

Aero series

Powered Array



Las ventajas de los sistemas autoamplificados Aero son numerosas. En los sistemas de amplificación interna, la electrónica de control, la amplificación de potencia y los transductores han sido diseñados de forma integral, optimizados para trabajar como un conjunto. La simplicidad de estos sistemas garantiza un montaje más rápido y sencillo. No hacen falta racks de amplificadores, sólo se requiere energía eléctrica y señal de audio. Pequeños vehículos podrán transportar equipos más grandes porque los sistemas "powered" ocupan un espacio sorprendentemente reducido. Los sistemas Aero combinan con éxito las últimas técnicas de diseño con la tecnología práctica y ampliamente demostrada. La solución integral de los sistemas ofrece el rendimiento excepcional y la fiabilidad absoluta que caracteriza a los productos de D.A.S.

The advantages of the powered Aero line array systems are numerous. The speaker components, amplifiers and control electronics are designed as an integrated system, optimized to provide exceptional efficiency. Setup time is greatly reduced thanks to the simplicity of these systems. All that is needed is AC power and signal. No external amps or racks are required. Smaller trucks and vans can handle a larger number of systems because surprisingly less space is needed.

The Aero powered systems have successfully combined state of the art design with practical, proven technology. The integrated electro-acoustic solution delivers the outstanding performance and absolute reliability that users worldwide expect from D.A.S.

MODEL	CA-28A	CA-215A	Aero 38A	LX 218A	LX 218 RA
Nominal LF Amplifier Power	350 W	1000 W	1000 W	2200 W	2200 W
Nominal MF Amplifier Power	100 W		500 W		
Nominal HF Amplifier Power			500 W		
Input Type	Balanced	Balanced	Balanced	Balanced	Balanced
Input Impedance	20 kohms	25 kohms	20 kohms	20 kohms	20 kohms
Sensitivity	Line: 1.2 V (+ 4 dBu)	Line: 0.88 V (+ 1.1 dBu)	Line: 1.95 V (+ 8 dBu)	Line: 1.95 V (+ 8 dBu)	Line: 1.95 V (+ 8 dBu)
Frequency Range (-10 dB)	80 Hz-18 kHz	35 Hz-160 Hz	60 Hz-18 kHz	28 Hz - 85 Hz	28 Hz - 85 Hz
Rated Maximum Peak SPL at 1 m ⁽¹⁾	134 dB	135 dB	137 dB	141 dB	141 dB
Coverage Angles (H)	110° Nominal		90° Nominal		
(V)	Splay Angle Dependent		Splay Angle Dependent		
Enclosure Material	Plywood	Plywood	Plywood	Plywood	Plywood
Enclosure Geometry	Trapezoidal 5°	Rectangular	Trapezoidal 5°		
Color/Finish	Black Paint	Black Paint	Black Paint	Black Paint	Black Paint
Rigging System	Integrated in box design	Integrated in box design	Integrated in box design	Ground Stackable	Integrated in box design
Transducers/Replacement Parts	MF: 2 x 8 MN16/GM 8MN16 HF: M-10N/GM M10	2 x 15LX/GM 15LX	LF: 2 x 12GND/GM 12G MF: 2 x 10LMN16/GM 10LMN16 HF: 1 x ND-10/GM K&H	2 x 18LX/GM 18LX	2 x 18LX/GM 18LX
Connectors	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon AC OUTPUT: PowerCon	INPUT: Female XLR LOOP THRU: Male XLR FILTERED OUTPUT: Male XLR AC INPUT: PowerCon	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon AC OUTPUT: PowerCon	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon AC OUTPUT: PowerCon	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon AC OUTPUT: PowerCon
AC Power Requirements	115 V, 50 Hz/60 Hz 230 V, 50 Hz/60 Hz	115 V, 50 Hz/60 Hz 230 V, 50 Hz/60 Hz	115 V, 50 Hz/60 Hz 230 V, 50 Hz/60 Hz	Universal Mains, 85 - 230 V (dual voltage)	Universal Mains, 85 - 230 V (dual voltage)
Dimensions (H x W x D)	26.5 x 88.2 x 40 cm 10.4 x 34.7 x 15.8 in	45.2 x 88.2 x 74.6 cm 17.8 x 34.7 x 29.4 in	31.6 x 140 x 60 cm 12.4 x 55 x 23.6 in	55 x 128 x 65 cm 22 x 51 x 26 in	55 x 135 x 69 cm 22 x 54 x 28 in
Weight	36.5 kg (80.5 lb)	71.5 kg (157.3 lb)	80 kg (176 lb)	73.5 kg (161.7 lb)	87.5 kg (192.5 lb)
Accessories	AX-CA Rigging Grid FUN-6CA-28 Cover PL-28S Steel Dolly	AX-CA Rigging Grid FUN-CA-215 Cover	AX-Aero38 Rigging Grid AX-Aero48 Rigging Grid AX-Combo Rigging Adapter PL-38 Dolly Panel (included) PL-38S Steel Dolly PL-48S Steel Dolly	AX-AEFC88 Bumper AX-AEFC48 Bumper KITLX218 Rigging Hardware Kit KITW-100 Caster Kit PL-LX218 Dolly Panel PL-38S Steel Dolly For Stacking	AX-AEFC88 Bumper AX-AEFC48 Bumper KITW-100 Caster Kit PL-LX218 Dolly Panel (included) PL-38S Steel Dolly For Stacking

