

BOMBER

FEATURES

- Compact powerful (141dB peak SPL@ 1 m) enclosure for biamping, with a 18" (LF) woofer in twin reflex configuration, a 15" (LF) reflex tuned woofer, a 10" (MF) midrange and a 3" diaphragm (HF) compression driver, both horn loaded; ferrofluid cooled HF section voice coil.
- Great low-end power from 43Hz, for use without additional subwoofers.
- The mid/high group can be turned through 90° on its axis to enable the unit to be used horizontally as a very powerful side-fill on stage, either hung or floor installed.
- Biamping and control via dedicated digital processor.
- Cabinet reinforced internally for the utmost sturdiness, also eliminating coloration due to resonance, and equipped with Outline's proprietary "Fast Hanger" system for fast reasonably priced flying.

APPLICATIONS

- Medium/short throw system. A few units are ideal for live use in no-nonsense applications such as front-fill, side-fill on stage and also as drum monitors; in medium sized concerts, with groups, bands and orchestras.
- Permanent high quality installations in theatres, clubs, indoor sports arenas, ideal for use along with Outline subwoofers for further extension of the bottom end and therefore greater dynamics.

DESCRIPTION

Bomber is a compact professional full-range loudspeaker system for biamping, comprising a low frequency section using a 18" woofer in double reflex configuration along with a 15" NdFeB woofer acoustically coupled in direct radiating reflex loading, a mid/high section with a built-in passive crossover using a high efficiency 10" woofer loaded by a mid frequency horn with a low compression ratio and a bottom cut-off frequency of approximately 150Hz, using a compression driver with a 1.41" throat and 3" titanium diaphragm for the high frequencies, loaded by a constant directivity horn manufactured from a single piece of fibreglass that could be rotated by 90°, closely coupled with the former in a single square output mouth. The crossover between mid and high frequencies is a low-loss unit with built-in overload protection. The system's uniform directivity from 500Hz to 4kHz has an average dispersion of 90° horizontal and 75° vertical and average wide-range sound coverage from 500 Hz to 10 kHz is 90° horizontal and 65° vertical. The acoustic reproduced bandwidth is 43 Hz to 20 kHz at -10 dB. The frequency response of the complete system is ±3dB from 52 Hz to 19.2 kHz. Flown in free-field it has high average wide-range sensitivity, producing 102 dB SPL 1W/1m, (138dB SPL peak). When biamplified, the system has high sensitivity for the low section 102dB SPL at 1m, 107dB SPL at 1m for the mid-high section at 1m. Driven at maximum peak power, each section is able to produce a maximum peak of 141dB SPL (low-half space) and 140dB SPL (mid-high) at 1m. The maximum allowed power for each section is 1,000 Watt AES (4,000 peak) for basses and 450 Watt AES (1,800 peak) for mid-high. The enclosure cabinet has 6 fast hanging points, interconnected by internal steel bars, has a trapezoidal shape and is built by high quality 15 mm. baltic phenolic glued plywood while the outer finish is in scratch-resistant, waterproof black paint. The front of the enclosure has recessed sockets for fitting the optional trolley, used for handling and protecting the fibreglass waveguide during transport. Eight practical integral handles recessed in the side panels of the cabinet ensure a positive grip during handling. The front grille protecting the only front-mounted loudspeaker consists in a vibration-free painted steel acoustically transparent mesh covered and black painted.



TECHNICAL SPECIFICATIONS:

FREQUENCY RESPONSE	(-10 dB)	43 Hz ÷ 20 kHz	
	(±3 dB)	52 Hz ÷ 19.2 kHz	
AVERAGE DISPERSION	>5 kHz	90° x 40° (H x V)	
IMPEDANCE (Ω)	Low (min)	4 (3.6 @ 58.6 Hz)	
	High (min)	8 (6.7 @ 475 kHz)	
MAX SENSITIVITY (dB SPL @ 1W 1m)	Low	105 (half-space)	
	Mid-High	107	
POWER - WATT AES	Cont.	Peak	
	Low	4000	
	Mid-High	1800	
MAX SPL @ 1 m (calculated)	Cont.	Peak	
	Low	141 (half-space)	
	Mid-High	140	

CONNECTORS	2 x NL4 Speakon in parallel:		
	Low	Pin 1+ pos ; Pin 1- neg	
	Mid-High	Pin 2+ pos ; Pin 2- neg	
LOUDSPEAKERS AND LOADING	Low	1 x 15" NdFeB High pass Vented box	
		1 x 18" Band Pass 6th order Vented Box	
	Mid-High	1 x 10", Horn loaded	
		1 x 2" Exit (3" diaphragm), Horn loaded	
WEIGHT	Single unit	Shipping (1 unit)	
	80 kg (176.4 lb)	92 kg (202.8 lb)	
DIMENSIONS	Height	110 cm (43.3")	117 cm (46.1")
	Width	67 cm (26.4")	77 cm (30.3")
	Depth	65 cm (25.6")	75 cm (29.5")

POINT SOURCE SYSTEMS