

ARA

S E R I E S



MARA-100

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 24/02/2025



SOUND WITH SOUL

KEY FEATURES

- Self-powered cardioid Line array
- 100° horizontal coverage
- 6 channel amplifier, Class D, 4200W_{rms}
- Controlled horizontal dispersion up to 100 Hz.
- Cardioid attenuation of -12dB (80 Hz - 200 Hz)
- IP control and monitoring through ALMA™
- FIR processing and digital management via DASaim™

DESCRIPTION

MARA is a self-powered cardioid and symmetrical line array system with a continuous power of 4200 Wrms. The MARA-100 offers a linear MAX SPL of 144 dB, a wide dynamic range, and an 100° horizontal coverage, making it the perfect solution for medium to large events. Thanks to its cardioid design, we achieve a rear attenuation of -12 dB in the range of 80 Hz - 200 Hz.

MARA-100 incorporates two 10" woofers with 3" voice coils, plus two 6" drivers in a cardioid configuration. For the midrange, we use two 8" speakers with 2.5" voice coils. For the high frequencies, it incorporates two M-78N compression drivers with 3" voice coils and a waveguide with an 100° horizontal dispersion. All components have been custom-designed and manufactured to maximize system efficiency.

The MARA Class D amplifier integrates a switched-mode power supply with power factor correction (PFC) to ensure maximum performance and efficiency, regardless of the mains voltage. Each amplifier provides a total of 4200 W RMS divided into 6 channels.

The 3-point rigging system is compatible with both MARA and MARA-SUB, allowing arrays of up to 24 MARA units and 16 MARA-SUB units to be flown. The FSS™ (Fast Set Splay) angulation system allows for angle adjustments in 1° increments, from 0° to 10°, from the stacking position, significantly reducing setup time.

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SPECIFICATIONS

Performance

Frequency Range (-10 dB)	55 Hz - 18 kHz
Horizontal Coverage (-6 dB)	100°
Vertical Coverage	Splay Dependent
Maximum Linear SPL ¹	144 dB
Maximum SPL ²	148 dB

1. Measured Maximum Linear SPL at 1m according to AES75 standard using 18dB crest factor M-Noise.

2. Measured Maximum SPL at 1m using burst noise.

Electronics and Connectors

Nominal Amplifier Power (continuous)	4200 W
Input Type	Balanced Analog
Input Impedance	20 kohms
Input Sensitivity	6.2 V (+18 dBu)
Audio Signal Input Connector	1 x Female XLR
Audio Signal Loop Thru Connector	1 x Male XLR
Audio/Data Input Connector	etherCON
Control	ALMA
Audio + Data Loop Thru Connector	etherCON
AC Output Connector	powerCON TRUE1
Current Draw 230 V / 115 V	6.5 A/13 A
Sampling Rate	96kHz

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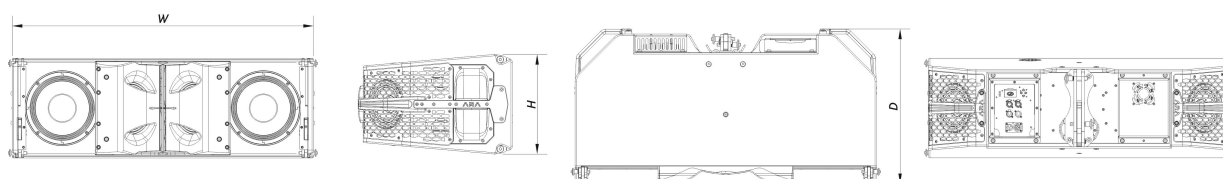
Enclosure

Enclosure Construction	Birch Plywood
Enclosure Geometry	Trapezoidal 10°
Rigging	Captive Rigging System
Finish	ISO-flex Paint
Color	Black
IP Rating	IP43
Dimensions (H x W x D)	355 x 1.070 x 550 mm 14,0 x 42,0 x 21,6 in
Net Weight	71,5 kg (157,3 lb)

Components

LF Driver	10GXN4
MF Driver	8MXN
LF Cardioid Driver	6GXN
HF Driver	M-78N

DIMENSIONS



ORDERING

Model	Description	P/N
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INFORMATION

System

MARA-100	10420601
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Replacement Parts

10GXN4	Cone Transducer	20209110
6GXN	Cone Transducer	20209130
8MXN	Cone Transducer	20208989
GM-8MX	Recone Kit	20208539
GM-M75N	Diaphragm	20205080
KIT-DSP-MARA-100	Replacement Dsp	20701160
LITEMOD	Amplifier	30011888
LITEMOD4HC	Amplifier	30007464
M-78N	Compression Driver	20208860
MP-MARA-100	Power Module	30011429

Accessories

AX-MARA	Rigging Accessories	10106120
AX-PULL-LARA	Rigging Accessories	10106006
EC-09	Electronic Accessories	20502110
EC-20	Electronic Accessories	20502130
EC-30	Electronic Accessories	20502140
ECPK-20	Electronic Accessories	20502180
FRAME-AX-MARA	Rigging Accessories	10106130

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FUN-4-MARA	Transport Accessories	10103805
JP-MARA	Rigging Accessories	10113354
PICKUP-AX-MARA	Rigging Accessories	10106140
PL-MARA	Transport Accessories	10113360
PLINK1-09	Electronic Accessories	20502150
SPK18-20	Electronic Accessories	30007510
SPK18-6TRUE1	Electronic Accessories	30007511
TOP-PL-MARA	Transport Accessories	10113353
V-AX-LARA	Rigging Accessories	10106003

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