Notes: 1. Maximum calculated Peak SPL based on sensitivity and RMS amplifier power.



CA-215A



LX-218A



CA-28A



Aero 38A



LX218 RA

CA-28A

- Módulo matriz lineal autoamplificado de dos vías
- Amplificador de dos canales 350 W LF (Clase D) + 100 WHF (Clase AB)
- Dos altavoces de 8" con circuitos magnéticos de neodimio
- Motor de compresión de neodimio con salida de 1.5"
- Generador de frente de onda plana SEPPIS™
- Sistema de volado integrado en la caja
- Self-powered two-way, mid-high line array module
- Two channel amplifier 350 WLF (Class D) + 100 WHF (Class AB)
- Two 8" loudspeakers with neodymium magnetic assemblies
- Neodymium compression driver with 1.5" exit
- SEPPIS™ high frequency plane wave generator
- Captive rigging system integrated in the cabinet design

CA-215A

- Sistema subwoofer autoamplificado
- Amplificador Clase D de un canal 1000 W
- Dos altavoces de 15" de excursión larga
- Configuración tipo bass-reflex
- Cuatro asas con refuerzos de acero
- Cuatro ruedas posteriores
- Powered arrayable subwoofer unit
- Two 15" long excursion loudspeakers
- Bass-reflex design
- Captive rigging system integrated in the cabinet design
- Four rear casters
- Four steel reinforced bar handles

Aero 38A

- Sistema Matriz Lineal autoamplificado de tres vías
- Amplificador de tres canales Clase D 1000 WLF+500 WMF+500 WHF
- Dos altavoces de 12" con circuitos magnéticos de neodimio
- Dos altavoces de 10" con circuitos magnéticos de neodimio
- Motor de compresión ND-10 de neodimio
- Plataforma con ruedas de transporte
- Self-powered, three-way, medium format line array module
- Three channel Class D amplifier 1000 WLF + 500 WMF + 500 W HF
- Two 12" loudspeakers with neodymium magnet assemblies
- Two 10" loudspeakers with neodymium magnet assemblies
- 1.5" ND-10 neodymium driver
- Captive rigging system integrated in the cabinet design
- Detachable front dolly panel

LX-218A/LX 218RA

- Sistema subwoofer autoamplificado
- Amplificador 2400 W Clase D de 3ª generación
- Dos altavoces de 18LX de excursión larga
- Configuración tipo bass-reflex
- Versión "R" con herrajes de suspensión
- Plataforma con ruedas de transporte
- Powered high performance subwoofer system
- 2400 W 3rd generation Class "D" amplifier
- Two 18LX long-excursion loudspeakers
- Front loaded, bass-reflex configuration
- "R" version with captive rigging system
- Detachable dolly panel



Aero series

Externally Powered Array



La serie Aero aporta los beneficios asociados con las prestaciones de un verdadero "line array" a una gran variedad de aplicaciones de refuerzo de sonido. Sencillos de volar y utilizar, las características de la serie Aero incluyen recintos de bajo peso, un sencillo pero efectivo sistema de suspensión integrado en la caja y componentes específicos de última generación. Sea en equipos móviles o en instalaciones fijas, montado sobre escenario o volado, los sistemas Aero desempeñan su papel de forma impecable ofreciendo al usuario profesional una excepcional calidad sonora y facilidad de uso sin precedentes.

The Aero series systems bring the benefits of true line array performance to a wide range of applications in both portable and fixed-venue installations. The simple to use and easy to fly systems feature lightweight enclosures, integral rigging mechanisms and proprietary components designed for the Aero series. Whether the system be mobile or permanently installed, ground stacked or flown, the Aero series performs flawlessly providing users with exceptional sonic quality and unparalleled convenience.

