

DOPPIA II 5040

FEATURES

- Compact powerful (139dB peak SPL@ 1 m) enclosure for bi/tri-amping, with two 12" (LF) woofers in hybrid reflex/band-pass configuration, a 10" (MF) midrange and a driver compression 3" diaphragm (HF), both horn loaded; ferrofluid cooled HF section voice coil.
- Modular system with interchangeable components for the utmost flexibility to satisfy various acoustic coverage requirements, can be installed with other units of the same type in array configuration.
- Extremely linear phase response of within +/-50° from 400Hz to 20kHz
- Biamping or triamping and control via dedicated digital processor.
- Also available in "P" version with built-in crossover for biamping of the MF and HF sections, thus saving an amplifier compared with the triamplified "A" version.
- Cabinet reinforced internally for the utmost sturdiness, 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 in medium sized concerts, with groups, bands and orchestras.
- Permanent high quality installations in theatres, clubs, indoor sports arenas, ideal for use with Outline subwoofers, for further extension of the bottom end and therefore greater dynamics.

DESCRIPTION

Doppia II 5040 is a professional full range 3-way loudspeaker system, in version "A" for triamping or version "P" for biamping with built-in passive low-loss crossover for the mid/high frequency section. It comprises a low frequency section using two 12" loudspeakers in hybrid reflex/band-pass configuration, a mid frequency section with a high efficiency 10" loudspeaker, loaded by a symmetric waveguide with a square mouth, low compression ratio and low distortion and a high frequency section that uses a compression driver with a 2" throat and 3" titanium diaphragm, with overload protection, loaded by an asymmetric waveguide which also has a square mouth and can be turned through 90° on its axis inside the cabinet in order to change the horizontal /vertical dispersion.

The acoustic reproduced bandwidth is 61Hz÷19.7kHz at -10 dB, with a considerable linearity of within +/-3dB from 79Hz to 18.9kHz, for the reproduction of many types of applications. When triamped, the system has a high sensitivity such as over 102dB SPL at 1m for the low frequency section, 107dB SPL at 1m for the mid section 111dB SPL at 1m for the high section. Driven at maximum peak power each section is able to produce a maximum peak sound pressure of 134dB SPL (low), 138dB SPL (mid), and 139dB SPL at 1m (high).

The maximum allowed power for each section is 400 Watt AES (1.600 peak) for basses, 300 Watt AES (1.200 Peak) for midrange and 150 Watt AES (600 Peak) for high. Average dispersion from 500Hz to 4kHz is 80° horizontal and 70° vertical; from 500 Hz to 10.000 Hz is 70° horizontal and 60° vertical for medium throw applications. The trapezoidal cabinet is built in high quality 15mm Baltic plywood, strengthened by the complex internal structure and suitably positioned internal bracing, to eliminate any resonance of the cabinet's sides. The black outer finish is in high quality scratch-resistant paint. The cabinet has 6 fast hanging points that makes vertical or horizontal hanging extremely easy and reliable, by using the appropriate optional accessories. The front of the enclosure has recessed sockets for fitting the optional trolley, for handling and protecting the fibreglass waveguide during transport. Six integral recessed handles ensure a positive grip during handling.



TECHNICAL SPECIFICATIONS:

FREQUENCY RESPONSE	(-10 dB) (±3 dB)	61Hz ÷ 19.7kHz 79Hz ÷ 18.9kHz
AVERAGE DISPERSION	>5 kHz	50° x 45° (HxV)
IMPEDANCE (Ω)	Low (min) Mid (min) Hi (min)	8 (8.5 @ 187Hz) 8 (8 @ 262Hz) 16 (10.8 @ 5560Hz)
MAX SENSITIVITY (dB SPL @ 1W 1m)	Low Mid Hi	105 (half-space) 107 111,3
POWER - WATT AES	Low Mid High	Cont. Peak 400 1600 300 1200 150 600
MAX OUTPUT LEVEL (calculated)	Low Mid Hi	Cont. Peak 131 137 (half-space) 132 138 133 139

CONNECTORS	2 x NL8 Speakon in parallel: Pin 1+ pos ; Pin 1- neg Pin 3+ pos ; Pin 3- neg Pin 4+ pos ; Pin 4- neg
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LOUDSPEAKERS AND LOADING	2 x 12" Hybrid loading Vented Box. 1 x 10" Wave Guide loaded. 1 x 2" Exit (3" diaphragm), Wave Guide loaded.
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WEIGHT	<i>Single unit</i> <i>Shipping (1 unit)</i> 55 kg (121.3 lb) 62 kg (136.7 lb)
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DIMENSIONS	Height 74 cm (29.1") 82 cm (32.3")
	Width 55 cm (21.7") 63 cm (24.8")
	Depth 60 cm (23.6") 67 cm (26.4")

POINT SOURCE SYSTEMS