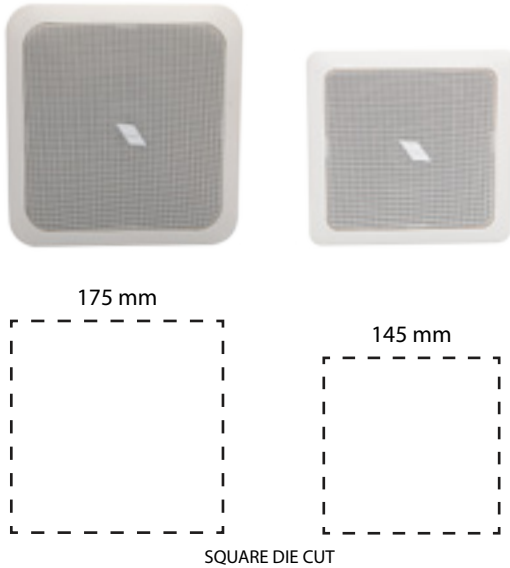


XE35T XE55T XE65T

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

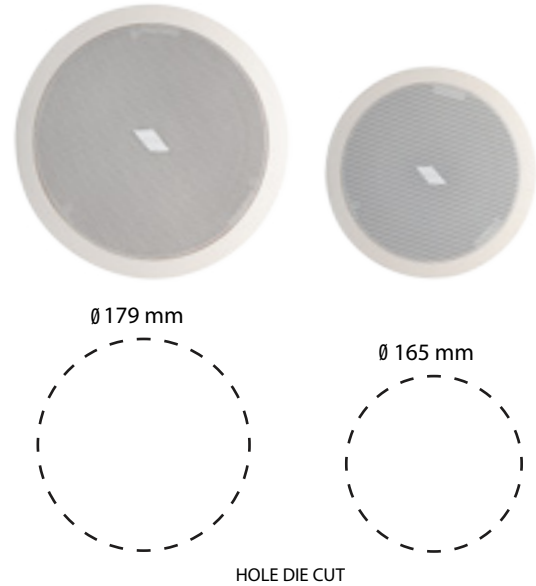
XE65CTX - XE55CTX

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



XE65CT - XE51CT

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



OPTIONAL ACCESSORIES



**KPTSP01WH
KPTSP01BK**

Available for XE5ST and XE6ST in white (KPTSP01WH) or black (KPTSP01BK) color.



**COVER5X
COVER6X**

Metal accessories for installation RAL 9010 color



SNWH

ABS installation bracket for XE5ST (white)



SNBK

ABS installation bracket for XE5ST (black)

	XE3ST	XE5ST	XE6ST	XE55CTX	XE65CTX	XE51CT	XE65CT
System type	2-way system	2-way system	2-way system	2-way system	2-way system	Full-range system	2-way system
HF driver	1" dome tweeter horn loaded	1" dome tweeter horn loaded	1" dome tweeter horn loaded	1" coaxial tweeter	1" coaxial tweeter	-	1" coaxial tweeter
LF driver	3.5" woofer	5" woofer	6.5" woofer	5" woofer	6.5" woofer	5" full-range	6.5" woofer
Power							
Continuous	15 W	30 W	40 W	30 W	40 W	10 W	20 W
Peak	30 W	60 W	80 W	60 W	80 W	20 W	40 W
Nominal impedance	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm	-	-
Line input	70/100 V	70/100 V	70/100 V	70/100 V	70/100 V	100 V	100 V
Connections	Screw terminals	Screw terminals	2 x binding post	Wire terminals	Wire terminals	Wire terminals	Wire terminals
Controls	70/100 V voltage tap selector 8 ohm - 1/2/4/7.5/15 W power tap selector	70/100 V voltage tap selector 8 ohm - 1/2/5/10/30 W power tap selector	70/100 V voltage tap selector 8 ohm - 2/5/10/20/40 W power tap selector	70/100 V voltage tap selector 8 ohm - 1/2/5/15/30 W power tap selector	70/100 V voltage tap selector 8 ohm - 2/5/10/20/40 W power tap selector	2.5/5/10W power tap selector	2.5/5/10/20 W power tap selector
Frequency response (-10 dB)	70-20 kHz	70-20 kHz	50 - 20 kHz	50 - 20 kHz	50 - 20 kHz	100 - 20 kHz	70 - 20 kHz
SPL (1W/1m, 1 kHz)	85 dB	87 dB	87 dB	87 dB	87 dB	90 dB	87 dB
Weight (kg)	1.8	2.7	3.7	1.3	1.7	1	1.2
Dimensions (mm)	130x198x130	181x240x172	217x288x204	170x170x63	200x200x77	Ø 191.5 - H 78	Ø 204 - H 85
Mounting hole (mm)	-	-	-	145x145	175x175	Ø 165	Ø 179
Colour	black XE35TB white XE35TW	black XE55TB white XE55TW	black XE65TB white XE65TW	white	white	white	white