MODEL	CA-28B	CA-215	Aero 38	Aero 48	LX-218	LX-218R
Frequency Range (-10 dB)	80 Hz - 18 kHz	35 Hz - 300 Hz	60 Hz-18 kHz	45 Hz-18 kHz	28 Hz - 85 Hz	28 Hz - 85 Hz
Horizontal Coverage (-6 dB)	110° Nominal		90° Nominal	90° Nominal		
Vertical Coverage	Splay Angle Dependent		Splay Angle Dependent		Splay Angle Dependent	
RMS (Average) Power Handling ⁽¹⁾	MF: 350 W HF: 100 W	1600 W	LF: 2 x 600 W, MF: 600 W, HF: 200 W	LF: 2 x 600 W, MF: 700 W, HF: 300 W	2000 W	2000 W
On-Axis Sensitivity 1 W / 1 m	MF: 100 dB SPL HF: 110 dB SPL	99 dB SPL	LF: 98 dB SPL, MF: 103 dB SPL, HF: 110 dB SPL	LF: 99 dB SPL, MF: 104 dB SPL, HF: 112 dB SPL	103 dB SPL	103 dB SPL
Rated Maximum Peak SPL at 1 m ⁽²⁾	MF: 131 dB HF: 134 dB	136 dB	LF: 135 dB, MF: 137 dB, HF: 139 dB	LF: 137 dB, MF: 139 dB, HF: 141 dB	141 dB	141 dB
Transducers/Replacement Parts	MF: 2 x 8MN16/GM 8MN16 HF: M-10N/GM M10	LF: 2 x 15LX/GM 15LX	LF: 2 x 12GND/GM 12G MF: 2 x 10LMN16/GM 10LMN16 HF: 1 x ND-10/GM K8H	LF: 2 x 15GN/GM 15G MF: 4 x 8MN/GM 8MN HF: 2 x M-10N/GM M-10	2 x 18LX/GM 18LX	2 x 18LX/GM 18LX
Nominal Impedance	MF: 8 ohms, HF: 8 ohms	4 ohms	LF: 8+ 8 ohms, MF: 8 ohms, HF: 16 ohms	LF: 8+ 8 ohms, MF: 8 ohms, LF: 16 ohms	4 ohms	4 ohms
Recommended Controller	DSP26	DSP26	DSP26	DSP26	DSP48	DSP48
Recommended Amplifier Power	MF: 2 x 750 W @ 4 ohms HF: 2 x 300 W @ 4 ohms (4 units CA-28B)	LF: 2 x 1600-2000 W @ 4 ohms (2 unit CA-215)	4 amps 2 x 1200 W @ 4 ohms (4 units Aero 38)	4 amps 2 x 1400 W @ 4 ohms (4 units Aero 48)	2 x 2200 W @ 4 ohms (2 units LX-218)	2 x 2200 W @ 4 ohms (2 units LX-218)
Enclosure Geometry	Trapezoidal 5°	Rectangular	Trapezoidal 5°	Trapezoidal 5°		
Enclosure Material	Plywood	Plywood	Plywood	Plywood	Plywood	Plywood
Color/Finish	Black Paint	Black Paint	Black Paint	Black Paint	Black Paint	Black Paint
Rigging System	Integrated in box design	Integrated in box design	Integrated in box design	Integrated in box design	Ground Stackable	Integrated in box design
Connectors	2 XNL4 wired ± 1 low, ± 2 high	2 XNL8 wired ± 1	2 x NL8 wired LF1± 1, LF2± 2, MF± 3, HF± 4	2 x NL8 wired LF1± 1, LF2± 2, MF± 3, HF± 4	2 XNL8 wired ± 1	2 XNL8 wired ± 1
Dimensions (H x W x D)	26.5 x 88.2 x 40 cm 10.4 x 34.7 x 15.8 in	45.2 x 88.2 x 74.6 cm 17.8 x 34.7 x 29.4 in	31.6 x 140 x 60 cm 12.4 x 55 x 23.6 in	47.5 x 140 x 60 cm 18.7 x 55 x 23.6 in	55 x 128 x 65 cm 22 x 51 x 26 in	55 x 135 x 69 cm 22 x 54 x 28 in
Weight	28.5 kg (62.8 lb)	63.5 kg (139.7 lb)	70 kg (154 lb)	100 kg (220 lb)	68 kg (149.6 lb)	82 kg (180.4 lb)
Accessories	AX-CA Rigging Grid AX-Combo Rigging Adapter PL-4-28 Dolly Panel PL-28S Steel Stacking Dolly	AX-CA Rigging Grid FLN-CA-215 Cover	AX-Aero38 Rigging Grid AX-Aero48 Rigging Grid AX-Combo Rigging Adapter PL-38 Dolly Panel (included) PL-38S Steel Dolly PL-48S Steel Dolly	AX-Aero38 Rigging Grid AX-Aero48 Rigging Grid AX-Combo Rigging Adapter FLN-Aero48 Cover PL-38S Steel Dolly PL-48 Dolly Panel (included) PL-48S Steel Dolly	AX-AEFC38 Bumper AX-AEFC48 Bumper KITLX218 Rigging Hardware Kit KITW-100 Caster Kit PL-LX218 Dolly Panel PL-38S Steel Dolly For Stacking	AX-AEFC38 Bumper AX-AEFC48 Bumper KITW-100 Caster Kit PL-LX218 Dolly Panel (included) PL-38S Steel Dolly For Stacking

