

EDGE C65P

Features

- Rotatable horn with 70° x 50° coverage
- High power driver Voice Coil
- Low profile, ideal for television and theatre applications
- Audiophile passive crossover network with Bi Amplification option

Description

The EDGE C65P is a 2-way, low profile system with a rotatable horn. The bass section is equipped with a 6.5" speaker cone treated for exposure to the elements and an optimized heat sink for optimised heat dissipation, granting an extended and controlled response with exceptional dynamic capacity. The progressive rubber suspension controls excursion at bass frequencies while preserving the stability of cone behaviour, even at higher frequencies. The 1" compression driver was designed to be used in situations where the highest quality of sound is compulsory. The new wave guide has been designed in order to obtain a smooth frequency response maintaining constant coverage and directivity pattern as well as avoiding the midrange narrowing effect and high frequency beaming problems - very common defects with many products available on the market. The die cast aluminium construction brings advantages in terms of both thermal and mechanical performance. Parallel configurations yield better results thanks to the 8 Ohm impedance of the speakers and to the passive filter. Total frequency response ranges from 85Hz upwards, and whenever needed, bass frequency support can be provided by subwoofer EDGE 112SP.



Technical Characteristics

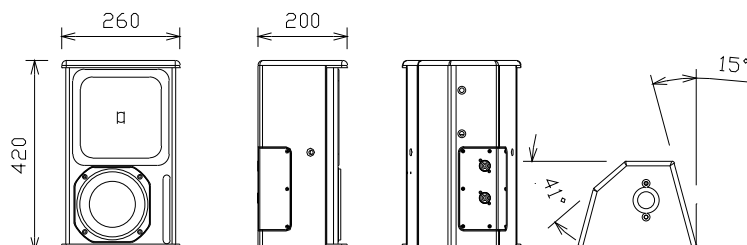
System	
System Type	2-way vented enclosure
Frequency Response	85 Hz - 18 kHz (± 6 dB)
Coverage Angle H. (-6 dB)	70° average, 630 Hz to 18 kHz
Coverage Angle V. (-6 dB)	50° average, 630 Hz to 18 kHz
Directivity Index (DI)	6 average, 630 Hz to 18 kHz
Maximum Peak Output	120 dB @ 1m
Signal Processing	Proel DSO26 - DSO480 (biamp)
Input Power Rating	250 W AES, 500 W program
Sensitivity	94 dB SPL (2.83 V @ 1m)
Nominal Impedance	8 Ω
Transducers	
Low Frequency Device	6.5" woofer - 2" voice coil
Nominal Impedance	8 Ω
Power Rating	250 W AES, 500 W program
Sensitivity	94.5 dB SPL (2,83 V @ 1m)
High Frequency Device	1" compression driver
Nominal Impedance	8 Ω
Power Rating	60 W AES, 120 W program
Sensitivity	108.5 dB SPL (2,83 V @ 1m)
Mechanical Data	
Construction	monitor (41°) 15 mm birch plywood, internally reinforced with paint finish
Flying Points	5 x M8 top, bottom, lateral
Mounting Pole	1 x botom
Dimensions (WxHxD)	26 x 42 x 20 cm
Weight	9.5 kg

Architects' and Engineers' Specifications

The system shall be a passive two way with a frequency response of 85 Hz to 18 kHz and a constant coverage angle of 70°H x 50°V. The system shall have an 8 ohm driver with a 1,4" diaphragm and a power handling of 60 W AES. The system shall have an 6.5", 8 ohm, bass speaker with a 2" voice coil and a power handling of 250 W AES loaded in a bass reflex configuration. The speaker shall be provided laterally with 4 x M10 attachment points and with a top-hat for mounting on a speaker stand. The speaker shall be constructed from 15 mm Birch plywood reinforced internally in an asymmetric trapezoid shape with a monitor angle of 41°. The height shall be 42 cm, width 26 cm and depth of 20 cm. The system shall be the Proel EDGE C65P.

