



POINT SOURCE SOLUTION



THE ART OF SOUND

2002

PROEL debuts in the field of professional concert systems and starts researching and designing intelligent and "global" solutions for sound reinforcement.

Objectives

PROEL's aim is to achieve state-of-the-art high quality systems and to create solutions for the most demanding sound reinforcement requirements. In order to achieve this, PROEL brings onboard a group of technicians and professionals with years of experience in designing sound systems and using them in live applications.

2007

In a matter of a few years, a group of few brave technicians and specialists with experience in universities and laboratories, but also behind mixing desks and on concert stages, became the PROEL SRT – Sound Research Team.

2008

When PROEL Group acquired the renowned pro-audio brand TURBOSOUND, the resources of PROEL's R&D lab, and particularly those of its SRT, merged with those of the lab in Partridge Green, in the UK.

Presently, the PROEL Sound Research Team represents PROEL's spearhead in the field of professional sound reinforcement systems and includes loudspeaker system designers, analogue electronics specialists, digital system designers, integration experts and live sound engineers. Professional systems designed by the PROEL Sound Research Team feature the most advanced, state-of-the-art technologies: powerful ultra-light transducers, efficient class-D amplifiers, integrated digital signal processors, high-end analogue electronics and convenient, efficient wiring and suspension systems. All these features contribute to the achievement of intelligent sound reinforcement solutions that provide excellent musical sound, high quality, ease of use and versatility.

Results

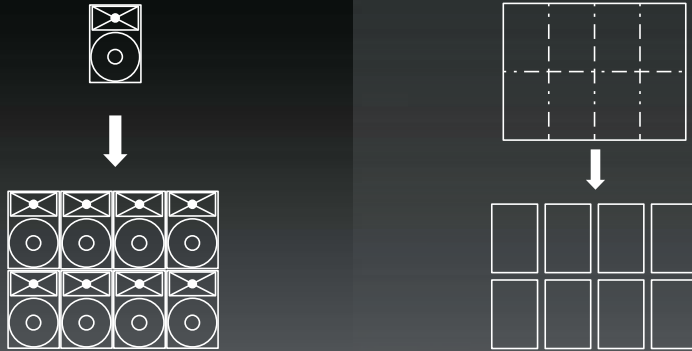
- the EDGE Series point source systems and auxiliary and monitoring systems;
- the AXIOM Series vertical array systems, conceived to combine quality sound and accurate reproduction with competitive prices and easy-to-use features.

Through these years of fast and constant growth, AXIOM and EDGE professional speaker systems have been used to support great artists in a very wide range of applications, always ensuring the success of the event and collecting recognition and praise from professionals in the field.



PUSHING THE SENSES

The EDGE Series consists of medium and highly directive loudspeakers designed for the professional market. Thanks to the combination of valuable, superior performance components and state-of-the-art design techniques, the EDGE Series stands out for sound quality, high efficiency and reliability. The EDGE Systems were designed to achieve superior versatile performance both in live concerts and permanent installations, while maintaining simplicity of use. New concepts and unconventional ideas together with practical and safe mechanical solutions applied to traditional array systems will allow you to suspend your array rapidly for live applications and will guarantee flexible and safe permanent installations.



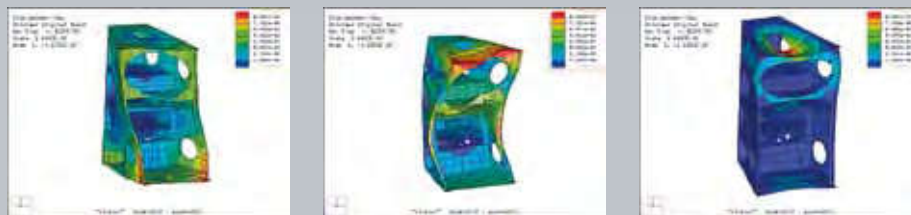
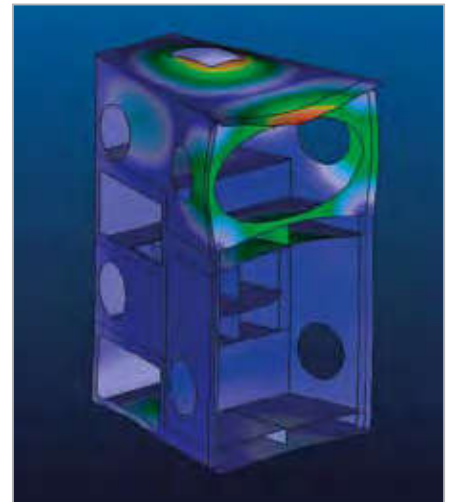
EDGE Series loudspeaker systems (EDGE 212P and 218SP) dedicated to large arrays have been designed not focusing on the performance of each single element, but on the array as a whole. Thanks to the directivity control and to the acoustic pressure level that each element can provide, the scalability toward smaller-dimensioned systems is nonetheless guaranteed. As a matter of fact, while designing the array with EDGE 212Ps, directivity can be shaped with a good degree of freedom both on the horizontal and on the vertical level.

The transducers employed in the EDGE Series enjoy the features of the best available technologies. The advantages of coaxial reproduction, which has been used in several of the EDGE systems, increases the technological content of these products. In designing the transducers we paid special attention to power handling level and to sound quality. For example, the waterproof and carbon fibre-reinforced cones ensure long-term reliability in any kind of venue and the very strong magnetic systems we chose yield damping and good excursion control. In particular, the 21" woofer with its double layered magnet features an undoubtedly uncommon BL value equal to 34 T/m. Among the auxiliary features of the transducers, the Double Silicon Spider (DDS) grants exceptional elastic retention capacity and controls the cone movements with increasing power in case of peaks. The moving coil wound in multiple layers inside and outside the former (Interleaved Sandwich Voice Coil), doubles up the metal-metal surface of heat radiation and significantly reduces power compression. The flux demodulation devices (SDR, DDR) used on most of the transducers allow the distortion to be reduced especially in the mid range and grant an extraordinary control of over-excursion.



FEM analysis

The work put into the optimisation of the EDGE System cabinets produced a paper presented at the 116th AES convention held in Berlin in 2004: "Analysis and minimization of unwanted Resonance in Loudspeaker Systems via FEM techniques". Thanks to the minimisation of structural resonance, all the EDGE Systems grant superior sound quality even at very high pressure levels.