Notes: 1. Based on a 2 hour test, continuously applying 6 dB crest factor pink noise (IEC shaped).
2. Maximum calculated Peak SPL based on sensitivity and RMS power handling.



CA-215



Aero 38



LX-218R



CA-28B



Aero 48



LX-218

CA-28B

- Módulo matriz lineal de dos vías
- Dos altavoces de 8" con circuitos magnéticos de neodimio
- Motor de compresión de neodimio con salida de 1.5"
- Generador de frente de onda plana SEFPIS[™]
- Recinto trapezoidal ligero y de fácil manejo
- Sistema de volado integrado en la caja

- Two-way, mid-high line array module
- Two 8" loudspeakers with neodymium magnetic assemblies
- Neodymium compression driver with 1.5" exit
- SEFPIS[™] high frequency plane wave generator
- Easily portable and rugged trapezoidal enclosure
- Captive rigging system integrated in the cabinet design

CA-215

- Sistema subwoofer compacto
- Dos altavoces de 15" de excursión larga
- Configuración tipo bass-reflex
- Sistema de volado integrado en la caja
- Cuatro asas con refuerzos de acero
- Cuatro ruedas posteriores

- Arrayable subwoofer unit
- Two 15" long excursion loudspeakers
- Bass-reflex design
- Captive rigging system integrated in the cabinet design
- Four rear casters
- Four steel reinforced bar handles

Aero 38

- Sistema matriz lineal de tres vías
- Dos altavoces de 12" con circuitos magnéticos de neodimio
- Dos altavoces de 10" con circuitos magnéticos de neodimio
- Motor de compresión ND-10 de neodimio
- Sistema de volado integrado en la caja
- Plataforma con ruedas de transporte

- Three-way, medium format line array module
- Two 12" loudspeakers with neodymium magnet assemblies
- Two 10" loudspeakers with neodymium magnet assemblies
- 1.5" ND-10 neodymium driver
- Captive rigging system integrated in the cabinet design
- Detachable front dolly panel

Aero 48

- Sistema matriz lineal de tres vías
- Dos altavoces de 15" con circuitos magnéticos de neodimio
- Cuatro altavoces de 8" con circuitos magnéticos de neodimio
- Dos motores de compresión de neodimio con salida de 1.5"
- Ocho asas con refuerzos de acero
- Plataforma con ruedas de transporte

- Three-way, large format line array module
- Two 15" loudspeakers with neodymium magnet assemblies
- Four 8" loudspeakers with neodymium magnetic assemblies
- Two neodymium compression driver with 1.5" exit
- Captive rigging system integrated in the cabinet design
- Detachable front dolly panel

LX-218/LX 218R

- Sistema subwoofer de alta potencia
- Dos altavoces de 18LX de excursión larga
- Madera contrachapada de 18 mm
- Configuración tipo bass-reflex
- Versión "R" con herrajes de suspensión
- Plataforma con ruedas de transporte

- High performance subwoofer system
- Two 18LX long-excursion loudspeakers
- 18 mm plywood
- Front loaded, bass-reflex configuration
- "R" version with captive rigging system
- Detachable dolly panel





Serpis 28 y 38

Los dispositivos generadores de frentes de ondas isofásicos diseñados por D.A.S. Audio, Serpis 28 y Serpis 38 aseguran el estrechamiento de la cobertura vertical de cada sistema de array y el perfecto acoplamiento entre los mismos.

Gracias a este comportamiento de la dispersión vertical individual de cada elemento del sistema, la directividad del conjunto quedará definida mediante el número de unidades existentes y el ángulo establecido entre ellas mediante el sistema de colgado.

