Doppia II A 5040

TECHNICAL SPECIFICATIONS

Frequency Response	(-10 dB)	61Hz ÷ 19.7kHz
	(±3 dB)	79Hz ÷ 18.9kHz
Average Dispersion		
500Hz ÷ 10kHz	70° x 60° (HxV)	
>5 kHz	50° x 45° (HxV)	
500Hz ÷ 4kHz	80° x 70° (HxV)	
Impedance (ohms)		
Low (min)	8	(8.5 @ 187Hz)
Mid (min)	8	(8 @ 262Hz)
Hi (min)	16	(10.8 @ 5560Hz)
Max Sensitivity (dBSPL 1W 1m)		
Low	102	(Full-space)
	105	(Half-space)
Mid	107	
Hi	111,3	

Power - Watts AES	***Cont.***	***Peak***
Low	400	1600
Mid	300	1200
High	150	600

Max Output Level (calculated)	***Cont.***	***Peak***
Low	128	134 (Full-space)
	131	137 (Half-space)
Mid	132	138
High	133	139

Loudspeakers and Loading	
LF:	2x12" Hybrid loading Vented Box.
MF:	1x10" Wave Guide loaded.
HF:	1x2" Exit (3" diaphragm), Wave Guide loaded.

PHYSICAL PROPERTIES

Product type	Compact wide-range loudspeaker system: three-ways (two-way for "P" version)/four-speakers, high power, medium throw, assisted by dedicated active control unit.
Enclosure Material and Finish	Trapezoid enclosure in 15 mm. Plywood with internal bracing, rounded corners and integral handles. Scratchproof paint.
Standard Accessories	Fast Hanger hanging system, six handles, Neutrik Speakon NL8Fc connector (NL4FC for "P" version), ready to be fitted with trolley.
Protection	Electronic, only when the dedicated Outline processors are used with limiter functions. HF: 40 mF capacitor
Optional Accessories	Outline Genius6 dedicated active control unit, Doppia "Trolley", "Shower Cap", "UNIFLY" modular flying hardware.
Connectors	2xNL8 Speakon in parallel:
LF	Pin 1+ pos; Pin 1- neg
MF	Pin 3+ pos; Pin 3- neg
HF	Pin 4+ pos; Pin 4- neg
(Passive Version)	***2xNL4 Speakon in parallel:***
LF	Pin 1+ pos; Pin 1- neg
MF/HF	Pin 2+ pos; Pin 2- neg
Weight (Kg)	
Net (gross)	55 (62)
Dimensions (cm)	
Height (with packing)	74 (82)
Width (with packing)	55 (63)
Depth (with packing)	60 (67)

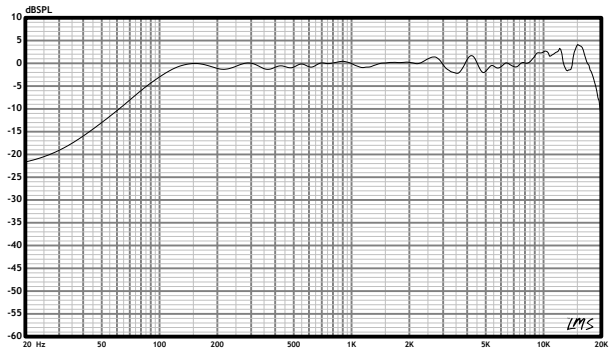
FEATURES

- 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.
- 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.

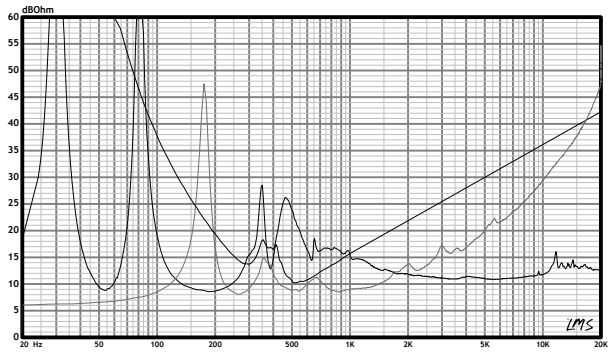
APPLICATIONS

- Medium throw system, ideal for live use in no-nonsense applications in medium sized concerts, for groups, bands and orchestras.
- Permanent high quality installations in theatres, clubs, indoor sports arenas, ideal for use with Outline subwoofers, particularly the "Victor Live" system, for further extension of the bottom end and therefore greater dynamics.