Audio Suite Remote Control Software

Audio Suite is the new remote control software for Powersoft amplifiers, and particularly for those in the K Series fitted with optional KDSP and KAESOP cards. Audio Suite follows two working modes: offline and online. When working offline, the user can configure the system before connecting to a network. Switching to the online mode, it is possible either to send or to recall configurations by connecting to the network. Ethernet protocol ensures a swift data exchange between every amplifier and the computer.





EDGE212P



- High-efficiency modular array system
- Coaxial driver on an asymmetric wave-guide
- Integrated Fly-Track

The **EDGE212P** is a 3 way, high-efficiency horn-loaded system. The mid-bass section is equipped with two 12" loudspeakers in parallel and coupled on the same wave guide horn. An elliptic-spheroid wave guide houses a special 2" compression driver, which is internally divided into two sub-systems: a 4" annular diaphragm reproduces mid-range frequencies, while the very high frequencies are reproduced through a passive filter by a 2" plastic film diaphragm coaxially mounted to the former. The wave guides grant an excellent directivity control which is kept constant from 600Hz upwards.

This feature allows multiple EDGE212Ps to be combined in a coherent way even in very large arrays, distributing the audio energy in a uniform way over the listening area. The wave guides of the EDGE212P are also tilted downwards by 5°, in order to create more rational arrays in suspended configurations. Nonetheless, whenever the system cannot be suspended, the down-tilt aids in the coverage of the listening area. The result is predictable coverage, a good audio balance across the whole array once installed, well distributed energy and a homogenous frequency response that cuts down many of the problems traditionally associated with large loudspeaker arrays, such as the "point source" type. All these features improve the fidelity and intelligibility even with highly reverberant conditions.

EDGE218SP



- Array flyable bass unit
- Highly damped enclosure
- Integrated Fly Track

The flyable bass unit **EDGE218SP** complements EDGE212P in the reproduction of low frequencies when the whole system needs to be flown. As its dimensions match those of the EDGE212P system and they share the same suspension system, EDGE 218SP can be easily combined in arrays whatever the layout of the mid-high range and of the bass range modules. EDGE218SP is a direct radiating unit equipped with two 18" speakers and reproduces high impact low frequencies ranging between 45 and 130Hz.

The enclosure has been designed to be highly damped, in order for the system to have a larger active radiation surface in the space available, thus obtaining the mutual combination effect between several units composing an array. This extends the bass response and avoids the confused audio effects generally associated with large bass arrays. For these reasons EDGE218SP system is at its best in multiple units composing large arrays.

EDGE SW121P



- Direct radiating bass unit
- 21" woofer with 5.3" four layer ISV voice coil,
- Highly damped enclosure

SW121P 21" direct radiating subwoofer completes bass response with an impressive excursion control and high power handling capability. SW121P is designed to work at 1500 W (AES) continuous power and can handle peaks 6 dB higher than that (up to 6000 W) without damage. Because of its heavy-duty DSS (Double Silicon Spider) suspension system, its double demodulating ring (DDR) and its over-damped housing, SW121P can provide a tremendous

amount of defined and controlled low frequency energy. An amplified version is also available (SW121A).



EDGE15CXPB



- Coaxial monitor with a 15" woofer 4" voice coil
- Low profile, ideal for television and theatre applications
- Full range or bi-amp modes

The monitor **EDGE15CXPB** is a highly efficient 2-way low profile system. The bass frequencies are reproduced by a high excursion 15" woofer with a 4" voice coil. The woofer is equipped with a copper ring on the pole piece to achieve the lowest distortion in the vocal range. A small spherical wave guide, housed coaxially in the magnet assembly, loads a 1.5" neodymium-magnet, titanium-diaphragm compression driver that delivers a 65° symmetric coverage for 1.4kHz upwards. The EDGE15CXPB monitor system is equipped with a superior-performance high-quality passive filter.

The EDGE15CXPB can be internally switched to Bi-Amp operation and driven by the DSO480 digital processor using the appropriate preset. The high-performance coaxial transducer yields even timbre balance and clear intelligibility even at extremely high power levels. Moreover, the compact shape of the monitor gives it a discrete presence on stage, which is a very important feature especially for broadcast performances. EDGE15CXPB can also be employed as a reinforcement system for front-fill or down-fill, or it can be stacked with, for example, the EDGE121SP, to create a drum-fill.

EDGE12CXP



- Coaxial monitor with a 12" woofer 3" voice coil
- Low profile, ideal for television and theatre applications
- Full range or bi-amp modes

Monitor **EDGE12CXP** is a high-efficiency low profile 2-way system. Bass frequencies are reproduced by a high-excursion 12" woofer with a 3" coil equipped with a copper ring on the pole piece to achieve the lowest distortion in the vocal range. A spherical wave guide, housed coaxially in the magnet assembly, loads a 1.5" neodymium-magnet, titanium-diaphragm compression driver that delivers a 65° symmetric coverage for 1.4kHz upwards.

The EDGE12CXPB monitor system is equipped with a superior-performance high-quality passive filter. The EDGE12CXPB can be internally switched to bi-amp operation and driven by the DSO480 digital processor using the appropriate preset. The high-performance coaxial transducer yields even timbre balance and clear intelligibility even at extremely high power levels. Moreover, the compact shape of the monitor gives it a discrete presence on stage, which is a very important feature especially for TV broadcast performances. EDGE12CXPB can also be employed as a reinforcement system for front-fill or down-fill, or it can be stand-mounted with, for example, the EDGE121SP, to create a drum-fill.





EDGE8CXPB



- Compact speaker system with a symmetric coverage of 85°
- Co-axial design
- FEA computer modelled horn profile

The **EDGE8CXPB** is a versatile loudspeaker system in very compact enclosure. The custom-made co-axial speaker has been developed by the PROEL R&D laboratory with the aim of getting the best performance out of an 8" woofer combined with a 1" driver. The woofer features an ISV (Interleaved Sandwich Voice) Coil and a die-cast basket with double ventilation designed to improve heat dissipation and thereby reduce power compression.

