

*aero series*²



AERO-20A

DAS Audio Group, S.L. - C/ Islas Baleares 24 - 46988
Fuente del Jarro - Valencia - Spain - Tel. +34961340860
Updated (DD/MM/YYYY): 15/11/2024



SOUND WITH SOUL

KEY FEATURES

- 800 W LF + 400 W HF Class D amplifier
- DASnet™ remote monitoring and control capable
- Quick rig system for easy rigging/stacking
- 1 x 12" 12AN4 neodymium loudspeaker
- 1 x M75N neodymium compression driver
- FEA optimized HF waveguide

DESCRIPTION

The AERO-20A is a compact line array system which incorporates the ALAS™ philosophy and draws from the astounding success of the “all purpose” capabilities of the AERO-12A, launched in 2009. The powered AERO-20A incorporates DAS’s latest technical achievements in transducer design, power electronics and system management.

The low-mid range incorporates a DAS 12" loudspeaker optimized to provide high output and reliability. A light aluminum voice coil bonded to a new fiberglass reinforced cone, an optimized magnet circuit, and a new suspension design have contributed significantly to the exceptional performance of the 12AN4 in terms of distortion, power handling and maximum SPL.

High frequency response relies on a compression driver-waveguide assembly developed for the AERO-20A. The M-75N compression driver employs a powerful neodymium magnet structure, a titanium diaphragm and 75 mm (3") voice coil. A reengineered mounting system which tightens internal tolerances along with a new shorting ring design have increased the power handling capacity of the driver. The M-75N is attached to a new aluminum waveguide that has been designed to be free of resonances and provide a natural sound.

The AERO-20A is constructed using birch plywood and finished with the ISO-flex coating offering excellent protection and durability. Two injected aluminum assemblies attached to the front of the cabinet comprise the high frequency waveguide and the carrier for the 12" woofer. The assemblies also dissipate heat from the components, controlling power compression. An injected aluminum heat sink housing the amplifier and related electronics is attached to the rear of the cabinet.

A new captive rigging mechanism enhances ease-of-use by allowing angle selection to be made while stacked on the transport dolly. A locking system can be triggered securing angles between adjacent enclosures during the stacking and lifting procedures.

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SPECIFICATIONS

Performance

Frequency Range (-10 dB)	60 Hz - 20 kHz
Horizontal Coverage (-6 dB)	90°
Vertical Coverage	Splay Dependent
Maximum Peak SPL at 1 m	136 dB

Electronics and Connectors

Nominal Amplifier Power LF (continuous)	800 W
Nominal Amplifier Power LF (peak)	1600 W
Nominal Amplifier Power HF (continuous)	400 W
Nominal Amplifier Power HF (peak)	800 W
Input Type	Balanced
Input Impeadance	20 kohms
Input Sensitivity	4.9 V (+16 dBu)
Audio Signal Input Connector	1 x Female XLR
Audio Signal Loop Thru Connector	1 x Male XLR
Audio/Data Input Connector	etherCON
Control	DASnet™
Audio + Data Loop Thru Connector	etherCON
Recommended Signal Processing	DSP-4080
AC Output Connector	powerCON TRUE1
Current Draw 230 V / 115 V	1.8 A/3.6 A

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Enclosure Construction	Birch Plywood
Enclosure Geometry	Trapezoidal
Rigging	Captive Rigging System
Finish	ISO-flex Paint
Color	Black
Dimensions (H x W x D)	320 x 650 x 445 mm 12,6 x 25,6 x 17,5 in
Net Weight	33,0 kg (72,8 lb)

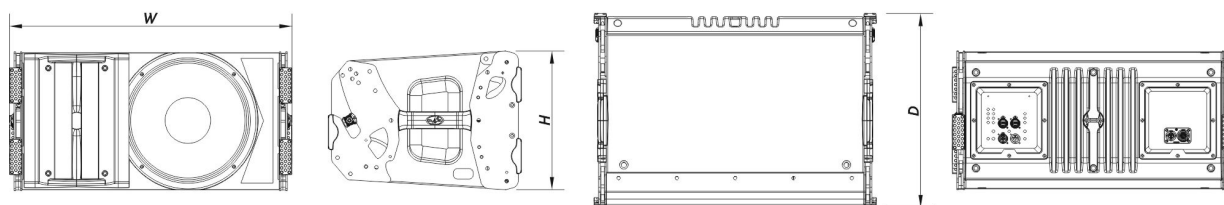
Components

LF Driver	12AN4
HF Driver	M-75N
Horn/Waveguide	BPS-1912

Shipping

Carton Dimensions (H x W x D)	373 x 720 x 495 mm 14,7 x 28,4 x 19,5 in
Shipping Weight	35,0 kg (77,2 lb)
Package Includes	TEST package ES

DIMENSIONS



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ORDERING INFORMATION

Model	Description	P/N
System		
AERO-20A		10420350
Replacement Parts		
12AN4	Cone Transducer	20208760
BPS-1912	Horn	20301030
GM-12AN4	Recone Kit	20208430
GM-M75N	Diaphragm	20205080
KIT-DSP-AERO-20A	Dsp	20406550
LITEMOD	Amplifier	20406730
M-75N	Compression Driver	10208030
MP-AERO-20A	Power Module	30006117
PIN-8C	Pin	30006080
Accessories		
AX-118S20	Rigging Accessories	10102910
AX-AE20	Rigging Accessories	10102820
AX-COMBO2040	Rigging Accessories	10102850
AXS-AE20	Installation & Stacking Acc.	10102840
EC-09	Electronic Accessories	20502110
ECP-20	Electronic Accessories	20502080
ECP-3	Electronic Accessories	20502060

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ECP-30	Electronic Accessories	20502070
ECPK-1	Electronic Accessories	20502090
ECPK-20	Electronic Accessories	20502180
ECPK-5	Electronic Accessories	20502100
FUN-4-AE20	Transport Accessories	10103680
PICKUP-AX-AE20	Rigging Accessories	10102830
PL-20S	Transport Accessories	10113200
PLINK1-09	Electronic Accessories	20502150

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