

Large-Format Line Arrays

By George Petersen

Tours and installs in arenas, stadiums and larger venues typically need long throw, high power systems, that call out the really big guns — typically in the form of large-format line arrays, here defined as systems with dual 12- or 15-inch woofers. In such applications, systems are rarely used as simple pairs and are usually deployed in multiple box arrays, with prices determined as part of an overall system purchase (typically with subs, amps, rigging, wiring, processing, etc.) and as such, single-cabinet pricing is less meaningful and not provided. URLs for each company are attached; contact the manufacturer for more information. Note: At press time, VUE Audiotechnik had just unveiled its AL-12. See page 38 for more details.

Atlas Sound A-Line AL123A-B



LF: (2) 12" woofers
MF: (4) 6" cone mids
HF: (2) 1.4" compression drivers
Frequency Response: 70 Hz to 18 kHz
Horizontal Dispersion: 120°
Size (HxWxD): 13.9 x 45.3 x 16.3"
Weight: 133 pounds
Power: Onboard 3,600W triamped
Notes: Network controllable onboard DSP
Companion Sub: AL218A-B dual-18

atlasied.com

Clair Global Cohesion CO-12



LF: (2) 12" neodymium woofers
MF: neodymium mid drivers
HF: neodymium compression drivers
Frequency Response: 35 Hz to 20k Hz
Horizontal Dispersion: 80° (120° version also avail.)
Size (HxWxD): 14 x 45 x 22"
Weight: 132 pounds
Power: External via Clair StakRack or PakRak
Notes: Proprietary Clair/Lake processing
Companion Sub: Cohesion CP118 or CP218

clairglobal.com

DAS Audio Aero Series 2 Aero 50



LF: (2) 15" neodymium woofers
MF: (4) 8" cone neodymium mids
HF: (2) 1.5" exit, neodymium drivers
Frequency Response: 45 to 20k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 18.7 x 53.1 x 24.7"
Weight: 187 pounds
Power: Unpowered
Notes: Splay angles adjust in 0.8° increments
Companion Sub: LX-212/LX212R/LX212A

dasaudio.com

D&B Audiotechnik J12



LF: (2) 12" neodymium woofers
MF: 10" cone, horn-loaded mids
HF: (2) 1.4" exit drivers
Frequency Response: 48 Hz to 17k Hz
Horizontal Dispersion: 120°
Size (HxWxD): 14.2 x 43.3 x 22.4"
Weight: 132 pounds
Power: D12 amplifier 2x1200W with DSP
Notes: V12 installation version available
Companion Sub: J-SUB cardioid sub

dbaudio.com

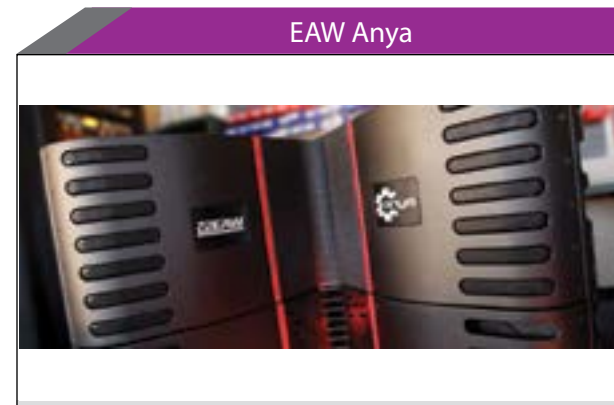
Coda Audio AiRAY



LF: (2) 12" neodymium woofers
MF/HF: (2) coaxial 6" dual-diaphragm planar-wave drivers
Frequency Response: 50 Hz to 22k Hz
Horizontal Dispersion: Variable 90/100/110°
Size (HxWxD): 26.5 x 14.7 x 22.5"
Weight: 83.6 pounds
Power: Unpowered
Notes: Extremely compact design
Companion Sub: SC2-F or SCV-F

codaudio.com

EAW Anya



LF: (2) 15" aperture-loaded woofers
MF: (6) 5.25" cone horn-loaded mids
HF: (14) 1" exit drivers, horn-loaded
Frequency Response: 35 Hz to 18k Hz
Horizontal Dispersion: 70°
Size (HxWxD): 45 x 16.9 x 30"
Weight: 285 pounds
Power: 10,000W triamped Class-D w/DSP
Notes: Built-in microphone for in-situ diagnostics
Companion Sub: Otto Adaptive Subwoofer

eaw.com


L-Acoustics K2



LF: (2) 12" woofers
MF: (4) 6.5" cone mids
HF: (3) 3" diaphragm drivers on DOSC waveguides
Frequency Response: 35 Hz to 20k Hz
Horizontal Dispersion: 110°
Size (HxWxD): 14.2 x 52.7 x 15.8"
Weight: 123 pounds
Power: Turnkey amp rack/DSP system optional
Notes: Variable curvature Wavefront Sculpture Technology
Companion Sub: K1-SB (arrayable); SB28 (stackable)