The high frequency compression driver provides better excursion control and cuts down distortion through the use of ferro-fluid. EDGE8CXPB mounts a 12dB/oct passive crossover with PTC electronic protection to ensure high reliability in any condition. A black (EDGE8CXTB) or white (EDGE8CXTW) version featuring 100V constant voltage line transformer is also available.

EDGE25PB



- WTW configuration with a spherical wave-guide
- Easily configurable in small arrays
- FEA computer modelled horn profile

The **EDGE25PB** is a 2-way, full range passive system featuring passive crossover and PTC tweeter protection. Designed for near-field applications such as television, stage front, lectures, theatres, etc., the system features two 5.25" woofers and a SWGH (Spherical Wave Guide Horn) loaded dome tweeter in a WTW configuration.

The trapezoidal cabinet is asymmetric for combination into small arrays. High angular dispersion, homogenous coverage and high sensitivity stand out among the system features. Parallel configurations yield better results thanks to the 16 Ohm impedance of the speakers. A white version is also available (EDGE25PW), together with a black (EDGE25TB) or white (EDGE25TW) version featuring 100V constant voltage line

EDGE112SP



- Direct radiating bass unit
- 12" woofer with a 3" ISV voice coil
- Compact cabinet

The **EDGE112SP** subwoofer features a 12" woofer with a 3" Interleaved Sandwich Voice coil. The die-cast basket with double ventilation has been designed to grant maximum heat dissipation and reduce power compression. Mechanical excursion is controlled by a DSS (Double Silicon Spider) system, which guarantees system linearity.

The EDGE112SP subwoofer can handle extremely high power (400 W AES) for both indoor or outdoor applications. The frequency response reaches down to 40Hz with a 125dB maximum SPL. This model perfectly complements satellites EDGE8CXP and EDGE25P. We recommend use of ASO25 Active System Optimiser, or of DSO480 Digital System Optimiser for complete system configuration. The ideal frequency cut for the EDGE112SP ranges from 125Hz to 160Hz.



OPTIONAL ACCESSORIES



KPTED1218



AC180



AC172E



AC172P

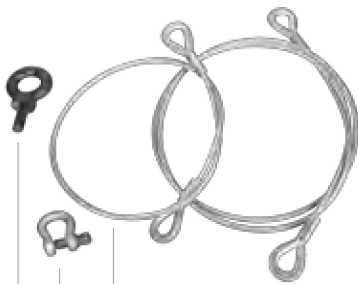
KPTEDTR2



KPTEDTR1



AC178

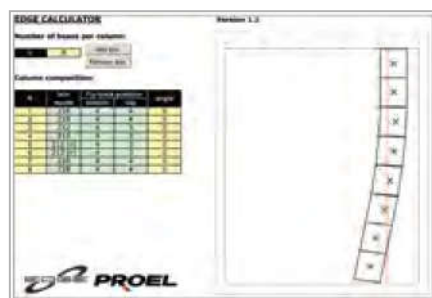


AC171

AC172

AC173

AC169A

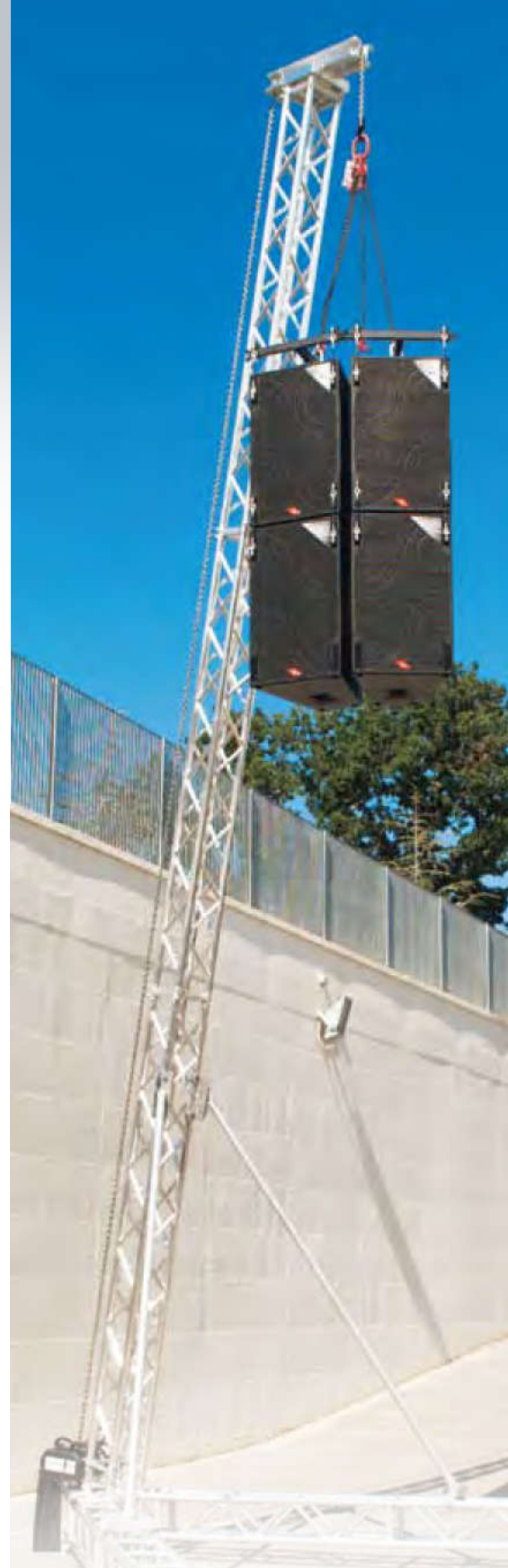


EDGE CALCULATOR

The EDGE Series features a variety of accessories for suspension in permanent installations or in live venues. Thanks to the built-in fly-track couplers, concert systems EDGE212P and EDGE218SP can be suspended in arrays using the elements of modular flying bar KPTED1218. The simplest arrayed configurations can be suspended with the AC180 chain; for greater stability and less encumbrance, connecting beams KPTED1218 and KPTEDTR2 are advised.

Couplings and splay angles between the cabinets composing the array are formed by cables and steel hinges AC172E and AC172P.

The EDGE CALCULATOR spread sheet is available at www.proelgroup.com. It verifies the composition of the array and the correct position of the coupling points according to the array configuration you need. In the PROEL Trussing catalogue you will find 7.5 m and 9.5 m suspension towers for the EDGE array systems.