3. Technical specifications

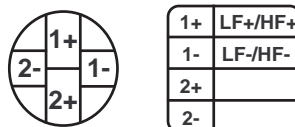
Dimensions



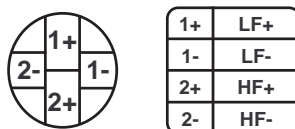
Connections

The C65P can work in two modes: Full range or Bi-amp. In the bi-amplified mode, the internal crossover filter is disconnected and it is therefore necessary to use the DSO26 or DSO480 processor as crossover filter and protection of the components. In Full range mode, the internal crossover is connected. The EDGE12CXP gives the best performance in the Bi-amp mode with the DSO26 or DSO480 processor.

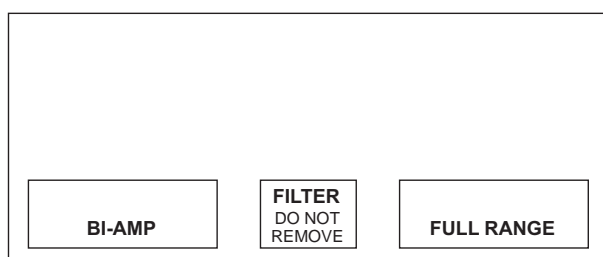
FULL RANGE:



BI-AMP:



The two Neutrik Speakon NL4MP are ever connected in parallel. When the FULL RANGE mode is selected, the Speakon connectors take the signal from the 1+ and 1- pins and send this signal to the internal passive crossover. When the BI-AMP mode is selected, the connectors take the LF signal from the 1+ and 1- pins and the HF from the 2+ and 2- pins. In this case, the passive crossover is by-passed and therefore it is necessary to use the Proel DSO26 or DSO480 digital processor to filter the signal sent to the transducers for correct operation and not be damaged.

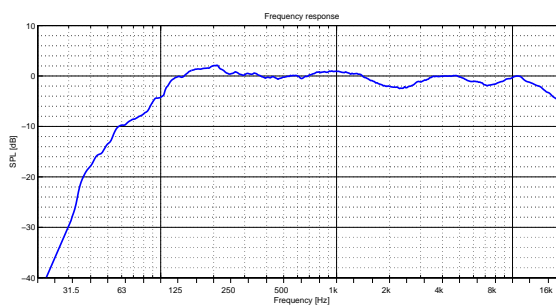


To select the operational mode of the monitor it is necessary to open the connection panel. Remove the internal connector from the FULL RANGE position to BI-AMP and vice-versa. Do not move, for any reason, the central FILTER connection.

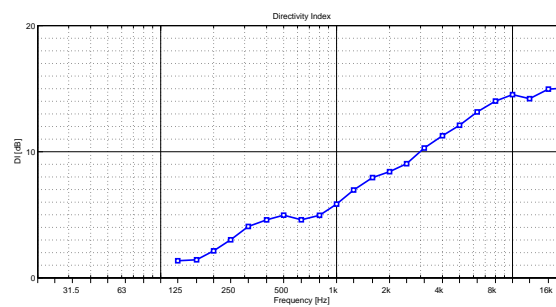
3. Technical specifications

Graphics

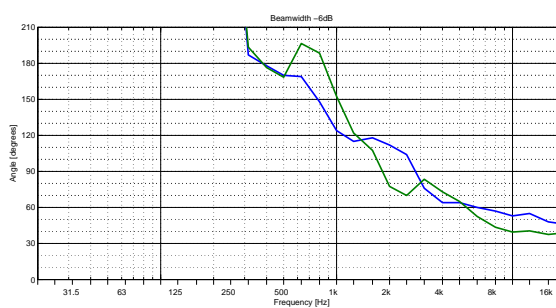
Frequency response:



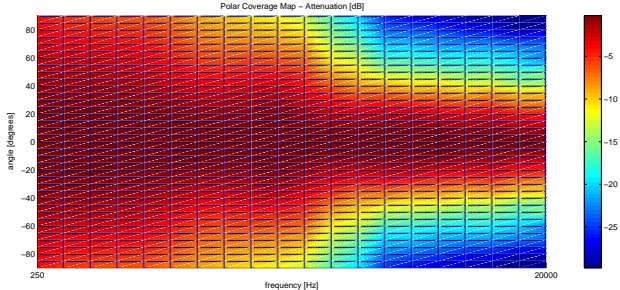
Directivity index:



