

WPS-MAR



Marine Edition

Optimised Line Array – Three-way, passive line array element

Features

- IP55 Compact line array with marine grade specification
- Scalable resolution for advanced array control
- External, dedicated, multi-channel Class D amplification
- Industry-leading DISPLAY software interacts with DSP for highly-accurate results
- Fast, integral 3-point flying systems for up to 16 enclosures
- Side and rear handles for ease of handling and setting splay angles
- 100° horizontal constant directivity pattern control
- Available in black or white

Applications

- Fixed installations in unforgiving outdoor applications like cruise ships

WPS-MAR is an IP55 marine grade finished format of Martin Audio's popular WPS optimised compact line array available in black or white.

The scalable resolution of WPS-MAR offers greatly improved coverage consistency and control compared to a standard line array and provides a flexible pathway to advanced array control.

WPS-MAR is a versatile, state-of-the-art line array with a peak SPL of 133dB and is designed for install applications in harsh outdoor environments that require a high output array with reduced weight and footprint.

WPS-MAR is a passive 3-way system which integrates a high density of drive units in a very compact enclosure. It features 2 x 8" (200mm) LF drivers, 4 x 4" (100mm) midrange drivers and 4 x 1" (25mm) exit HF compression drivers loaded by a moulded HF horn which occupies the full width of the enclosure — defining the 100° horizontal constant directivity coverage pattern of both the HF and midrange sections.

The 4" midrange drivers are compression-loaded to raise efficiency and enter the horn walls via annular slots close to the HF throat to sum effectively with the HF wavefront. In the HF section, four 1" exit compression drivers deliver pristine high frequency sound without the harshness and distortion associated with larger format devices. The 8" LF drivers are set back behind the walls of the HF horn, with a small volume of air in front of each driver increasing the output at the upper end of its operating range. The LF exit apertures are spaced apart horizontally to provide useful LF horizontal pattern control.



The cabinet has a PU paint finish with marine grade 316 stainless steel grille, flying hardware, fixings and pins. The exterior grille has an IP55 inner grille attachment and the HF and MF drivers feature Hydrophobic treatment and the LF and MF have a weatherised cone treatment. There is a weatherised cable gland with marine grade 316 gland and blanking plate and a 3m captive lead.

For extended low frequency performance, there are Marine variants of the SX118 and SX218. Like the WPS-MAR, these Marine subwoofers are available in black or white.

Martin Audio Ltd
Century Point, Halifax Road, High Wycombe
Buckinghamshire HP12 3SL, England

Telephone: +44 (0) 1494 535 312
Email: info@martin-audio.com

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www.martin-audio.com

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Technical Specifications

TYPE	IP55, three-way, passive line array element, Marine grade finish
FREQUENCY RESPONSE (5)	70Hz-18000Hz \pm 3dB
DRIVERS	LF: 2 x 8" (200mm)/2" (50mm) voice coil, long excursion, vented yoke, neodymium magnet drivers, weatherised cone treatment MF: 4 x 4" (100mm)/1" (25mm) coil, neodymium magnet drivers, compression loaded, hydrophobic cone treatment HF: 4 x 1" (25mm) exit/1.4" (35mm) HT Polymer diaphragm, neodymium magnet compression drivers, hydrophobic cone treatment
SYSTEM AMPLIFIER	iKON iK42
SYSTEM RESOLUTION	1 to 3 enclosures per amplifier channel (iK42)
MAXIMUM SPL (9)	133dB peak
NOMINAL IMPEDANCE	6 ohms
DISPERSION	100° horizontal (-6dB), 120° horizontal (-10dB), 10° vertical
CROSSOVER	520Hz, 1.6kHz internal passive
ENCLOSURE	Vertical trapezoid with 5° wall angle, multi-laminate birch and poplar-ply construction
FINISH	Black or white PU paint finish, Marine grade 316 Stainless Steel flying hardware fixings and flying pins
PROTECTIVE GRILLE	HEX perforated marine grade 316 stainless steel in black or white
CONNECTORS	2 x NL4 type
PIN CONNECTIONS	1+/-1-
FITTINGS	3-point rigging system, 2 x side pocket handles 2 x rear grip handles, with marine grade 316 Stainless Steel flying hardware fixings and flying pins WR cable gland with marine grade 316 gland and blanking plate and 3m captive lead
FLOWN ARRAY MAXIMUM DIMENSIONS	16 (installation) and 24 (touring) enclosures in a single array (W) 650mm x (H) 261mm x (D) 400mm (W) 25.6in x (H) 10.3in x (D) 15.8in
WEIGHT	27kg (60lbs)
ACCESSORIES	Marine grade 316 Stainless Steel install flying frame and flying pins

Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.