PLFTMQ30
Tower for flying speaker arrays 7.5 m-500 kg

PLFTMQD30
Tower for flying speaker arrays 9.5 m-600 kg



OPTIONAL ACCESSORIES

The EDGE Series includes transportation and system care accessories. The EDGESKATE caster board with an easy coupling/release device ensures easy transportation of EDGE212P and EDGE218SP concert systems. Special professional



EDGESKATE

padded flight cases for monitors EDGE15CXPB and EDGE12CXP are available. Each flight case can hold two monitors. A variety of cover models in the COVERE Series provide extra protection for their already durable finishes.



90COVE21

- COVERE218 PADDED COVER FOR EDGE212P - EDGE218SP
- 93COVE21 WIND PROOF NYLON COVER FOR EDGE121SP
- COVERE121 PADDED COVER FOR EDGE121SP
- COVERE15 PADDED COVER FOR EDGE15CXPB
- COVERE12 PADDED COVER FOR EDGE12CXP
- COVERE8 TNT COVER FOR EDGE8CXP



COVERE15

For models EDGE8 and EDGE25 a wide series of clamps, with or without joints, and accessories for permanent wall mounted installations are available.

Satellites can be mounted on subs with stands KP210 and PLX10. If you replace the loudspeaker aluminium flange with flange KP325 you can use stands with an M20 terminal.

Coupler PLH300 will couple the clamps directly to a truss. The EDGE Series – except the concert models – features coupling points for M10 eyebolts (M8 for EDGE25).



- PLX10 ADJUSTABLE POLE, ABS TERMINAL Ø 35 MM
- PLX10S ADJUSTABLE POLE, TOP ABS TERMINAL Ø 35 MM, BOTTOM SCREW M20
- PLX10DS ADJUSTABLE POLE, TOP-BOTTOM SCREW M20

PLX10DS
PLX10S

PLX10



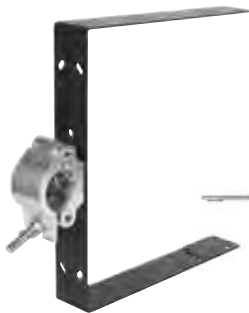
- KP210 ADJUSTABLE POLE, ABS TERMINAL Ø 35 MM
- KP210S ADJUSTABLE POLE, TOP ABS TERMINAL Ø 35 MM, BOTTOM SCREW M20
- KP210DS ADJUSTABLE POLE, TOP-BOTTOM SCREW M20

KP210DS

KP210S

KP210

PLH300
TRUSS COUPLER



KPTED25W



- KPTED25B WALL MOUNTING BRACKET FOR EDGE25PB (BLACK)
- KPTED25W WALL MOUNTING BRACKET FOR EDGE25PW (WHITE)



KPTED8SB

- KPTED8SB WALL MOUNTING BRACKET WITH SWIVEL JOINT FOR EDGE8CXPB (BLACK)
- KPTED8SW WALL MOUNTING BRACKET WITH SWIVEL JOINT FOR EDGE8CXPW (WHITE)



KP325

STEEL FLANGE Ø 110MM, WITH BUSH FOR M20



- KPTED8B WALL MOUNTING BRACKET FOR EDGE8CXPB (BLACK)
- KPTED8W WALL MOUNTING BRACKET FOR EDGE8CXPW (WHITE)

KPTED8B



PLKP182ED

POLE MOUNT ADAPTER FOR EDGE25PB



EDGE212P

System Type	3-way horn loaded full range bi-amp
Nominal Impedance	8 Ω + 16 Ω
Input Power Rating (AES)	800 W + 150 W
Input Power Rating (program)	1600 W + 300 W
Frequency Response	125 Hz - 20 kHz (-3 dB, +6 dB)
Sensitivity	107 dB SPL (2.83 V @ 1 m) MF 112 dB SPL (4 V @ 1 m) HF
Maximum (peak) Output	139 dB @ 1 m
Low Frequency Device	-
Mid Frequency Device	2 x 12" woofer - 3" voice coil - horn loaded
High Frequency Device	2" coaxial compression driver - horn loaded
Coverage Angle H. (-6 dB)	50° average, 315 Hz to 20 kHz
Coverage Angle V. (-6 dB)	40° average, 315 Hz to 20 kHz (5° downtilt)
Trapezoidal Taper	25°
Directivity Index (DI)	12.8 average, 315 Hz to 20 kHz
Signal Processing	Proel DSO480
Flying System	Fly Track
Connectors	2 x Neutrik Speakon NL4MP linked
Construction	trapezoidal, 18 mm birch plywood, internally reinforced
Finishing	paint finish
Cabinet Colour	black
Mounting Pole	-
Dimensions (W x H x D)	58.5 x 98.8 x 68.5 cm
Weight	86.5 kg (190.7 lb)



EDGE218SP

System Type	direct radiation bass-reflex woofer
Nominal Impedance	8 Ω + 8 Ω
Input Power Rating (AES)	800 W + 800 W
Input Power Rating (program)	1600 W + 1600 W
Frequency Response	40 Hz - 100 Hz (-6 dB)
Sensitivity	97 dB (2V @ 1m, 4 Ω - both speakers linked)
Maximum (peak) Output	132 dB @ 1 m
Low Frequency Device	2 x 18" woofer - 4" voice coil
Mid Frequency Device	-
High Frequency Device	-
Coverage Angle H. (-6 dB)	-
Coverage Angle V. (-6 dB)	-
Trapezoidal Taper	25°
Directivity Index (DI)	-
Signal Processing	Proel DSO480
Flying System	Fly Track
Connectors	2 x Neutrik Speakon NL4MP linked
Construction	trapezoidal, 18 mm birch plywood, internally reinforced
Finishing	paint finish
Cabinet Colour	black
Mounting Pole	-
Dimensions (W x H x D)	58.5 x 98.8 x 68.5 cm
Weight	81 kg (178.6 lb)



