

ACCESSORIES



TECHNICAL SPECIFICATIONS

		MODUS 40	MODUS 15	MODUS SUB
Configuration	way	2	2	band pass
Recommended Amplifier (LF / HF)	W rms	1600 (1600 / 400)	1600 (1600 / 400)	1800
Long Term Power (LF / HF)	W	1000 (1000 / 200)	1000 (1000 / 200)	1000
Short Term Power IEC 268-5 (LF / HF)	W	3200 (3200 / 800)	3200 (3200 / 800)	3600
Nominal Impedance (LF / HF)	Ohm	2 (2 / 4)	2 (2 / 4)	4
Frequency Response	-6dB	58Hz - 18kHz	58Hz - 18kHz	38Hz - 200Hz
Low Frequency Woofer	inch	8 x 8" - 2" coil - neodymium	8 x 8" - 2" coil - neodymium	2 x 15" - 4" coil - neodymium
High Frequency Driver	inch	8 x 1" / 1.7" coil	8 x 1" / 1.7" coil	-----
Sensitivity @1W, 1m (LF / HF)	dB	105 (105 / 108)	105 (105 / 108)	103
Max SPL (LF / HF)	dB	138 (138 / 134)	138 (138 / 134)	141 half-space
Dispersion	H x V	90° x 40°	90° x 15°	omnidirectional
Crossover Frequency	kHz	1.2	1.2	90Hz external
Recommended HP Filter		40Hz - 24dB oct	40Hz - 24dB oct	32Hz - 24dB oct
Recommended External Filter		-----	-----	LP 90Hz - 24dB oct
Input Connectors		2 x Speakon NL4	2 x Speakon NL4	2 x Speakon NL4
Net Dimensions (WxHxD)	mm inch	713 x 980 x 490 28 x 38.5 x 19	713 x 980 x 460 28 x 38.5 x 18	713 x 713 x 836 28 x 28 x 33
Net Weight	kg lbs	76 167.5	80 176	80 176

FBT

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MODUS

Precision Coverage Vertical Array

PRELIMINARY



FBT

Professional Audio Equipment

FBT marks its entry into the world of the line-array with an innovative system offering all of the latest developments in true full-range line-array technology to those users so far forced to use traditional systems because of the high cost and of the difficulty of use of other line array systems. Our solution involves grouping four modules in a single enclosure no bigger than one traditional 2-way horn enclosure, producing vertical and horizontal dispersion patterns already optimized to effectively meet a broad range of sound reinforcement requirements, from small/mid live touring to permanent installations. The new **FBT MODUS** series modules (Precision Coverage Vertical Array) are very competitive and extremely easy to use. No compromise has been made in terms of quality or performance.

The absence of disruptions in the source of the upper-mid frequencies (inevitable in multi-enclosures array applications) and the definition of the vertical angle coverage at the project development phase, allow improved evenness and coherence of the wavefront through the waveguide, perfectly modelling a cylindrical wave.

The system is composed of two line-array enclosures, **MODUS 15** and **MODUS 40** and one band-pass subwoofer, **MODUS SUB**, all flyable thanks to user-friendly built-in hardware. The two array modules have different shapes in order to cover 90 x 40 and 90 x 15 dispersion angles, and can be used either singularly or in couples to form a J-Array able to evenly provide 90 horizontal and 55 vertical angles. The **MODUS SUB** subwoofer can be suspended or stacked, and provides a system for use where extreme low-frequency sound is required. Although the maximum performance is obtained when suspending the array modules, it is also possible to ground-stack the **MODUS 15** and **MODUS 40** with an optional stand base, or to overlap one **MODUS 15** to the **MODUS SUB**.

MODUS 40



MODUS 15



MODUS SUB



- 2 way true line-array system in bass-reflex
- 13-ply (18mm / 0.71") birch plywood enclosure with for suspension. Extra textured anti-scratch paint finish...
- 8 units custom neodymium 8" (200mm) woofers with 2" (50mm) voice coil granting high excursion and power handling
- 8 units custom 1" compression driver coupled to waveguide with a 90° dispersion horn
- 15° vertical coverage angle MODUS 15 and 40° for MODUS 40
- Mechanical hardware for suspension.
- Full line of accessories for suspension, ground-stacking or over the MODUS SUB facilities.
- High-quality passive crossover network grafting maximum reliability with built-in soft thermal protection for the components with autoreset
- Bi-amp or full range passive mode selection from the rear panel.
- Performances comparable to high-end touring line-array at an extremely competitive price
- Extended frequency response to 58Hz allows mid-SPL applications without subwoofer

- Sub-woofer system in band-pass configuration
- 13-ply (18mm / 0.71") birch plywood enclosure with integrated handles and mechanical hardware for suspension. Extra textured anti-scratch paint finish.
- 2 x 15" (380mm) B&C® custom woofers in push-pull, with 4" (102mm) extra-high performance voice coil
- Extended frequency response until 38Hz
- The particular type of acoustic load allows drastic reduction in distortion and freemovement of the cone providing a high SPL and the highest degree of reliability
- MODUS SUB can be suspended or ground-stacked with a MODUS 15 or 40.
- 4 optional castors are available for transport. An optional wheel trolley is also available for easy touring applications

The generation of a wavefront with coherent high frequencies and free of destructive interference between sources, is possible through the application of waveguides capable of modifying the shape of the speaker's wavefront from spherical to cylindrical. The methods of forming a substantially isophase wavefront adopted by the major manufacturers involves creating multiple paths between the compression driver exit and the radiation slot, causing different arrival times. This causes reflections and static waves that degrade the quality of the sound, adding ripple in the frequency response these are not easy to compensate for even with extreme equalization. The solution adopted in the MODUS is totally free from multiple paths: the curving of the wavefront being obtained by a deeper development of the waveguide, thus maintaining the nature of typical emission of the classic constant-directivity horn that all we know.



CONFIGURATIONS



APPLICATIONS

Fixed Installations:
theatres, concert halls, clubs, discotheques, houses of worship, conference halls, sports arenas, stages, stadiums

Live events sound reinforcement:
touring, bands, orchestras, outdoor and indoor conferences where even sound pressure level is required