Christie LA3
Line array speaker

Exclusive ribbon driver line array for cinema

The Christie® LA3 line array speaker combines advanced ribbon driver technology with a unique coaxial articulated line array design to provide greatly enhanced clarity, dramatically reduced distortion and ultra-fast transient response. The extremely low mass of the ribbon drivers allows the Christie LA3 to respond very quickly to signals. This eliminates the effects of high frequency breakup and power compression while enabling extended high frequency response and the accurate reproduction of the original source material.

Key features

Christie exclusive single enclosure coaxial articulated line array design

18 x 3.5" ribbon drivers, plus 12 x 5.25" paper/Kevlar composite cone drivers

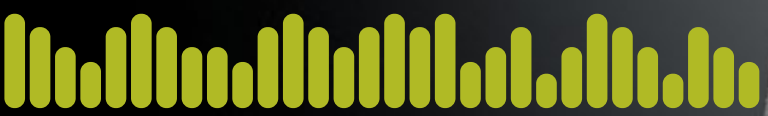
Dramatically higher RMS to peak max SPL ratio than compression driver systems

Extremely even coverage, typically ±2dB SPL throughout entire audience area

Approximately four times the optimal listening area than typical systems

Enhanced voice intelligibility, low distortion and highly controlled dispersion

Limited five year warranty



CHRISTIE® VIVE AUDIO

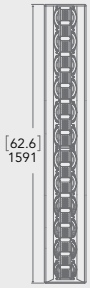
Sound exactly where it is needed

The Christie LA3 features very wide 120° horizontal dispersion and highly controlled 40° vertical dispersion patterns – placing sound exactly where it is needed. The Christie LA3 has a 2-way linear phase, internal passive crossover and can be combined with Christie S215 subwoofer to create a 3-way, bi-amplified, full range speaker/sub system, ideal as a screen channel for ±300 seat auditoriums. It is extremely versatile with a range of applications and installation options, from being mounted to flown.

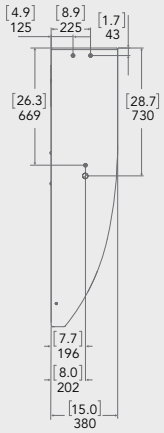
Specifications	
System type	• Coaxial articulated ribbon driver line array, 2-way, passive, in a single sealed enclosure
Driver components	• 18 x 3.5" ribbon drivers with Neodymium magnets • 12 x 5.25" paper/Kevlar composite cone drivers
Crossover	• Linear phase, asymmetric, 2-way, passive @ 1.6 kHz, 24dB/octave
Frequency Response	• 80-20kHz @ -6dB[1]
Maximum SPL	• 126dB, continuous[2] • 137dB, peak[3]
System coverage	• 120° horizontal dispersion • 40° vertical dispersion[4]
Sensitivity[1], 1m/2.83V	• 99dB (150Hz-5kHz)
Power handling[2,3]	• 1000W (AES) continuous • 2000W (IEC) short term (12dB crest factor)
Recommended amplifier power	• 850-1500W (FTC) @ 4 ohms
Rated impedance	• 4 ohms
Input connectors	• Screw terminal barrier strip
Enclosure	• Closed box alignment • 18mm marine plywood • Heavily damped and braced
Mounting Options	• On subwoofer using BKT-LA3 tilt bracket • Flown under subwoofer using BKL-LA3 "L" bracket • Wall mounted using 4 x M8 points • Includes a total of 7 x M10 fly points for total versatility
Accessories (optional)	• Christie S215 subwoofer • BKT-LA3 tilt bracket (for mounting on Christie S215) • BKL-LA3 "L" bracket (for flying under Christie S215) • Allen Products Omnimount 120.0ST-MP MM-120 (for wall mount)
Dimensions	• (LxWxH) 15.0 x 9.4 x 62.6" (380 x 238 x 1591mm)
Net weight	• 82lbs (37kg)
Warranty	• Limited five year warranty

[1] Due to the nature of line array radiation and wave front propagation all response measurements and calculations where performed at a distance of 4 and 8 meters, outdoors and then scaled back to 1m distance. A proper line array response curve at a distance has a natural 4-5 dB/octave HF roll-off starting at 4-5kHz. Such conditions most closely match typical cinema applications. [2] AES, 6dB crest factor at 1m. Max continuous SPL calculated based on sensitivity and AES power handling.[3] Short-term IEC 268-5 pink noise, 12dB crest factor, the crest factor was specifically increased to reflect real life parameters of digital cinema sound tracks. Peak SPL calculated based on short-term power, 3dB reduction is used for compression effects. Ribbon driver technology has the ability to produce double the peak capacity (12dB) above the RMS value to that of conventional transducers. 12dB peaks with durations of 200 ms are possible, providing better transient response without high frequency breakup or power compression. [4] Averaged in 100 Hz-20kHz range, not accounting for screen scattering, which will increase coverage by another 10-15% above 5kHz.

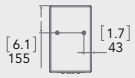
Front view



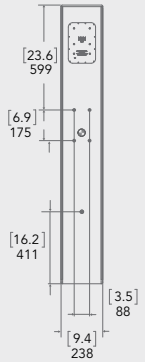
Side view



Top view



Back view



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