

AIRLINE LA-Series

Our commitment to advanced technology.

AIRLINE LA-Series line array systems present our commitment to advanced technology offering high fidelity sound, even wide-dispersion characteristics and extreme high spl optimized for use in professional touring applications such as open air concerts, festivals and arenas as well as sound installations in stadiums, houses of worship, large clubs, theatres and musicals.

At the heart of the Coda Audio AIRLINE LA-Series Line-Arrays is the unique 4-inch planar wave driver. Coda Audio developed a unique driver technology to radiate a coherent planar wave front from a rectangular piston without internal diffraction for superior dispersion control and high fidelity sound. The driver contains a high energy neodymium magnet system and a unique annular ring diaphragm. The ring diaphragm works similar as a wound 140 mm long ribbon diaphragm providing linear frequency response up to 20 kHz.

The advanced driver design allows perfect acoustical coupling of individual units to create a virtually continuous and truly coherent line source.



The AIRLINE LA12 is a 3-way symmetrical high output line array module, designed for large venues where high fidelity sound and outstanding intelligibility is required.

State-of-the-art drivers

Low: The cabinet contains two 12" neodymium ultra low distortion cone drivers covering the 50 Hz – 400 Hz range. The double 12" long excursion drivers contain high flux linear motors with triple demodulation rings for ultra low distortion and increased power handling.

Mid: Our goal was to generate very high resolution and high dynamic range. To achieve this we developed a special transducer which works in the mid range as a pure piston without the breaking up modes typical for direct radiating small cone drivers. Another aim was to increase the sensitivity and get outstanding headroom in the very important middle range. The AIRLINE LA12 contains four 3.5" voice coil neodymium mid range drivers with unique ring diaphragms covering the 350 Hz – 1700 Hz range. Loaded to advanced hyperbolic lenses they achieve very high sensitivity of 116 dB 1 W / 1 m above 300 Hz. This means that the drivers need less power to produce enormous high spl and work almost at less than 10% of their nominal power handling. Therefore the ability to reproduce peaks is unique and is practically only limited by the electronics. This patented design is a result of extensive dedicated research and development resulting in near zero power compression, dramatic improvement in dynamic response, clarity and transparency.

High: The three 4" HF planar wave drivers contain unique annular ring diaphragms to radiate a coherent planar

wavefront without internal diffraction. This distinctive technology allows perfect acoustical coupling for superior dispersion control and high fidelity sound.

Coherent wavefront

The tri-axial V-arrangement of the low, mid and high frequency drivers ensures coherent coupling between all components. The high frequency planar wave drivers are mounted in the middle, close to the mid-range hyperbolic lenses. The twin 12" drivers are optimally placed to provide a constant horizontal directivity above 200 Hz. This arrangement combines the energy produced from all 9 transducers to perform as a single source achieving a coherent and uniform wavefront.

Application:

The modules are designed to be used in multiples with a minimum configuration of six. Up to 24 units can be arrayed to achieve extreme high levels needed for the largest venues. The use of SC8 / SC8F subwoofers increases the low frequency response. The integrated rigging system allows quick and easy flying or ground stacking. Arrays may be built straight or curved in various angles to obtain the desired vertical coverage. The Coda EASE Focus simulation software allows you to calculate the perfect setup for every application. Designed for large scale touring and installation applications the AIRLINE LA12 is perfectly suited for open air, stadiums and large theatres where outstanding output capability and low power compression are needed. Applications include sports venues, stadiums, large theatres and large houses of worship, touring and open air festivals.

AIRLINE LA12

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3-way symmetrical high output
line array system



- Three Coda Audio 4" neodymium planar wave drivers (patent pending)
- Four Coda Audio 3.5" coil neodymium mid range drivers
- Twin Coda Audio 12" neodymium ultra low distortion woofers
- 100° horizontal coverage
- Variable curving 0° - 8°
- Outstanding SPL capability at very low power compression
- Highest output to size ratio
- Highest output to weight ratio
- Superior sound
- Integrated rigging system for flown or ground-stacked arrays
- System components: RC40 Rack, SC8

TECHNICAL SPECIFICATIONS LA12

Type:	3-way high output line array module
Application:	Minimum 4, maximum 24 units line array
Frequency response:	50 Hz – 20 kHz (-3dB)
Power handling:	
Low AES/Peak:	2000 / 8000 W
Mid AES/Peak:	600 / 6000 W
High AES/Peak:	240 / 2400 W
Sensitivity Low 1 W / 1 m:	98 dB
Sensitivity Mid 1 W / 1 m:	116 dB
Sensitivity High 1 W / 1 m:	118 dB
Max. SPL peak Low:	137 dB
Max. SPL peak Mid:	153 dB
Max. SPL peak High:	152 dB
Dispersion Horizontal:	100°
Vertical:	Array dependent, 0° - 8° in 1° steps
Components:	
Low frequency:	2 x 12" neodymium woofers 4" voice coil, 1000 W (AES) each
Mid frequency:	4 x 2" neodymium drivers 3.5" voice coil, 150 W (AES) each
High frequency:	3 x 4" neodymium planar wave drivers 1.75" voice coil, 80 W (AES) each
Crossover point:	350 Hz, 1.600 Hz active
Input connectors:	Neutrik™ NL8MPR-BAG
Patch cable:	Included
Nominal impedance:	LF1: 16 Ohm (+1 / -1) LF2: 16 Ohm (+2 / -2) MF: 16 Ohm (+3 / -3) HF: 24 Ohm (+4 / -4)
Enclosure shape:	Horizontal trapezoid 2 x 4°
Enclosure material:	Baltic birch plywood
Finish:	Black textured Paint
Flying Hardware:	Included
Dimensions:	1108 x 339 x 495 mm
Net weight:	67 kg

SYSTEM PERFORMANCE

Array	Horizontal Coverage	Vertical Coverage	Maximum Peak Output
1 Enclosure	100°	-	137 dB
2 Enclosures	100°	0 – 8° adjustable	143 dB
3 Enclosures	100°	0 – 32° adjustable	149 dB
4 Enclosures	100°	0 – 64° adjustable	155 dB

ACCESSORIES

FR120	Compact frame for flying up to 24 units of AIRLINE LA12 with safety factor 1:10
FR122	Compact frame for flying or ground stacking AIRLINE LA12 and/or SC8F in cardio mode
FR002	Upgrade kit FR120 to FR122
FR128	Alteration frame kit for FR8, for flying AIRLINE LA8 under AIRLINE LA12
DOL LA12	Transport and rigging dolly for single AIRLINE LA12
DOT LA12	Transport and rigging dolly for up to 4 units AIRLINE LA12 incl. Lid
KIT 12F	Adaptor kit for fixing FR120 / FR122 frame to DOT LA12 dolly
EXBAR 12	Extension bar for FR120 / FR122 frame
CO LA12x4	Protection cover for 4x AIRLINE LA12
CAL8SP-20	8-pole loudspeaker cable, 8x4 mm, 20 m

RIGGING POSSIBILITIES

LA12 + SC8F

LA12 + LA8