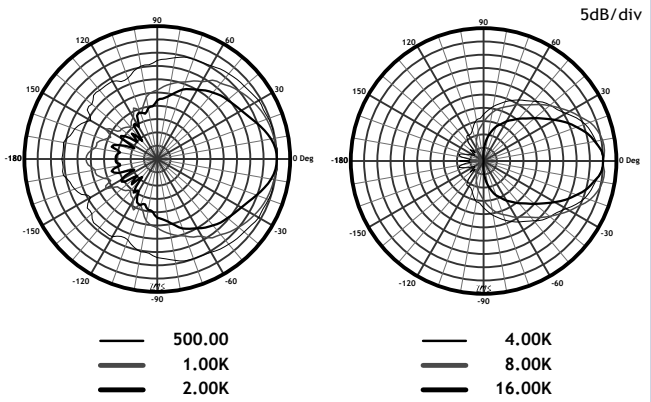
frequency response



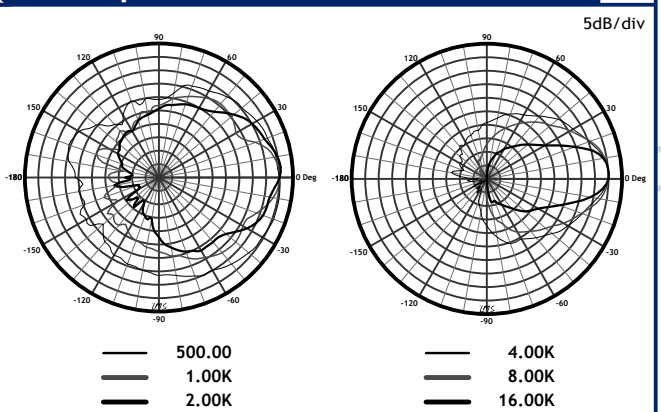
impedance



horizontal polars



vertical polars



loudspeakers

Doppia II A 5040

outline

Via L. da Vinci, 56 - 25020 Flero (Brescia) Italy
tel. +39 030 3581351 - fax +39 030 3580431
www.outline.it - e-mail: info@outline.it

DESCRIPTION

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. 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 lastly 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. This unusual feature enables to swap the high frequency section's horizontal and vertical dispersion characteristics to suit coverage requirements better. The waveguides are built in sturdy fiberglass, with perfectly compatible dimensions and fitting system, in order to make them physically interchangeable and able to be used together in the same cabinet to obtain very varied acoustic combinations in the event of using numerous enclosures of the same type in array configuration. In fact, it's possible to use the enclosure mounted vertically or horizontally on its own or in multiples with great adaptability to different application conditions. The acoustic and mechanical solutions adopted allow to obtain a useable reproduced bandwidth starting right from the low frequencies up to the very high frequencies, 61Hz÷19.7kHz at -10 dB, with a considerable linearity of within +/-3dB from 79Hz to 18.9kHz, enabling it to be used indoors for the reproduction of sufficient low frequencies for many types of applications, including music, without any need for additional subwoofers. Another indication of quality is the phase response of within +/-50° from 400Hz to 20kHz. When triamped, hung In full space, according to AES standards, and driven with 1W at rated impedance, the system has a high sensitivity for the low section, 102dBSPL at 1m, 107dBSPL at 1m for the mid section and over 111dBSPL at 1m for the high frequency section. Driven at maximum peak power in the same acoustic conditions, each section is able to produce a maximum peak sound pressure of 134dBSPL with 1600 Watts, 138dBSPL with 1200 Watts and 139dBSPL at 1m with 600 Watts respectively, whereas at the respective minimum impedance (8.5 Ohms, 8 Ohms and 10.8 Ohms), they're able to handle 400, 300 and 150 Watts (continuous) AES. With the system standing on the floor in 2π configuration, the low section's values will increase by 3dBSPL with the same power applied, rising to 105dBSPL 1W/1m and 137dBSPL peak at full power at 1m. Average dispersion from 500Hz to 4kHz is 50° horizontal and 45° vertical for medium throw applications. The cabinet has a trapezoidal form with twin raking; it has 6 sides and is built in high quality 15mm Baltic plywood, strengthened by the complex internal structure forming the "chambers" necessary for the low frequency section 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 connectors are two Neutrik Speakon NL8 whose contacts are interconnected to facilitate driving two enclosures in parallel. Contacts 1+ and 1- are for the low section, 2+ and 2- in parallel with the low section and 3+ and 3- on the mid section, whereas 4+ and 4- are for the high frequency section. The cabinet has 6 fast hanging points, interconnected by internal steel bars that make it "loadbearing". This proprietary Outline system, the "Fast Hanger", makes vertical or horizontal hanging of numerous units simultaneously 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. The trolley is equipped with long-lasting smooth running wheels for easy movement even on rather rough ground. Four integral recessed handles on the side panels of the cabinet ensure a positive grip during handling. Plus, on the enclosure's top and bottom panels there are 2 large handles (also recessed) to facilitate turning them into working position after transport, and vice versa. The market name of the enclosure is DOPPIA II A 5040 (DOPPIA II P 5040 for the passive version).