Matrix Array Series

APG4000

Medium Throw High Power System

Four-way tri-amplification (two enclosures) 3 x 15" cone drivers (4" ventilated coil) 1 x APG ISOTOP™ driver.

Features

Collinear layout Horizontal and vertical directivity control Compactness and ease of handling Matrix configuration capability

Applications

Very high power system
High precision coverage system
Medium range applications

Specifications

3 300 W AES

SPL Max @ 1m 139 dB

17.1" x 29.5" x 30.7" (435 x 750 x 780 mm)

45 Hz - 19 kHz (4000LO+4000HI)

65 Hz - 19 kHz (4000Hl Wideband mode)

60° H x 15° V

4000LO: 2 x 8 Ohm section

4000HI: 8 Ohm (Lo-mid), 8 Ohm (Mid-Hi)

Three way amplification
Processor 4000SP mandatory
Optional infra bass subwoofers

The APG4000 is formed by two externally identical enclosures resulting in a 4-way collinear set up.

The 4000LO speaker is equipped with two 15" cone drivers, loaded by a dual interactive chamber. The low/mid section of the 4000Hl speaker includes one 15" driver,loaded by a dual horn. The mid/high section uses the proprietary ISOTOP $^{\text{TM}}$ technology, based on mid/high motor associating a 6.5" coaxial driver and a 1" HF unit.

This device is loaded by the exclusive APG ISOTOP $^{\text{TM}}$ waveguide.

This driver features an efficiency of 104dB within a bandwidth of 600Hz to 19kHz and provides constant coverage of 60° horizontal and 15° vertical.

The exclusive APG ISOTOPTM wave guide uses an isophase annular horn providing impedance adaptation, which allows the achievement of efficiency comparable to traditional compression chambers, but with noticeably lower distortion and increased bandwidth and power handling.

The use of the 4000SP processor is mandatory. For extension in low frequency, APG recommends the following subwoofers: SUB238S, TB115S, TB118S, TB215S or TB218S.



One APG 4000 system = 1 x 4000HI + 1 x 4000L0

The APG4000 belongs to the concept of the APG Matrix Array Technology.

It is designed for high power and medium range F.O.H applications.

Its versatility offers the possibility to configure a system from one 4000Hi only up to large clustered configuration with APG6000 systems for very long throw high power application. The APG4000 system is defined by its compactness and its high sound reproduction quality while offering simple installation set up.

The collinear technology of the Matrix sytems is the foundation of the Matrix concept i.e. the capacity of creating very homogeneous and coherent configurations thanks to the simultaneous control of horizontal and vertical coverage.

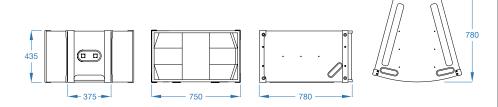
The Matrix Array series, APG4000 and APG6000 are fully compatible and complementary: same components, identical technology and design, cabling and lifting systems compatible. A standard APG4000 F.O.H set up is composed of 4 x 4000LO speakers and 4 x 4000HI speakers, 1 x 4000SP processor 4 amplifiers able to deliver each a minimum of 2 x 1400W in 8 ohms.

4000PR or 6000PR trolleys are available as option.



APG4000

Technical Specifications



Features	4000LO	4000HI	
		lo/mid	mid/high
Frequency range 4 way mode (± 3 dB)	45 - 160 Hz	160 - 800 Hz	0,8 - 19 kHz
Frequency range 3 way mode (± 3 dB)	-	65 - 800 Hz (1)	0,8 - 19 kHz
Sensitivity @1W 1m	104 dB SPL	104 dB SPL	108 dB SPL
Maximum continous level at 1m	134 dB SPL	134 dB SPL	
Peak Level at 1m	139 dB SPL	13	9 dB SPL
Directivity, -6 dB	-	60° H x 15° V (2)	60° H x 15° V (2)
Nominal impedance	2 x 8 0hm	8 Ohm	8 Ohm
Components			
Transducers	2 x 15"	1 x 15"	1 x 6,5"+ 1 x 1" HF coaxial driver
0 1 1 1	400 (410)	400 (411)	EO (OII) LAE (4.7EII)

Halloudolis	Z X 10	1 / 10	I A U, U T I A I TII COANIAI UIIVCI
Coil diameter	100 mm (4")	100 mm (4")	50 mm (2") and 45 mm (1.75")
Type of load	Interactive double tuned	Elliptical Horn	ISOTOP and elliptical Horn

Power

Minimum amplification	2 x 1000 W / 8 0hm	1000 W / 8 Ohm	300 W / 8 Ohm	
Peak	2 x 2000 W	2000 W	1000 W	
AES (3)	2 x 1000 W	1000 W	300 W	

Construction and characteristics

	0.10.1010101		
Cabinet	18mm Finish birch plywood included in an external 4 mm iron squelet	18mm Finish birch plywood included in an external 4 mm iron squeleton	
Finish	Black, impact resistant aquarethane coating		
Protection grill	Acoustically transparent perforated steel, 1.5 mm thick		
Front face	Black , 15 mm acoustic foam	Black , 15 mm acoustic foam	
Connectors	2 x SPEAKON NL8MP (4)		
Handles	7 x integrated wooden cut out handle		
Rigging	8 x rigging points (5)		
Dimensions (H,W,D)	17.1" x 29.5" x 30.7" (435 x 750 x 780 mm)		
Net unit weight	88 lb (40 kg) 114,7 lb (52 kg)		

Options et Accessories

4000PR (5)	Wheelboard with strap for APG4000 speaker (weight of 14 kg, 58 lb)
6000PR (5)	Wheel board for APG4000 & APG6000 speakers (weight of 14kg, 58 lb)
REPEINTO7 (6)	Paint option according to RAL or Pentone reference
PCM (7)	Mono connection patch (4 way) 2U
PCS (7)	Stereo connection patch (8 way) 2U

Flying System

i iyiiig Oyotoiii	
4TRUSS (8)	Hanging Truss for APG4000 system
6TRUSS (8)	Hanging Truss for APG4000 & APG6000 systems

Signal Processing

4000SP integrates all functions: active crossover, EQ, speakers' protection and signal distribution. A mono Sub output allows the use of additional infra bass subwoofers.





APG FRANCE - 19 bis rue des écoles - Site Valnor ZI Haute - 95500 Le Thillay Tel.: +33 (0)1 30 18 92 70 - Fax: +33 (0)1 30 18 92 71 - e.mail: contact@apg.tm.fr - www.apg.tm.fr