EDGE SW121P

System Type	direct radiation bass-reflex subwoofer
Nominal Impedance	8 Ω
Input Power Rating (AES)	1500 W
Input Power Rating (program)	3000 W
Frequency Response	32 Hz - 80 Hz (-3 dB)
Sensitivity	96 dB SPL (2.83 V @ 1 m)
Maximum (peak) Output	131 dB @ 1 m
Low Frequency Device	21" woofer - 5.3" voice coil
Mid Frequency Device	-
High Frequency Device	-
Coverage Angle H. (-6 dB)	-
Coverage Angle V. (-6 dB)	-
Trapezoidal Taper	-
Directivity Index (DI)	-
Signal Processing	Proel DSO480, Proel AS025
Flying System	-
Connectors	2 x Neutrik Speakon NL4MP
Construction	15/18 mm birch plywood, internally reinforced
Finishing	paint finish
Cabinet Colour	black
Mounting Pole	1 x top
Dimensions (W x H x D)	58.4 x 76.5 x 81.0 cm
Weight	59 kg - 130 lb



EDGE112SP

System Type	direct radiation bass-reflex subwoofer
Nominal Impedance	8 Ω
Input Power Rating (AES)	400 W
Input Power Rating (program)	800 W
Frequency Response	39 Hz - 125 Hz (-3 dB)
Sensitivity	96 dB SPL (2.83 V @ 1 m)
Maximum (peak) Output	125 dB @ 1 m
Low Frequency Device	12" woofer - 3" voice coil
Mid Frequency Device	-
High Frequency Device	-
Coverage Angle H. (-6 dB)	-
Coverage Angle V. (-6 dB)	-
Trapezoidal Taper	-
Directivity Index (DI)	-
Signal Processing	Proel AS025, Proel DSO480
Flying System	5 x M10 - top, bottom, rear
Connectors	2 x Neutrik Speakon NL4MP linked
Construction	15/18 mm birch plywood, internally reinforced
Finishing	paint finish
Cabinet Colour	black
Mounting Pole	1 x top
Dimensions (W x H x D)	37 x 46.8 x 46 cm
Weight	24.5 kg (54.0 lb)



EDGE15CXPB

System Type	coaxial 2-way vented enclosure
Nominal Impedance	8 Ω
Input Power Rating (AES)	900 W (900 W + 75 W bi-amp)
Input Power Rating (program)	1800 W (1800 W + 150 W bi-amp)
Frequency Response	60 Hz - 20 kHz (±6 dB)
Sensitivity	99 dB SPL (2.83 V @ 1 m) LF 109 dB SPL (2.83 V @ 1 m) HF
Maximum (peak) Output	131 dB @ 1 m
Low Frequency Device	15" woofer - 4" voice coil - 8 Ω
High Frequency Device	1.5" compression driver - coaxial - 8 Ω
Coverage Angle H. (-6 dB)	65° average, 630 Hz to 20 kHz
Coverage Angle V. (-6 dB)	65° average, 630 Hz to 20 kHz
Monitor Taper	42°
Directivity Index (DI)	12.4 average, 630 Hz to 20 kHz
Constant Voltage Transformer	-
Signal Processing	Proel DSO480
Flying System	4 x M10 lateral
Connectors	2 x Neutrik Speakon NL4MP linked
Construction	18 mm birch plywood, internally reinforced
Finishing	paint finish
Cabinet Colour	black
Mounting Pole	1 x lateral
Dimensions (W x H x D)	58.4 x 39.4 x 61.9 cm
Weight	33 kg (72.7 lb)



EDGE12CXP

System Type	coaxial 2-way vented enclosure
Nominal Impedance	8 Ω
Input Power Rating (AES)	450 W (450 W + 75 W bi-amp)
Input Power Rating (program)	900 W (900 W + 150 W bi-amp)
Frequency Response	75 Hz - 20 kHz (±6 dB)
Sensitivity	98 dB SPL (2.83 V @ 1 m) LF 109 dB SPL (2.83 V @ 1 m) HF
Maximum (peak) Output	127 dB @ 1 m
Low Frequency Device	12" woofer - 3" voice coil - 8 Ω
High Frequency Device	1.5" compression driver - coaxial - 8 Ω
Coverage Angle H. (-6 dB)	65° average, 630 Hz to 20 kHz
Coverage Angle V. (-6 dB)	65° average, 630 Hz to 20 kHz
Monitor Taper	42°
Directivity Index (DI)	12.4 average, 630 Hz to 20 kHz
Constant Voltage Transformer	-
Signal Processing	Proel DSO480
Flying System	4 x M10 lateral
Connectors	2 x Neutrik Speakon NL4MP linked
Construction	18 mm birch plywood, internally reinforced
Finishing	paint finish
Cabinet Colour	black
Mounting Pole	1 x lateral
Dimensions (W x H x D)	43.5 x 39.4 x 61.9 cm
Weight	25 kg (55.1 lb)



EDGE8CXP

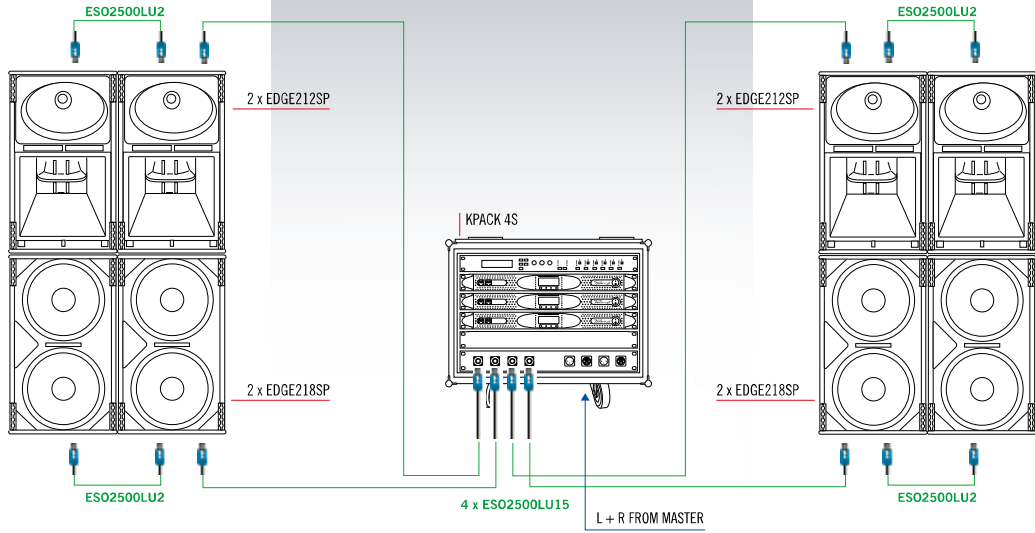
System Type	coaxial 2-way vented enclosure
Nominal Impedance	8 Ω
Input Power Rating (AES)	225 W
Input Power Rating (program)	450 W
Frequency Response	80 Hz - 20 kHz (±6 dB)
Sensitivity	95 dB SPL (2.83 V @ 1 m)
Maximum (peak) Output	-
Low Frequency Device	121 dB @ 1 m
High Frequency Device	8" woofer - 2" voice coil
Coverage Angle H. (-6 dB)	85° averaged, 1 kHz to 20 kHz
Coverage Angle V. (-6 dB)	85° averaged, 1 kHz to 20 kHz
Monitor Taper	45°
Directivity Index (DI)	9.7 averaged, 1 kHz to 20 kHz
Constant Voltage Transformer	optional 100V EDGE8CXTB (Black) and EDGE8CXTW (White)
Signal Processing	-
Flying System	4 x M10 - top, bottom, rear
Connectors	2 Neutrik Speakon NL4MP linked
Construction	15 mm birch plywood
Finishing	paint finish
Cabinet Colour	black EDGE8CXPB, white EDGE8CXPW
Mounting Pole	1 x bottom
Dimensions (W x H x D)	26 x 33 x 28 cm
Weight	10 kg (22.1 lb)