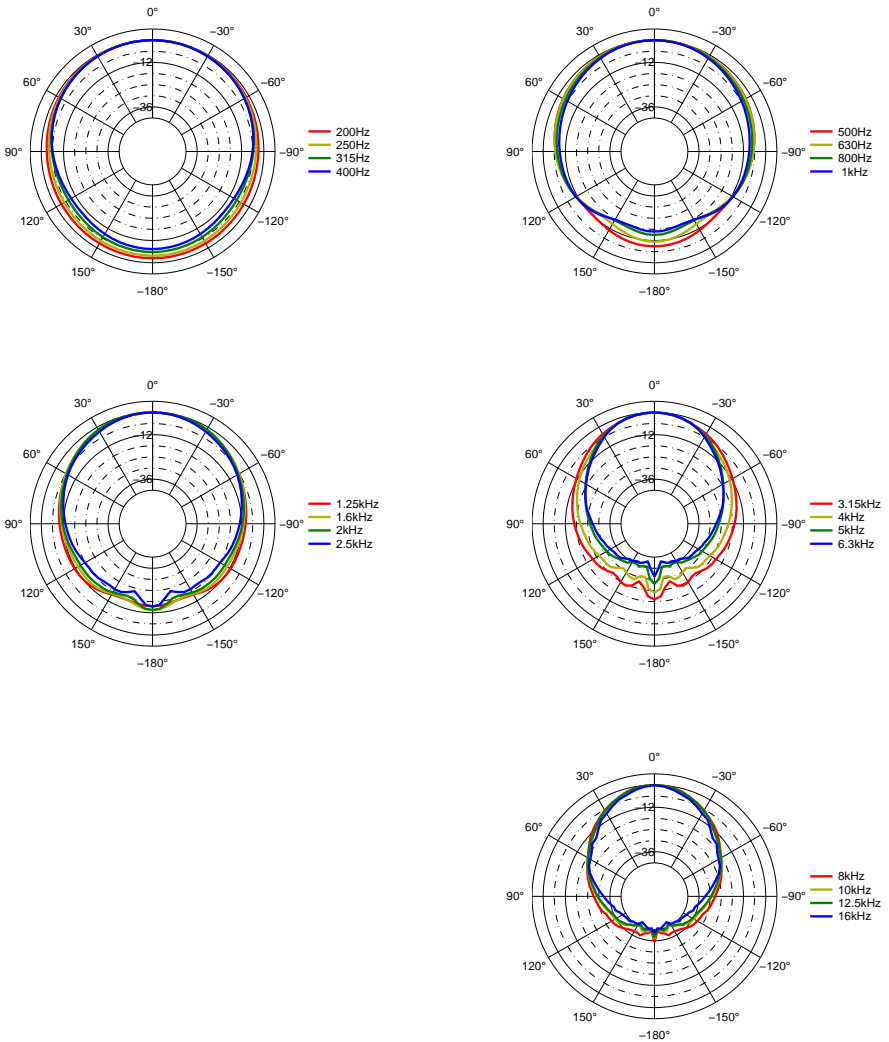
Beamwidth diagram (-6 dB):



Attenuation map (horizontal):

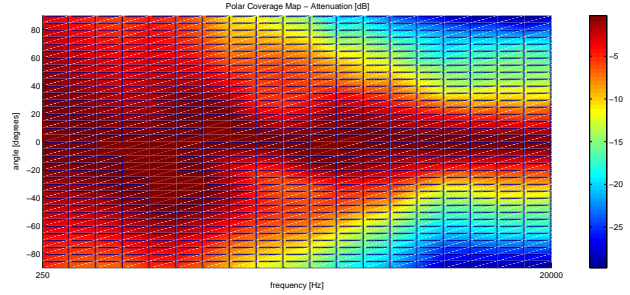


Polar diagram (horizontal):



3. Technical specifications

Attenuation map (vertical):



Polar diagram (vertical):