Serpis 28 and 38

The SERPIS 28 and Serpis 38 are D.A.S. designed plane-wave adaptors which provide accurate high frequency summing and the generation of a flat, isophasic wave front.

The complex design of the SERPIS™ adaptor provides narrow vertical coverage eliminating the destructive interference associated with the high frequency sections of traditional multi-box "clusters". The vertical dispersion of the array is determined by the number of units used and the selected splay angles between units.





Sistema de colgado integrado

El sistema de volado integrado en cada recinto de la serie Aero permite crear un array de forma rápida y segura. Las guías de unión necesarias para colgar un sistema Aero están incorporadas en la caja y se guardan dentro de la estructura del sistema de colgador rápido cuando no se usan. Los pasadores de acero de alta resistencia se fijan a la caja evitando así su pérdida.

Los recintos Aero incorporan un mecanismo de angulación situado en la parte posterior del recinto que gira desde el frontal, manteniendo unidos los frontales independientemente del elegido. Esto permite crear arrays "sin huecos" en el plano frontal, manteniendo las prestaciones de un sistema array.

Los ángulos varían de 0° a 10° con incrementos del 2.5° en el caso del CA-28A/CA-28B. En el caso del Aero 38A/38 y Aero 48, los ángulos varían de 0° a 3.2° en incrementos de 0.8° y de 3.2° a 9.6°, en incrementos de 1.6°.

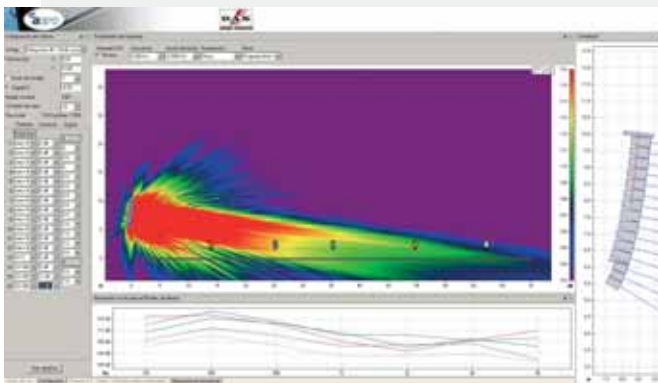


Integrated Rigging Hardware

The integrated rigging hardware built into each Aero unit allows you to get systems out of the truck and into the air quickly and safely. The parts needed to suspend the Aero systems travel with the enclosure, disappearing into the frame when not in use. Each quick release pin can be secured to the Aero enclosures, keeping them from getting lost.

The rear located splay angle adjusters and front pivot points keep the spacing between adjacent modules the same, regardless of the splay angle chosen. This minimizes the gap between front baffles, maintaining the line array performance.

The CA-28A/28B splay angles range from 0° to 10° and can be adjusted in 2.5° increments allowing a wide range of column curvatures to be accomplished. The rear located splay angle adjusters on the Aero 38A/38 and Aero 48 can be changed from 0° to 3.2° in 0.8° increments and from 3.2° to 9.6° in 1.6° increments.

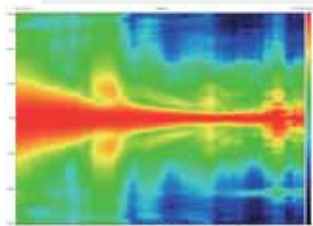


Aero con EASE Focus

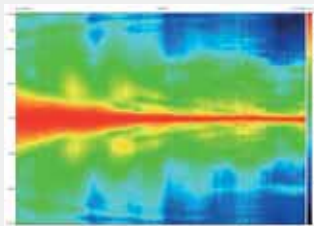
El EASE Focus Aiming Software es un programa de simulación acústica en dos dimensiones para la configuración y modelado de fuentes acústicas como los sistemas line array Aero. Basado en un programa intuitivo y consistente, proporciona al usuario final una herramienta que permite que la predicción del funcionamiento del line array en un determinado recinto sea simple, rápido y preciso. Desarrollado para la plataforma Microsoft .NET, el programa EASE Focus ofrece una fácil utilización, altas prestaciones y portabilidad.

Aero with EASE Focus

The EASE Focus Aiming Software is a two-dimensional, acoustic simulation software for the configuration and modeling of acoustic sources such as the Aero line arrays. Based on an intuitive and consistent interface, EASE Focus provides end users and developers with a tool that makes the prediction of the array performance in a given venue simple, quick and accurate. Developed for the Microsoft.NET platform the software offers great usability, high performance and portability.



Dispersión vertical Aero 28
Vertical dispersion Aero 28



Dispersión vertical Aero 38
Vertical dispersion Aero 38