XENIA SERIES

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

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

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

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

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



X30T

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



X50T

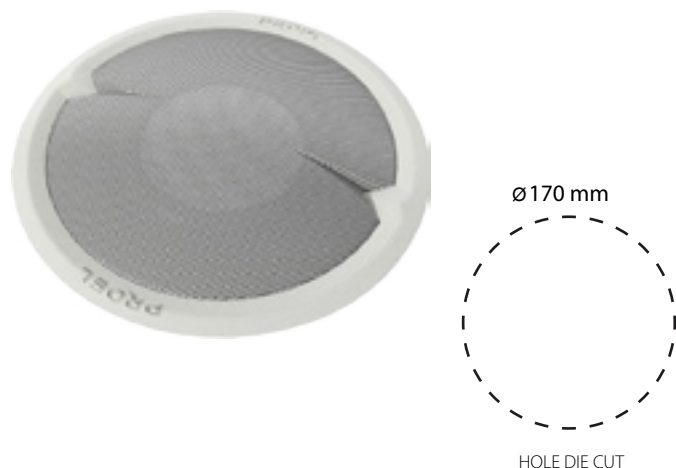
- Passive two-way, wall-mount loudspeaker system
- High-definition dome tweeter on elliptical waveguide
- 5" woofer with PP cone
- Compact ABS cabinet with aluminum grille
- Built-in 70V / 100V line transformer
- 60W power handling
- 12W/25W/50W/8ohm power tap selector
- Wall bracket with 120° horizontal/vertical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



