

ARA

S E R I E S



LARA 80

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 10/07/2024



SOUND WITH SOUL

KEY FEATURES

- Self-powered cardioid Line array
- 80° horizontal coverage
- 8 channel amplifier, Class D, 6000W_{rms}
- Controlled horizontal dispersion up to 100 Hz.
- Cardioid attenuation of -15dB (63 Hz - 200 Hz)
- IP control and monitoring through ALMA™
- FIR processing and digital management via DASaim™

DESCRIPTION

LARA® is a 4-way symmetrical, cardioid, self-amplified line array system with 6000W_{rms} power. LARA® has a linear performance of 146 dB SPL MAX and a wide dynamic range making it an ideal system for large events. Thanks to the cardioid design, we achieve a rear attenuation of -15 dB in the range of 63 Hz - 200 Hz.

LARA® incorporates 2 x 12" woofers with a 4" voice coil plus another 2 x 8" in cardioid configuration; for the midrange, it uses another 2 x 8" speakers with 2.5" voice coils. The high-frequency section is made up of two DAS M-78N compression drivers, with 3" voice coils and a 80° horizontal dispersion waveguide. All the elements have been designed and purpose-built to maximize the system's efficiency.

The LARA® class D amplifier integrates a switching power supply with power factor correction (PFC), ensuring maximum performance and efficiency regardless of the mains voltage. Each amplifier provides 6000W_{rms} divided into eight channels, 3 of them in bridge mode to feed the 2 x 12" and the two compression drivers. The remaining two channels feed the front 2 x 8" and rear 2 x 8" transducers.

The 3-point rigging system works for both LARA® and LARA® SUB, allowing us to hang arrays of up to 24 LARA units and 16 LARA® SUB units. The FSS™ (Fast Set Splay) angulation system allows angles to be adjusted in steps of 1°, from 0° to 7° from the stacked position, significantly reducing assembly time.

LARA 80



SPECIFICATIONS

Performance

Frequency Range (-10 dB)	63 Hz - 17 kHz
Horizontal Coverage (-6 dB)	80°
Vertical Coverage	Splay Dependent
Maximum Linear SPL ¹	146 dB
Maximum SPL ²	150 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)	6000 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	7.5 A/15 A
Sampling Rate	96kHz

LARA 80

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 10/07/2024



SOUND WITH SOUL

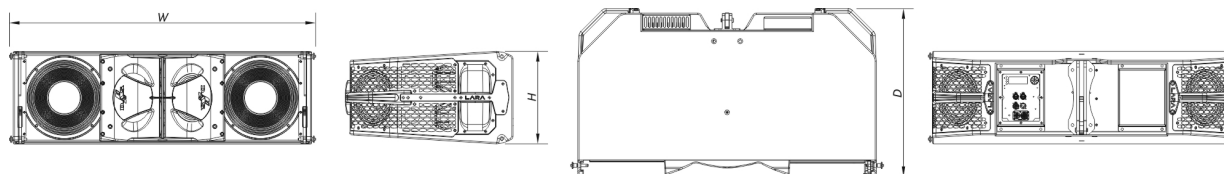
Enclosure

Enclosure Construction	Birch Plywood
Enclosure Geometry	Trapezoidal 7°
Rigging	Captive Rigging System
Finish	ISO-flex Paint
Color	Black
IP Rating	IP43
Dimensions (H x W x D)	355 x 1.170 x 645 mm 14,0 x 46,0 x 25,4 in
Net Weight	86,0 kg (189,6 lb)

Components

LF Driver	12GXNC
MF Driver	8MXN
LF Cardioid Driver	8GXN
HF Driver	M-78N

DIMENSIONS



ORDERING

Model	Description	P/N
-------	-------------	-----

LARA 80

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 10/07/2024



INFORMATION

System

LARA-80	10420501
---------	----------

Replacement Parts

12GXNC	Cone Transducer	20208987
8GXN	Cone Transducer	20208988
8MXN	Cone Transducer	20208989
GM-12GX	Recone Kit	20208065
GM-8GX	Recone Kit	20208538
GM-8MX	Recone Kit	20208539
GM-M75N	Diaphragm	20205080
LITEMOD4HC	Amplifier	30007464
M-78N	Compression Driver	20208860

Accessories

AX-LARA	Rigging Accessories	10106001
AX-PULL-LARA	Rigging Accessories	10106002
EC-09	Electronic Accessories	20502110
EC-20	Electronic Accessories	20502130
EC-30	Electronic Accessories	20502140
ECPK-20	Electronic Accessories	20502180
FRAME-AX-LARA	Rigging Accessories	10106004
FUN-4-LARA	Transport Accessories	10103787

LARA 80

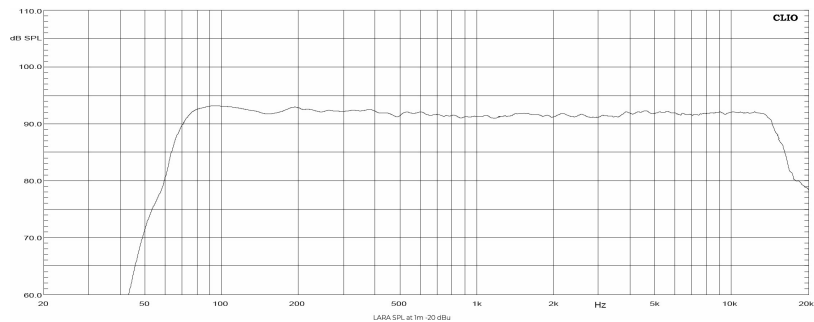
DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 10/07/2024



SOUND WITH SOUL

JP-LARA	Rigging Accessories	10102959
PICK-UP-AX-LARA	Rigging Accessories	10106005
PL-LARA	Transport Accessories	10113300
PLINK1-09	Electronic Accessories	20502150
RACK-ARA-208	Ara Series	20503162
RACK-ARA-230	Ara Series	20503160
SPK18-20	Electronic Accessories	30007510
SPK18-6TRUE1	Electronic Accessories	30007511
TOP-PL-LARA	Transport Accessories	10113301
V-AX-LARA	Rigging Accessories	10106003

PERFORMANCE DATA



Frequency Response Curve

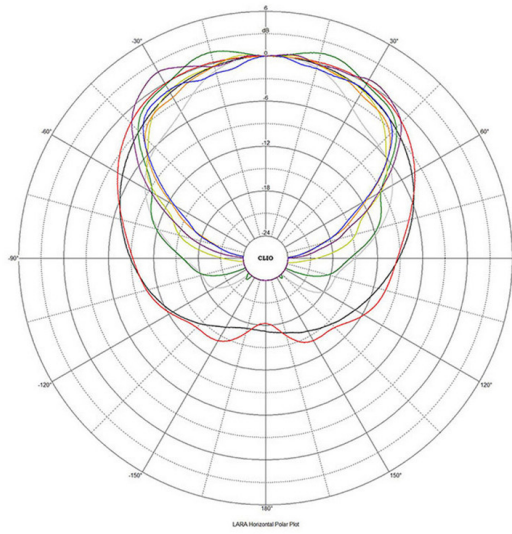
LARA 80

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
 Fuente del Jarro - Valencia - Spain - Tel. +34961340860
 Updated (DD/MM/YYYY): 10/07/2024



SOUND WITH SOUL

120Hz
160Hz
200Hz
250Hz
300Hz
350Hz
400Hz



Horizontal Polar Plot

LARA 80

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 10/07/2024



SOUND WITH SOUL