EDGE25P

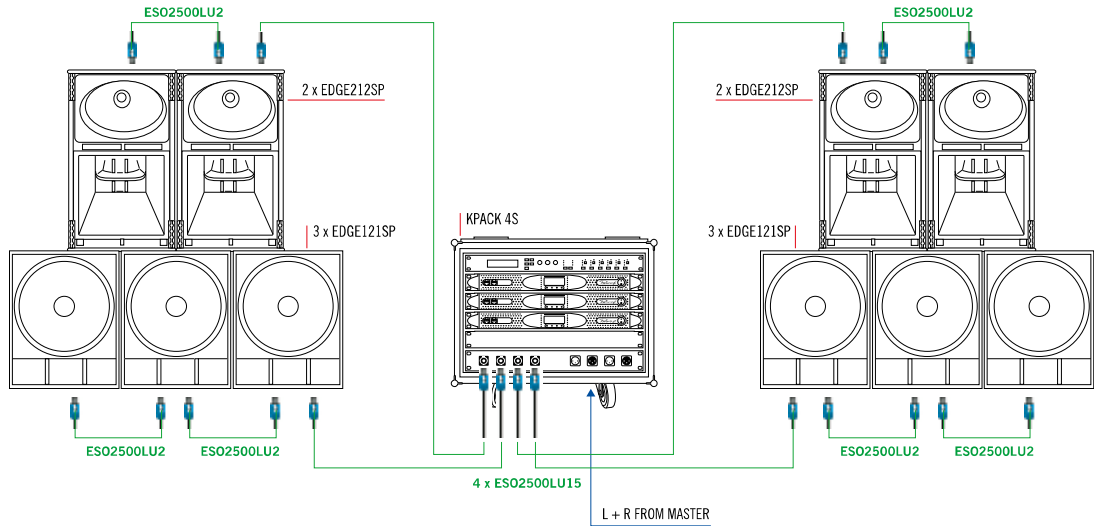
System Type	2-way vented enclosure
Nominal Impedance	16 Ω
Input Power Rating (AES)	100 W
Input Power Rating (program)	200 W
Frequency Response	125 Hz - 20 kHz (±6 dB)
Sensitivity	93 dB SPL (4 V @ 1 m)
Maximum (peak) Output	-
Low Frequency Device	116 dB @ 1 m
High Frequency Device	2 x 5.25" woofer
Coverage Angle H. (-6 dB)	dome tweeter with spherical waveguide horn
Coverage Angle V. (-6 dB)	80° averaged, 1 kHz to 20 kHz
Monitor Taper	65° averaged, 1 kHz to 20 kHz
Directivity Index (DI)	20°
Constant Voltage Transformer	10 averaged, 1 kHz to 20 kHz
Signal Processing	optional 100V EDGE25TB (Black) and EDGE25TW (White)
Flying System	-
Connectors	2 x M8 - top, bottom 1 x M10 - rear
Construction	2 x Neutrik Speakon NL4MP linked
Finishing	15 mm birch plywood
Mounting Pole	paint finish
Cabinet Colour	black EDGE25PB, white EDGE25PW
Dimensions (W x H x D)	-
Weight	17.6 x 46 x 19 cm
Weight	7 kg (15.4 lb)

SET-UP EXAMPLE



AMPLIFIER PACKS

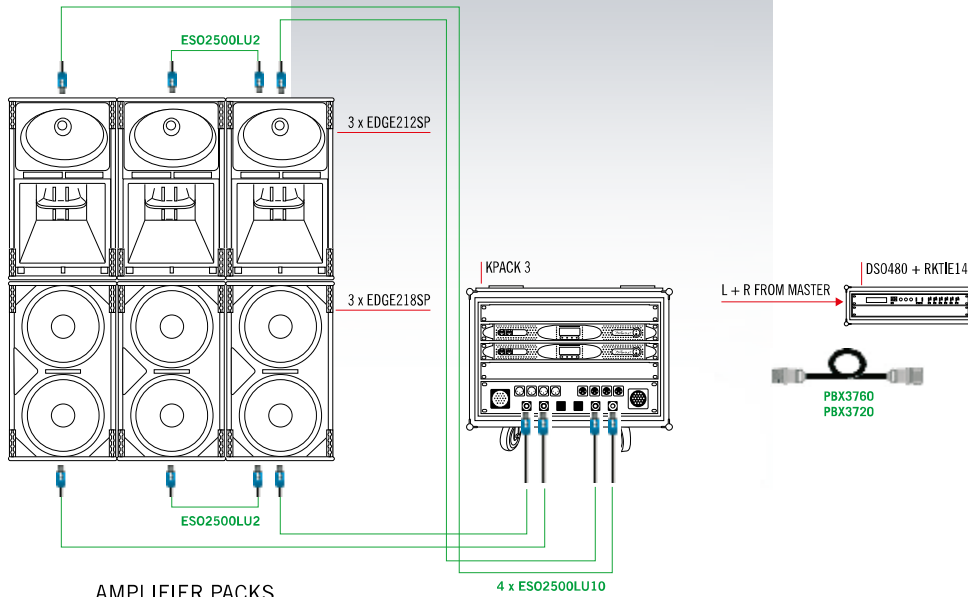
KPACK 4S	
DSO480	Digital Signal Processor 4 IN / 8 OUT
PS K6	2 x 3,600 Watt 2 ohm power amplifier
PS K6	2 x 3,600 Watt 2 ohm power amplifier
PS K10	2 x 6,000 Watt 2 ohm power amplifier
CRK115P	IN/OUT panel
CSP9932	power panel 32 A plug
CP047A02	6 U professional rack case



