The II2P enclosure is the versatile model within the L-ACOUSTICS® self powered coaxial P range. Operating over a frequency bandwidth from 50 Hz to 20 kHz, this can be lowered to 40 Hz with the addition of the recommended SB15P self-powered subwoofer.

DESCRIPTION

The I12P enclosure contains a passive coaxial configuration consisting of a 3" diaphragm compression driver loaded onto a 12" low frequency transducer integrated into a compact low profile bass-reflex tuned enclosure. This coaxial transducer arrangement produces a 90° axi-symmetric directivity output along with a smooth tonal response free of any acoustic conflicts over the entire frequency range, resulting in exceptional immunity to feedback especially in monitoring situations.

The system contains a speaker management DSP and a single channel power amplification module. The digital filter manages the system crossover network, driver time alignment, and thermal protection of the loudspeaker components. The unique linearization drive characteristic of the transducers is a result of comprehensive parameter management functions by the DSP.

With a cabinet angle settings of 30° with regard to the vertical the wedgeshaped cabinet design makes the 112P perfectly suited to stage monitoring, FOH, and all other sound reinforcement applications. Made of high grade Baltic birch plywood, the cabinet also features a pole mount socket, and the optional ETR12 bracket can be used for flown applications.

The 112P enclosure is optimized by the built-in DSP for 4 different presets:

- The [FRONT] preset for main FOH system applications
- The [FILL] preset for complimentary system applications
- The [MONITOR] preset when for stage monitor applications
- The [XOVER] preset for use with the SBI5P compact subwoofer.

The performance of the II2P enclosure depends upon the choice of preset and the physical configuration of the system.

CHARACTERISTICS Useable bandwidth (-10dB) 50 - 20k Hz Nominal directivity (-6dB) 90° (\pm 20°) Axi-symmetric SPL Max levels 1 121 dB (cont) 127 dB (peak) I x I I 2P ([Fill] preset) Components I x I2" weather-resistant transducer HF: I x 3" diaphragm compression driver Electrical specifications

Input stage: balanced input, max level for 0 dB setting: + 12 dBu

24 bit/48k Hz DSP:

I x 1000 W (8 ohms) Amplifier power rating:

Physical data

H x W x D: 540 x 410 x 390 mm

 $21.3 \times 16.1 \times 15.4$ in

Wedge angle: 30° with regard to vertical Weight (net): 32 kg 70.5 lb. Connectors: 2 x XLR in parallel,

2 x Powercon® 120 or 230 V selectable by switch Material: 18, 24 mm and 30 mm Baltic birch plywood

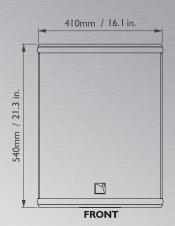
Finish: grayish-brown RAL 8019® Front:

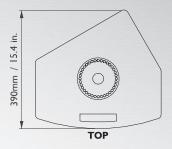
sandblast-coated steel grill, acoustically transparent "Airnet" black cloth

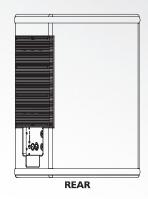
integrated pole mount socket, optional ETR12 bracket Rigging:

I Max SPL at Im under freefield conditions using pink noise with specified preset and corresponding EQ settings.









The L-ACOUSTICS® self-powered coaxial range offers a complete integrated system approach and has been designed to fulfil the highest audio expectations for a broad range of professional sound reinforcement applications. Drawing upon two decades of experience since the introduction of the original MTD coaxial series concept in 1987, the P series deliver an outstanding and unsurpassed level of performance in its category. This compact and versatile package combines all the benefits of on board amplification, digital signal processing (DSP), and contemporary coaxial transducer technology. The P series covers the needs of both the fixed installation and mobile application markets. The system range and components are as follows:

- 108P live monitoring enclosure
- 112P multi-purpose enclosure
- SBI5P compact high power subwoofer.

The main advantages of coaxial technology include single point-source radiation combined with excellent phase response, total wavefront coherency at all frequencies, and axi-symmetrical directivity which produces identical coverage patterns in both the horizontal and vertical planes. The coaxial design also provides LF/HF superimposed dispersion characteristics that are free from polar lobing effects which are destructive in traditional horn and woofer combinations. The end-result is natural studio monitor sound quality which is ideal for both proximity monitoring use and semi-reverberant environments.

The P coaxial range features the latest generation of transducers and cutting-edge electro-acoustics engineering design. The end result is an outstanding sonic performance with an aural sensation of natural and transparent sound even at the highest listening levels. Setting up P enclosures is quick and easy due to the unique integrated flying hardware system which ensures precision, safety, and full compatibility with current rigging safety standards. The ability to daisy-chain signal and power links and to trim output gains via the onboard volume control also facilitates set up times.

Due to their compact wedge-shaped formats the 108P and 112P are equally suited to various sound reinforcement roles including front of house, floor monitor, side fill, and distributed system applications.

The built in combination of a high efficiency amplification module and a DSP digital speaker management system simplifies the logistics for rental businesses with regard to easier storage, handling, transportation, and inventory management. For the fixed installation market the self-powered solution drives down the installation and system set-up costs without compromising on audio performance.

As well as delivering cutting edge audio quality, the integrated amplification and DSP module offers comprehensive transducer protection, precise system drive engine, and optimized on board preset library. The presets are instantly accessible and provide the sound designer with total creative freedom for any conceivable application. In addition, for more demanding low-end reinforcement the SB15P compact subwoofer can be integrated as part of a 2 or 3 way system. Up to 4 P cabinets can be daisy-chained with the integrated A/C POWERCON® extension.







• 112P

Multi-purpose, self-powered 2 way enclosure, 50 - 20k Hz I x 12" LF transducer + I x 3" HF compression driver 90° Axi-symmetric directivity Amplifier DSP 24 bit/48 kHz, I x 1000 W

108P

Self-powered, active 2 way live monitoring enclosure 55 - 22k Hz I x 8" LF transducer + I x I.5" HF diaphragm compression driver 100° Axi-symmetric directivity Amplifier/DSP 24 bit/48 kHz, I x 500 W (LF), I x 250 W (HF)

• SRISP

Self-powered compact subwoofer, LF limit 40 Hz I \times I5" LF transducer Amplifier DSP 24 bit/48 kHz, I \times I000 W

• ETR12, ETR8-2, ETR15P

Adjustable rigging brackets for 112P, 108P, SB15P



SYSTEM CONFIGURATIONS

The integrated DSP flexibility of the P range allows multiple configurations dependent upon the chosen models and application. Typically, each model within the P range can be deployed as a main [FRONT], auxiliary [FILL], or stage [MONITOR] system. In addition should additional LF extension be required the [XOVER] preset can be selected and the 108P and 112P can then be used in combination with the companion SB15P subwoofer.

The integrated DSP presets optimize the acoustic performance of the P system and the driver protection circuit. The preset library is constituted as follows:

P range available presets

108P or 112P	Characteristics	Application
[FRONT]	LF HF Pre EQ	FOH w/o subwoofer
[FILL]	Flat response curve	Fill, proximity
[MONITOR]	LF EQ, ½ space loading	Stage Monitor
[XOVER]	100 Hz High Pass filter	Use with SB15P