l-acoustics.com

McCauley Sound MLA3-2i



LF: (4) 12" woofers
MF: (4) 8" cone mids
HF: (6) 1" exit drivers
Frequency Response: 40 Hz to 18,5k Hz (-3dB)
Horizontal Dispersion: 90°
Size (HxWxD): 20 x 43.3 x 26"
Weight: 200 pounds
Power: Unpowered 4-way (LF1, LF2, MF, HF)
Notes: Full-range, long-throw install system; available with weather-sealed components and marine-treated enclosure.
Companion Sub: M882i dual-18

mccauley.com

Lynx Pro Audio LX-V12



LF: (2) 12" neodymium woofers
MF: (4) 6.5" cone mids
HF: (2) 1.4" exit neodymium drivers
Frequency Response: 55 Hz to 18k Hz
Horizontal Dispersion: 100°
Size (HxWxD): 14.5 x 46.25 x 20"
Weight: 163 pounds
Power: 4,000W Class-D
Notes: Onboard DSP with FIR filters
Companion Sub: LX-218S/LX-318C

lynxproaudio.com

Meyer Sound Labs LEO-M



LF: (2) 15" long-excursion woofers
HF: (2) 4" diaphragm compression drivers
Frequency Response: 55 Hz to 18k Hz
Horizontal Dispersion: 100°
Size (HxWxD): 17.9 x 41.4 x 23"
Weight: 265 pounds
Power: 3-channel complementary MOSFET output stages (Class-AB/H bridged)
Notes: Galileo Callisto loudspeaker management provides matrix routing, alignment and processing.
Companion Sub: 1100-LFC

meyersound.com

Martin Audio MLA



LF: (2) 12" neodymium Hybrid horn-loaded
MF: (2) 6.5" cone neodymium mids
HF: (3) 1" exit neodymium drivers
Frequency Response: 52 Hz to 18k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 14.6 x 44.7 x 26.5"
Weight: 193 pounds
Power: (6) Class-D, 6,000W peak total
Notes: DSP/networking control of each array cell
Companion Sub: MLX Sub-Bass

martin-audio.com


Nexo STM 46/STM B112



LF: 12" neodymium woofer (in single Bass Module)
MF: (4) 6.5" flat membrane drivers
HF: (4) 1.4" exit neodymium drivers
Frequency Response: 55 Hz to 20k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 13.8 x 45.3 x 28.2"
Weight: 260 pounds
Power: External NXAMP4x4 powering/DSP module
Notes: Dimensions describe STM 46 main module and STM B112 bass module. Modular system allows multiple configurations.
Companion Sub: STM S118

nexo-sa.com

Adamson E-15



LF: (2) ND15 15" neodymium/Kevlar woofers
MF: (2) YX7 7" Kevlar cone mids
HF: (2) Adamson NH4 1.5" exit drivers
Frequency Response: 60 Hz to 18k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 15.4 x 51.4 x 21.4"
Weight: 176 pounds
Power: Adamson E-Rack Powering
Notes: Active 3-way Lake presets
Companion Sub: E218, E219

adamsonsystems.com

Alcons Audio LR24



LF: (2) 12" neodymium woofers
MF: (4) 6.5" cone neodymium mids
HF: 14" RBN pro ribbon driver
Frequency Response: 51 Hz to 20k Hz
Horizontal Dispersion: 80°
Size (HxWxD): 15.8 x 43.4 x 21.1"
Weight: 143 pounds
Power: External Sentinel 10 4x2.5kW amp w/LR 24 drive processing
Notes: Sentinel 10 has 192 kHz AES inputs and touch screen control
Companion Sub: LB24 dual-12"

alconsaudio.com

Electro-Voice Xvls



LF: (2) 15" EVX-155PL woofers
MF: (2) ND08 8" cone mids
HF: (3) 1.4" exit ND6-16 drivers
Frequency Response: 50 Hz to 16k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 19.5 x 45 x 29.2"
Weight: 258 pounds
Power: Unpowered
Notes: Designed for long-throw applications
Companion Sub: Xsub F

electrovoice.com

ISP Technologies HDL 4212



LF: (2) 12" neodymium woofers
MF: (2) 6.5" cone mids
HMF: (2) 2" exit drivers
HF: (4) 1.75" exit drivers
Frequency Response: 68 Hz to 18k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 15 x 43.5 x 27.5"
Weight: 185 pounds (with amps)
Power: Six amps provide 2,000W total
Notes: Outboard digital crossover required
Companion Sub: XMAX 218

ispproaudio.com

JBL VTX Series V25-II



LF: (2) 15" 2267H neodymium woofers
MF: (4) 8" 2169H cone neodymium mids
HF: (3) 2430K D2 Dual Drivers
Frequency Response: 35 Hz to 18k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 16.3 x 48.2 x 24.2"
Weight: 182 pounds
Power: Unpowered; V5 Processing with Crown I-Tech HD or VRACK optional.
Notes: Fixed-angle ASM suspension and CS (Compression System) versions offered.
Companion Sub: S28 (flyable) and G28 (ground) dual-18 subs offered.