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

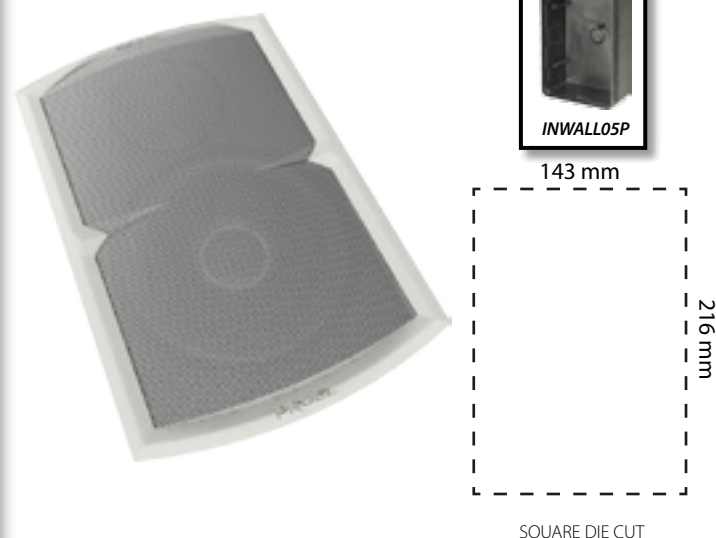
X50CT

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



X50IWT

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



	X30T	X50T	X80T	X50IWT	X50CT
Speakers					
HF	1" neodymium soft dome horn loaded tweeter			1" neodymium soft dome tweeter	1/2" tweeter
LF	3" woofer	5" woofer	8" woofer	5" woofer	5" woofer
Power					
nominal	15W	30W	50W	20 W	10W
max	30W	60W	100W	40 W	20W
Nominal impedance	8 ohm	8 ohm	8 ohm	-	-
Line input	70/100 V	70/100 V	70/100 V	100 V	100 V
Connections	Integral connections included in the bracket (wire terminals)	Integral connections included in the bracket (wire terminals)	2 x binding post	wire terminals	wire terminals
Controls	70/100 V voltage tap selector 8ohm - 8/15/30W power tap selector	70/100 V voltage tap selector 8ohm - 12/25/50W power tap selector	70/100 V voltage tap selector 8ohm - 25/50/100W power tap selector	8/15W power tap selector	2.5/5/10W power tap selector
Frequency response (-10 dB)	100-20k Hz	80-20k Hz	75-20k Hz	85-20k Hz	95-20k Hz
SPL (1W/1m, 1 kHz)	87 dB	90 dB	91 dB	90 dB	91 dB
Dimensions (mm)	12.5x19.3x12	17x28x17.5	25x42x25	17x24x8	Ø 190 - H 8
Weight (kg)	1.3	2.3	4.6	1,7	1,3
Mounting Hole (mm)	-	-	-	143x216	Ø 170
Colour	black X30TB white X30TW	black X50TB white X50TW	black X80TB white X80TW	-	-

AMP120XL

- Constant voltage output power amplifier
- 4 MIC/LINE inputs + 3 AUX inputs
- Dual band tone control
- Priority function on MIC 1
- 120W rated output power
- 100V/70V/50V/ 4 ohm output
- 24V emergency power supply
- 19" rack mount kit included



AUP240R

- Constant voltage output power amplifier
- 1 MIC input + 1 LINE input + 1 TELEPHONE input
- 2-band EQ
- 240W rated output power
- 100V/70V/25V/16ohm/8ohm/4ohm output
- 24V emergency power supply
- 19" rack mountable



TRL

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



AS025

- 2-way stereo + mono low analog crossover
- Designed to optimize the performance of systems combining sub-woofers and satellites
- Two inputs, two HIGH outputs, two LOW outputs, one MONO LOW output
- 24dB/oct. Linkwitz-Riley crossover with internally selectable frequency (80 Hz, 125 Hz, or 160 Hz)
- Subsonic filter, adjustable limiter, delay lines (0, 300 μ s, 600 μ s)
- 10 kHz "air" shelving tone control internally selectable
- Optional board for user-customized parametric filters





EIKON SERIES

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

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

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

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



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

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

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

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

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

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

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

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

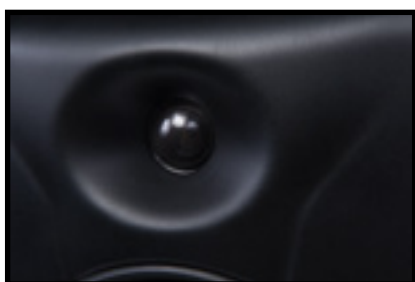




EIKON 5

NEW

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



EIKON 6

NEW

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



EIKON 8

NEW

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



EIKON 10S

NEW

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



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

the only tru



uth is music

(Jack Kerouac)





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
Construction	MDF with black anti-scratch paint, metal grille
Pole Holder	4xM4 theraded 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



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

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

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	+ 15 V (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	
Construction	Black polypropylene, metal grille	
Handles	1 top	
Pole Holder	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**.





FREEPACK812

- All-in-one luggage-style sound system with two speakers, power mixer and media player
- 6 MIC/LINE MONO inputs
- 2 LINE STEREO inputs
- 2-band channel EQ
- 16-preset DIGITAL MULTIEFFECT
- MP3 player with USB/SD slot, BLUETOOTH and LCD display
- 2x10-LED VU-METER
- AMP INSERTS and SUB OUT
- Dual 500W CLASS D power amplifier with SMPS
- 2-way speakers with 1" horn-loaded compression driver and 8x12" elliptical woofer
- 2 x 7.5mt. PROEL power cables with metal ¼" JACK
- Convenient accessory compartment



