

ARA
S E R I E S



LARA-SUB

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 **DAS AUDIO**

KEY FEATURES

- Cardioid powered subwoofer
- 3 x 18" 18UXN neodymium transducers with 4" VC
- 6-channel, 3600 Wcontinuous Class D amplifier
- LARA rigging bumper compatible flying hardware

DESCRIPTION

The LARA-SUB is a powered cardioid subwoofer system incorporating 2 DAS 18UXN neodymium low frequency transducers with 4" voice coils in a bass-reflex configuration. A single rear-facing 18UXN is used to create the cardioid dispersion pattern avoiding unwanted energy behind the system.

Powering the LARA SUB is a 3 channel Class D amplifier with independent channels powering each of the front-loaded low frequency transducers and the rear facing cardioid speaker. The amplifier's regulated switch mode power supply is equipped with power factor correction reducing power consumption while enhancing reliability and consistency in all operating conditions. The onboard DSP optimizes the signal parameters for front and rear drivers to maximize the rear rejection 14 dB from 40 Hz – 80 Hz average.

Cabinet construction follows DAS's strict construction standards employing birch plywood and the durable ISO-flex™ protective exterior coating. The LARA SUB incorporates captive rigging hardware that makes use of the common LARA rigging bumper, only one bumper type is needed to fly either LARA ARRAY or LARA SUB. The protective metal grilles are backed using acoustically transparent and water repellent fabric. Two recessed handles are located on each side of the enclosure.

The packaging of this model includes 1 unit of the product, 1 EC-09 cable, 1 PLINK1-09 cable, and 3 pins.

LARA-SUB

SPECIFICATIONS

Performance

Frequency Range (-10 dB)	28 Hz - 125 Hz
Maximum Linear SPL ¹	140 dB
Maximum SPL ²	144 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)	3600 W
Nominal Amplifier Power (peak)	7200 W
Nominal Amplifier Power LF (continuous)	3 x 1200 W
Nominal Amplifier Power LF (peak)	3 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 Input Connector	powerCON TRUE1
AC Output Connector	powerCON TRUE1
Current Draw 230 V / 115 V	7.5 /15 A
Sampling Rate	96kHz

LARA-SUB

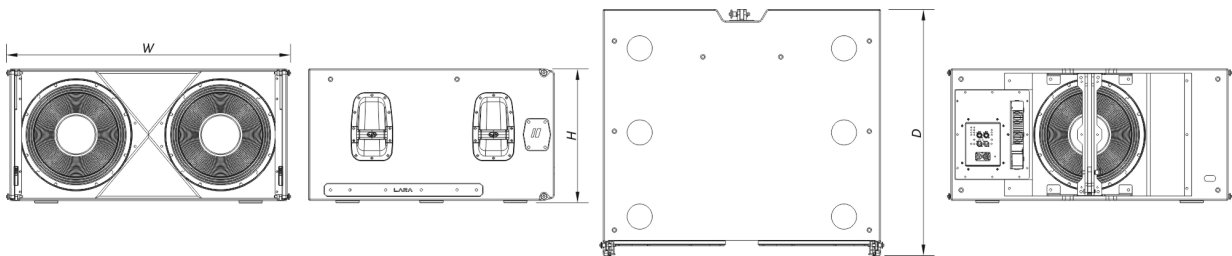
Enclosure

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)	555 x 1.170 x 1.015 mm 21,9 x 46,0 x 40,0 in
Net Weight	125,0 kg (275,0 lb)

Components

LF Driver	18UXN
LF Cardioid Driver	18UXN

DIMENSIONS



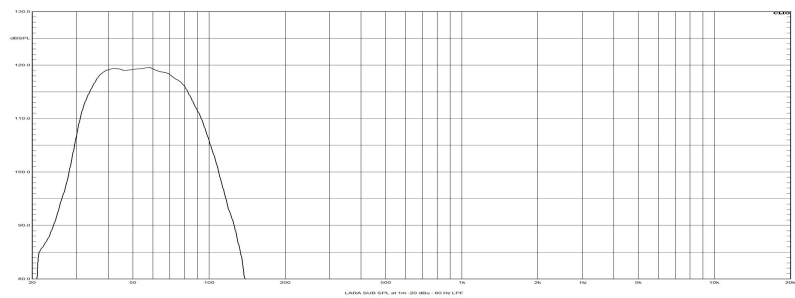
LARA-SUB

ORDERING INFORMATION

Model	Description	P/N
System		
LARA-SUB		10420400
Replacement Parts		
18UXN	Transducer	20208920
GM-18UXN	Recone Kit	20208530
MP-LARA-SUB	Power Module	20406631
Accessories		
AX-LARA	Rigging Accessories	10106001
EC-09	Electronic Accessories	20502110
EC-20	Electronic Accessories	20502130
EC-30	Electronic Accessories	20502140
ECPK-20	Electronic Accessories	20502180
FUN-2-LARA-SUB-MK2	Transport Accessories	10103850
FUN-3-LARA-SUB-MK2	Transport Accessories	10103860
JP-LARA	Rigging Accessories	10102959
PIN-12.43	Replacement Parts	30010414
PL-LARA-SUB-MK2	Transport Accessories	10113311
PLINK1-09	Electronic Accessories	20502150
SPK18-20	Electronic Accessories	30007510
SPK18-6TRUE1	Electronic Accessories	30007511
V-AX-LARA	Rigging Accessories	10106003

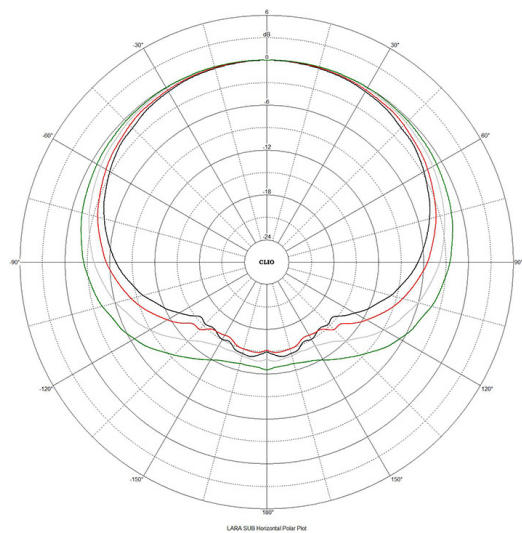
LARA-SUB

PERFORMANCE DATA



Frequency Response Curve

24Hz
100Hz
1000Hz
10000Hz



Horizontal Polar Plot

LARA-SUB