AMPLIFIER PACKS

KPACK 4S	
DSO480	Digital Signal Processor 4 IN / 8 OUT
PS K6	2 x 3,600 Watt 2 ohm power amplifier
PS K6	2 x 3,600 Watt 2 ohm power amplifier
PS K10	2 x 6,000 Watt 2 ohm power amplifier
CRK115P	IN/OUT panel
CSP9932	power panel 32 A plug
CP047A02	6 U professional rack case

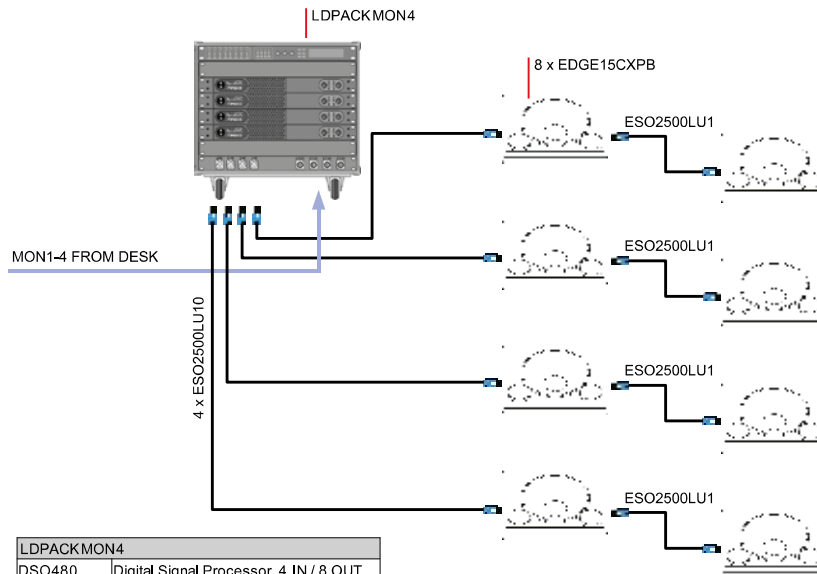
SET-UP EXAMPLE



AMPLIFIER PACKS

KPACK 3	
PS K6	2 x 3,600 Watt 2 ohm power amplifier
PS K10	2 x 6,000 Watt 2 ohm power amplifier
CRK404PS	IN/OUT panel
CSP9932	power panel 32 A plug
CP047A02	6 U professional rack case

* only one side is shown



LDPACKMON4	
DSO480	Digital Signal Processor 4 IN / 8 OUT
PS LD3004	2 x 2,700 Watt 2 ohm power amplifier
PS LD3004	2 x 2,700 Watt 2 ohm power amplifier
PS LD3004	2 x 2,700 Watt 2 ohm power amplifier
PS LD3004	2 x 2,700 Watt 2 ohm power amplifier
CRK115P	IN / OUT panel
CSP9932M	power panel 32 A mono plug
CR308P	8 U professional rack case



EDGE COMPACT

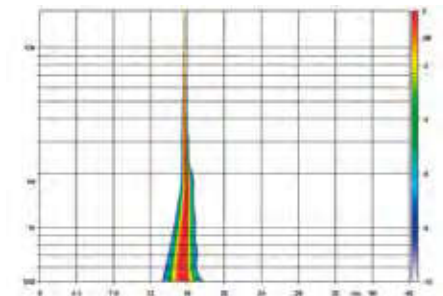
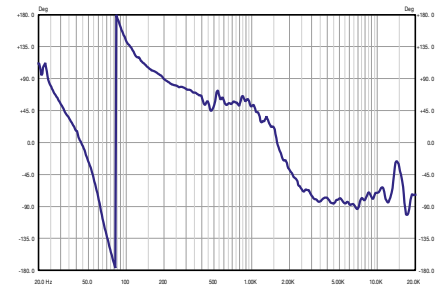
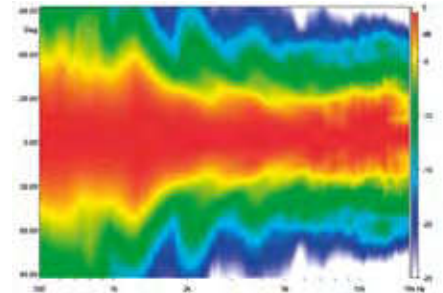
The EDGE Compact Series systems are powerful instruments for both permanent installations and touring applications. They can be employed to compose particularly compact and versatile systems, fit for small or medium size concert and listening areas where you need accurate levels of sound quality. They can also be used as auxiliary systems in large installations, such as for coverage of the first rows in theatres, or of the space under balconies and grandstands, and for locations requiring extremely compact and discrete speakers. Furthermore, they can be employed as main components in scalable systems spread in convention centres or in places of worship. Thanks to their compact size and sound quality and to their unexpected sound pressure capability, they are suitable for TV broadcast applications as well. The EDGE Compact Series comprises 3 medium size 3-way speaker systems – EDGE12CP, EDGE15CP and EDGE210CP – designed for bi-amplification, and a fourth small size system, EDGE65CP, which features an internal passive filter.

EDGE210CP is the only medium size system which, on request, can be equipped with an internal passive filter.

The C12P, C15P and C210P models have been designed to be used either singularly or in combination. In fact, they use the same high frequency unit and the same horns, as well as most of the technology and materials employed for the bass frequency enclosures.