jblpro.com

Next Pro Audio LA212X



LF: (2) 12" neodymium woofers
MF: 10" cone midrange
HF: (2) 1.4" neodymium HF
Frequency Response: 60 Hz to 19k Hz
Horizontal dispersion: 90°
Size (HxWxD): 15 x 40.2 x 19.7"
Weight: 134.2 pounds
Power: Unpowered
Notes: All custom B&C drivers
Companion Sub: LAs118A, LAs218, LAs418

next-proaudio.com

Outline GTO



LF: (2) 15" woofers
MF: (4) 8" cone mids
HF: (4) 3" diaphragm neodymium drivers
Frequency Response: 50 Hz to 18k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 18.1 x 44.3 x 25.8"
Weight: 212 pounds
Power: Unpowered
Notes: GTO-DF (downfiring) cabinet also available
Companion Sub: Dual-15 GTO-LOW, dual-18 GTO-SUB

outline.it

Peavey Versarray 212



LF: (2) 12" neodymium Black Widow woofers
MF: (10) 2.5-inch cone neodymium mids
HF: (4) 4.75" planar ribbon tweeters
Frequency Response: 70 Hz to 20k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 14 x43 x 11.75"
Weight: 93 pounds
Power: unpowered
Notes: Ribbon tweeters in manifold line source
Companion Sub: Versarray 218

peavey.com

PK Sound Trinity



LF: (2) 12" neodymium woofers
MF: (4) cone midrange
HF: (2) coaxial HF
Frequency Response: 40 Hz to 22 kHz
Horizontal dispersion: Variable, 60° to 120°
Size (HxWxD): 13.8 x 54.8 x 23"
Weight: 259 pounds
Power: 6,000 watts, Class-D
Notes: Remotely adjustable horizontal and vertical dispersion
Companion Sub: CX800

pksound.ca

RCF TTL-55A



LF: (2) 12" neodymium woofers
MF: 10" cone neodymium mid
HF: (3) 1.5" exit neodymium drivers
Frequency Response: 50 Hz to 20k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 15 x 40 x 21.6"
Weight: 148 pounds
Power: 3,500W onboard
Notes: 96 kHz, 32-bit DSP with RDNet control
Companion Sub: TTS56-a 6,800W, dual-21"

rcf.it

Renkus-Heinz VerSys VLX3



LF: (2) 12" neodymium woofers
MF: (2) 6.5" cone in CoEntrant horn
HF: (2) 2.5" drivers in CoEntrant horn
Frequency Response: 45 Hz to 18k Hz
Horizontal Dispersion: 60/90/120° avail.
Size (HxWxD): 17.25 x 38.5 x 26.5"
Weight: 175 pounds
Power: unpowered
Notes: RHAON-enabled powered VL3 version also offered
Companion Sub: DRS18-1B/DR18-1R

renkus-heinz.com

Sound Bridge Labs 7222XY



LF: (2) 12" neodymium woofers
HF: (2) neodymium EXO drivers
Frequency Response: 50 Hz to 22k Hz
Horizontal Dispersion: 120°
Size (HxWxD): 13.75 x 41.7 x 27.5"
Weight: 141 pounds
Power: Unpowered
Notes: MF/HF drivers on Q-Drive WaveShaper horns
Companion Sub: 7218SWX, 7218SWX-F, 7221SWX

soundbridge.com

True Vision Inc. C-212ii



LF: (2) 12" woofers
MF: (2) 8" cone mids
HF: (2) 1.7" exit drivers
Frequency Response: 50 Hz to 19k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 14.5 x 46.2 x 24"
Weight: 179 pounds
Power: Unpowered
Notes: Powered version available
Companion Sub: C-218-12

tviaudio.com

Turbosound Flashline TFS-900H



LF: (2) 12" woofers
LMF: (4) 6.5" cone lower mids
HMF: (2) 6.5" cone upper mids
HF: (3) 1" exit drivers
Frequency Response: 70 Hz to 18k Hz
Horizontal Dispersion: 90°
Size (HxWxD): 14.2x48.8x22.4"
Weight: 224 pounds
Power: 4 ch. 20000DP amp with Lake processing
Notes: MF/HF drivers on Dendritic waveguides
Companion Sub: TFS-900B

turbosound.com