

ARA

S E R I E S



MARA-SUB

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 subwoofer
- 21" neodymium speaker with 4" voice coil
- 18" cardioid neodymium speaker with 4" voice coil
- 4-channel Class D amplifier, 2400 Wrms
- Rigging system compatible with MARA

DESCRIPTION

MARA-SUB is a self-powered cardioid subwoofer system that incorporates a front 21" speaker and a rear 18" speaker, both with a 4" voice coil, in a bass-reflex configuration. The rear 18" speaker creates the cardioid dispersion pattern needed to compensate for unwanted energy at the rear.

The Class D amplifier of the MARA-SUB has 4 bridged channels, providing power to both the front 21" speaker and the rear cardioid 18" speaker. The switched-mode power supply features power factor correction, reducing power consumption and improving reliability and consistency under all operating conditions. The built-in DSP optimizes the signal parameters for the speakers, allowing compensation of 14 dB of rear energy in the range of 32 Hz - 125 Hz.

The enclosure design adheres to DAS's strict standards regarding the use of birch plywood and durable ISO-flex™ exterior protection. The MARA-SUB features the necessary rigging system to fly together with the MARA systems using a single support. The metal grilles include acoustically transparent and moisture-repellent fabric. Recessed handles are located on each side of the enclosure.

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SPECIFICATIONS

Performance

| | |
|---------------------------------|----------------|
| Frequency Range (-10 dB) | 32 Hz - 125 Hz |
| Maximum Linear SPL ¹ | 137 dB |
| Maximum SPL ² | 141 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) | 2400 W |
| Nominal Amplifier Power (peak) | 4800 W |
| Nominal Amplifier Power LF (continuous) | 2 x 1200 W |
| Nominal Amplifier Power LF (peak) | 2 x 2400 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 / 13A |
| Sampling Rate | 96kHz |

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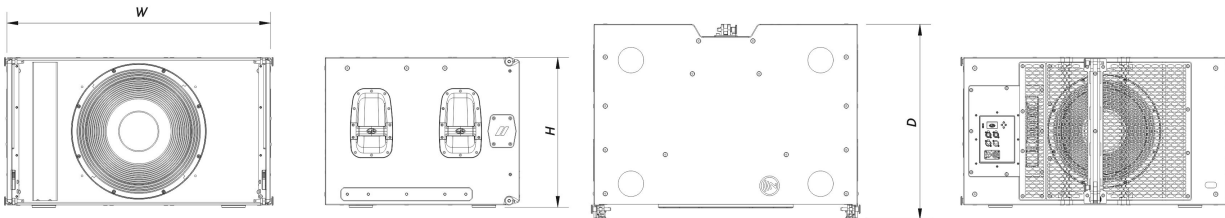
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| | |
|--------------------------|---|
| Enclosure Construction | Birch Plywood |
| Enclosure Geometry | Rectangular |
| Rigging | Captive Rigging System |
| Finish | ISO-flex Paint |
| Color | Black |
| IP Rating | IP43 |
| Dimensions (H x W x D) | 605 x 1.070 x 790 mm 23,8 x 42,0 x 31,0 in |
| Net Weight | 107,0 kg (235,5 lb) |

Components

| | |
|--------------------|-------|
| LF Driver | 21LFN |
| LF Cardioid Driver | 18UXN |

DIMENSIONS



ORDERING INFORMATION

| Model | Description | P/N |
|------------------|-------------|-----|
| System Enclosure | | |

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MARA-SUB 10420610

Replacement Parts

| | | |
|------------------|-----------------|----------|
| 18UXN | Transducer | 20208920 |
| 21LFN | Transducer | 20208983 |
| GM-18UXN | Recone Kit | 20208530 |
| GM-21LF | Recone Kit | 20208533 |
| KIT-DSP-MARA-SUB | Replacement Dsp | 20701180 |
| LITEMOD | Amplifier | 30011888 |

Accessories

| | | |
|----------------|------------------------|----------|
| AX-MARA | Rigging Accessories | 10106120 |
| 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 |
| FUN-2-MARA-SUB | Transport Accessories | 10103798 |
| FUN-3-MARA-SUB | Transport Accessories | 10103797 |
| JP-MARA | Rigging Accessories | 10113354 |
| PICKUP-AX-MARA | Rigging Accessories | 10106140 |
| PL-MARA-SUB | Transport Accessories | 10113370 |
| PLINK1-09 | Electronic Accessories | 20502150 |
| V-AX-LARA | Rigging Accessories | 10106003 |

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