These three systems have been designed to yield the same phase response and the same constant frequency response, and thereby the same timbre balance. Thus, it is very easy to combine these systems in the same application, and once a few basic functions – power levels, relative delays and mechanical angles – have been adjusted, the result is an amazing timbre uniformity for the whole listening area.

Each system operates full-range and can be used in a variety of applications that do not require too much energy nor low-end extension. Nonetheless, were these features needed, the simultaneous employment of subwoofer EDGE121SP would allow a 3-way systems to generate high enough sound pressure levels for any application, including live concerts and large discotheques. Subwoofer NEOS218SP can also be used to support these systems for bass frequencies.



Studies conducted by the PROEL SRT lead to an original and specific design technique for crossovers, which allows the optimisation of the off-axis response stability, remarkably reducing

“lobing” at the crossover frequency. At the same time it grants a homogeneous phase response, with a very limited total phase shift in comparison with that deriving from conventional alignments.

This feature considerably increases the coherence of the impulse response.

EDGE65P



- New rotatable horn with 70° x 50° coverage
- HF driver with high-power voice coil
- Low profile, ideal for television and theatre applications
- Audiophile quality passive crossover network

The model in the series that yields the best performance/size ratio is doubtlessly the EDGE65CP, thanks to its 6.5” woofer and 1” throat driver. The new large-size, rotatable wave guide guarantees a nominal angular coverage of 70° x 50° (H x V), particularly stable in the mid-high range. In this frequency range this allows a good coverage of well defined areas and

avoids sending energy where it is not required. The woofer grants an extended and controlled response with exceptional dynamic capacity, while the progressive rubber suspension controls excursion at bass frequencies while preserving the stability of cone behaviour, even at higher frequencies. Parallel configurations yield better results thanks to the 8-ohm impedance of the speakers and to their passive filter. Total frequency response ranges from 85 Hz upwards, and, whenever needed, bass frequency support can be provided by the EDGE 112SP subwoofer.



EDGE C12P



EDGE C15P



EDGE C210P



C12P, C15P and C210P are 2-way bi-amplifiable speaker systems. They feature woofers with a cone reinforced with carbon fibre, a single demodulating ring (SDR) and a water repellent protection treatment. For the high frequencies they use a large format 1.5" driver with a ferro-fluid cooled coil on a rotatable horn. This high frequency driver is combined with a progressive constant-directivity thick aluminium waveguide to obtain excellent directivity control, balanced frequency response and low distortion, which means high-end reproduction of outstanding quality. The systems can be equipped with a

waveguide featuring a nominal 60°x40° (H x V) coverage or, on request, with a waveguide with a nominal 90°x60° (H x V) coverage. The angular coverage can be changed at any time just by replacing the waveguide.

- New rotatable horns, available with 60° x 40° or 90° x 60° dispersion
- Moving coils with high power handling
- Woofer with extended performance at bass frequencies

	EDGE C65P	EDGE C12P64 / C12P96	EDGE C15P64 / C15P96	EDGE C210P64 / C210P96
System Type	2-way full range bi-amp	2-way full range bi-amp	2-way full range bi-amp	2-way full range bi-amp
Nominal Impedance	8 Ω + 8 Ω	8 Ω + 8 Ω	8 Ω + 8 Ω	8 Ω + 8 Ω
Input Power Rating (AES)	250 W + 60 W (250 W passive)	800 W + 100 W	800 W + 100 W	800 W + 100 W (800 W passive)
Input Power Rating (program)	500 W + 120 W (500 W passive)	1600 W + 200 W	1600 W + 200 W	1600 W + 200 W (1600 W passive)
Frequency Response	85 Hz - 18 kHz (-3 dB, +6 dB)	60 Hz - 18 kHz (-3 dB, +6 dB)	50 Hz - 18 kHz (-3 dB, +6 dB)	65 Hz - 18 kHz (-3 dB, +6 dB)
Sensitivity	94 dB SPL (2.83 V @ 1 m) LF 108.5 dB SPL (2.83 V @ 1 m) HF	98 dB SPL (2.83 V @ 1 m) LF 110 dB SPL (2.83 V @ 1 m) HF	99 dB SPL (2.83 V @ 1 m) LF 110 dB SPL (2.83 V @ 1 m) HF	99 dB SPL (2.83 V @ 1 m) LF 110 dB SPL (2.83 V @ 1 m) HF
Maximum (peak) Output	120 dB @ 1 m (passive)	130 dB @ 1 m	132 dB @ 1 m	131 dB @ 1 m (passive)
Low Frequency Device	6.5" neodymium woofer - 2" voice coil	12" neodymium woofer - 4" voice coil	15" neodymium woofer - 4" voice coil	2 x 10" neodymium woofer - 3" voice coil
High Frequency Device	1" neodymium compression driver	1.5" neodymium driver - 3" voice coil	1.5" neodymium driver - 3" voice coil	1.5" neodymium driver - 3" voice coil
Coverage Angle H. (-6 dB)	70°	60° or 90°	60° or 90°	60° or 90°
Coverage Angle V. (-6 dB)	50°	40° or 60°	40° or 60°	40° or 60°
Trapezoidal Taper	15°	20°	20°	20°
Signal Processing	Full range - Proel DS480	Proel DS480	Proel DS480	Full range - Proel DS480
Flying System	4 x M10	Fly Track	Fly Track	Fly Track
Connectors	2 x Neutrik Speakon NL4MP linked	2 x Neutrik Speakon NL4MP linked	2 x Neutrik Speakon NL4MP linked	2 x Neutrik Speakon NL4MP linked
Construction	trapezoidal, 15 mm birch plywood, internally reinforced	trapezoidal, 15 mm birch plywood, internally reinforced	trapezoidal, 15 mm birch plywood, internally reinforced	trapezoidal, 15 mm birch plywood, internally reinforced
Finishing	paint finish	paint finish	paint finish	paint finish
Cabinet Colour	black - white	black - white	black - white	black - white
Monitor Taper	41°			
Mounting Pole	1 x bottom	1 x bottom	1 x bottom	1 x bottom
Dimensions (W x H x D)	26 x 42 x 20 cm	41 x 63 x 37 cm	47 x 73 x 46 cm	36 x 86 x 32 cm
Weight	9.5 kg (20.9 lb)	27.2 kg (59.9 lb)	36.7 kg (80.9 lb)	32.7 kg (72.1 lb)