FREEPACK65

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





FREEPACK65LT **NEW**

- All-in-one luggage-style sound system with two speakers, power mixer and media player
- 2 MIC/LINE MONO inputs
- 2 LINE STEREO inputs
- 2-band channel EQ
- 16-preset DIGITAL MULTIEFFECT
- MP3 player with USB/SD slot, BLUETOOTH and LCD display
- 1x4-LED VU-METER
- AUX and PRE-AMP outputs
- Dual 75W CLASS D power amplifier with SMPS
- 2-way speakers with 2x3" tweeters and 1x6.5" woofer
- 2 x 7.5mt. PROEL power cables with metal ¼" JACK
- 2x12 rechargeable batteries
- Convenient accessory compartment

	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)
Maxium 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
Construction	Black polypropylene, metal grille	Black polypropylene, metal grille	Black polypropylene, metal grille
Handles	1 top	1 top	1 top
Pole Holder	1 bottom	1 bottom	1 bottom
GENERAL SPECIFICATIONS			
Dimensions	System: 62.5x26.4x49.5 cm / Speaker: 22x22x22 cm Mixer: 73x21.5x36 cm	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: 2 kg / Mixer: 2 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



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** and **FREE6LT** 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 and FREE6LT are hosted in compact and road-proof PP cabinets that provides **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 standard speaker 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 (FREE10LTKITM) or bodypack transmitter with headset microphone (FREE10LTKITH), 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.

The smallest model **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.





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



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

NEW

- 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

	FREE10LT	FREE8LT	FREE6LT
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)
STEREO inputs	1 x LINE IN (2xRCA + mini-jack)	1 x LINE IN (2xRCA + mini-jack)	1 x LINE IN (2xRCA + mini-jack)
Internal Effect	ECHO	ECHO	
Outputs	MONO LINE OUT (JACK)		MONO LINE OUT (JACK)
Main EQ	2-band EQ (HIGH + LOW)	2-band EQ (HIGH + LOW)	TONE control
WIRELESS SECTION			
Wireless Receiver	FR2R		FR3R
Handheld Transmitter	FR2H		FR3H
Bodypack Transmitter	FR2B (optional)		FR3B (optional)
Headset microphone	HS2 (optional)		HS2 (optional)
Modulation Mode	FM		FM
Frequency Range	UHF 863-865MHz		UHF 863-865MHz
Audio bandwidth	60 Hz - 16 KHz		60 Hz - 16 KHz
S/N ratio	>100dB		>100dB
HANDHELD RF output	10mW		10mW
BODYPACK RF output	10mW		10mW
THD	<1%		<1%
MULTIMEDIA SECTION			
Player Type	USB / SD / BLUETOOTH player	USB / SD / BLUETOOTH player	USB / SD / BLUETOOTH player
Compatible File Formats	MP3	MP3	MP3
Control Interface	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)
LOUDSPEAKER SECTION			
Loudspeaker System	2-way system	2-way system	2-way system
High Frequency Device	1" horn loaded compression driver	3" tweeter	1" horn loaded compression driver
Low Frequency Device	10" woofer	8" woofer	6.5" woofer
Frequency Response	55Hz - 18KHz	65Hz - 15KHz, -3dB	80Hz - 18KHz
Construction	Polypropylene cabinet, metal grille, 2 wheels	MDF with black PVC finishing, 2 wheels	Polypropylene cabinet, metal grille
Handles	1 rear retractable	1 top, 1 rear retractable	1 top
Pole Holder	1 bottom	1 bottom	1 bottom
GENERAL SPECIFICATIONS			
Dimensions	36x56x31 cm	46.5x51x37.5 cm	29.5x47x26 cm
Weight	19 kg / 41.9 lbs	12 kg / 26.45 lbs	6. kg / 13.20 lbs
Recharge Battery	2 x 12V / 5A	1 x 12V / 5A	2 x 12V / 1.5A Li-ion
Battery Recharging Time	10-12 hours	7-10 hours	7-9 hours
Battery Working Time	3-4 hours	2-3 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

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