

æro 20A

Advanced Line Array System









The Aero 20A is powered by an advanced electronics package comprising a Class D amplifier that combines the power supply, output stage and connectors in a compact, lightweight chassis. The two channel amplifier employs the latest in switch mode technology and offers maximum performance, high predictability and immunity from intermodulation artifacts thanks to the innovative design of the Pulse Width Modulation controller.

Optimized performance and reduced consumption are achieved as a result of the cutting-edge single-stage Power Factor Correction and low standby power requirements of just 0.5 W. Universal mains voltage selection and a complete set of protections allows the systems to be used safely, anywhere in the world.

The Aero 20A incorporates the latest in digital signal processors. Brick wall FIR filters have been used to provide perfect alignment between ways achieving exceptionally uniform coverage all the way down to the crossover point. The top-of-the-line AD/DA converters employed allow for significant improvements in dynamics, lower distortion and ultra-low noise levels.

System "presets" depending on the number of units in the array and the throw required can be configured via the amp's rear panel, or remotely via DASnetTM. The long-throw processing increases the system's useful coverage area by providing balanced sound even at long distances.







CABINET

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, reducing power compression. An aluminum heat sink housing the amplifier and related electronics is attached to the rear of the cabinet.

A new captive rigging mechanism designed to provide enhanced ease-of-use, allows angle selection to be made while stacked on the transport dolly. A locking system can be triggered to secure angles between adjacent enclosures during the stacking and lifting procedures. Safe rigging and precise aiming is achieved thanks to the AX rigging system and the low-profile flybar that reduces the space needed between the upper rigging point and the top of the array.



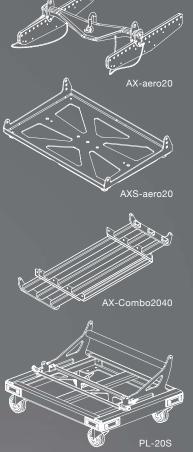
COMPONENTS

The Aero 20A incorporates a new D.A.S. 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. The 12AN4's new voice coil venting scheme is particularly effective in dissipating voice coil heat providing the speaker with a high thermal rating and low power compression.

The high frequencies rely 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. The M-75N is attached to a new aluminum waveguide that has been designed to be free of resonances and provide a natural sound.



Model	æro 20A
Nominal LF Power Amplifier	800 W (Class D)
Nominal HF Power Amplifier	400 W (Class D)
Input Type	Balanced Differential Line
Input Impedance	Line: 20 kohms
Sensitivity	Line: 6.2 V (+18 dBu)
Frequency Range (-10 dB)	60 Hz -20 kHz
Horizontal Coverage (-6dB)	90° Nominal
Vertical Coverage	Splay Dependent
Rated Maximum Peak SPL at 1 m ⁽¹⁾	136 dB
Transducers/Replacement Parts	LF: 1 x 12AN4/GM 12AN4 HF: 1 x M-75N/GM M-75N
Enclosure Geometry	Trapezoidal 3,5°
Enclosure Material	Birch Plywood
Color/Finish	Black ISO-flex Paint
Rigging System Splay Angles	Integrated in box design
Connectors	Audio INPUT: Female XLR Audio LOOP THRU: Male XLR Audio + Data INPUT: EtherCon Audio + Data LOOP THRU: EtherCon AC INPUT: PowerCon TRUE1 NAC3FX AC OUTPUT: Powercon TRUE1 NAC3MX
AC Power Requirements	3.6 A, 115 V, 50 Hz/60 Hz 1.8 A, 230 V, 50 Hz/60 Hz
Dimensions (H x W x D)	31.7 x 64.7 x 44.3 cm 12.4 x 25.2 x 17.3 in
Weight	34.5 kg (75.9 lb)
Accessories	AX-aero20 Rigging System AXS-aero20 Stacking Support AX-Combo2040 Rigging Adapter PL-20S Stacking Dolly Pick-Up AX-aero20



1.Maximum calculated Peak SPL based on sensitivity and RMS power handling

Product improvement through research and development is an ongoing process at D.A.S. All specifications are subject to change without notice.



REMOTE MONITORING AND CONTROL

The Aero 20A is DASnetTM capable, allowing for remote monitoring and control by way of DASnetTM, the audio management application for D.A.S. powered cabinets and processors.

The optional DASnet™ rack provides a convenient way to route audio, monitoring and control data as well as power to different zones.



The Aero 20A provides the high performance live sound market with a cutting-edge product. Delivering outstanding sonic quality, user friendliness and durability, the Aero 20A reinforces D.A.S. 's reputation for products built to perform flawlessly throughout years of life on the road. Exceptional products and full factory support aimed at providing solutions for the challenges faced by audio professionals all over the globe, have made D.A.S. one of the world's most respected brands. æro 20

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