



# technical specifications LR28/110

## general

- Ultra-high-performance line-array system for even the largest applications
- HiFi sound quality at concert Sound Pressure Levels
- 14" pro-ribbon HF section with exceptional intelligibility and "throw"
- Maximum dynamic headroom reserve with lowest distortion
- Wide horizontal dispersion for extended coverage from lower array section
- SIS™ pre-wired for very high damping and further reduced distortion



## description

The LR28/110 is a 3-way, "larger-format" line-source sound system, to be used as vertical array with extended horizontal coverage, in even the largest applications.

The LR28/110 combines the highest sound quality possible with very high SPL capabilities and throw. It offers a fully predictable linear response behavior, with perfect intelligibility and identical tonal balance at any SPL. By implementing Alcons' pro-ribbon technology for mid and high frequencies, a super-fast impulse response with up-to-90% less distortion under lowest power-compression is achieved.

The all-natural cylindrical wavefront of the multiple-patented, purpose-designed RBN1402rsr pro-ribbon

transducer enables a precise pattern control, without any distortion-inducing horn constructions. The patented 110-degree horizontal dispersion is maintained up to the highest frequencies; The HF peak power handling of 3000W and RMS-to-peak ratio of 1:15, caters for a superb intelligibility and throw with maximum dynamic headroom reserve.

The MF-section features 4 high-efficiency 6.5" midrange transducers with Neodymium motor-structure in a slot-loaded configuration.

The mid section and RBN high section are jointly mounted in/on the aluminium cassette for optimized heat-dissipation/reduced power-compression and prolonged system output.

The LF section consist of 2 reflex-loaded, custom 14" woofers with reinforced cone and large voice-coil Neodymium motor-structure for improved heat dissipation to reduce power compression.

The LR28/110 is powered and controlled by 4 channels of the Sentinel10 amplified loudspeaker controller; Through the integrated processing and feedback, the ALC offers LR28-specific drive processing with array-compensation, filter-presets, system eq, phase-matching, a.o.

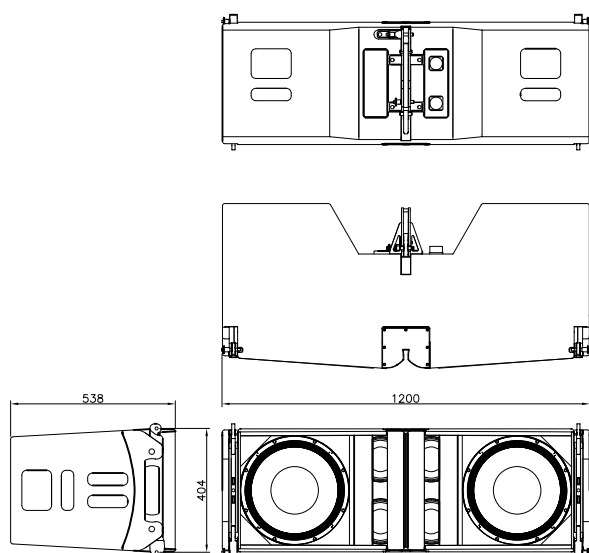
The Signal Integrity Sensing™ pre-wiring of the LF and MF sections ensures dynamic cable/connector compensation

between the LR28/110 and Sentinel, resulting in a fast and tight mid and bass response, while reducing distortion even further (system damping factor 10.000).

The rigging system enables angle-setting on the cabinets, without lifting the array, resulting in safer and faster set-up with minimal handling. The unique, patent-pending flying system facilitates two different ways of array assembling, caterpillar and pre-rig-style, with compressed and non-compressed suspension. It has a WLL of 24 cabinets under 10:1 safety.

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### dimensional drawing



### technical specifications

Frequency response	50 Hz – 20 kHz	(+/- 3 dB)
	37 Hz -	(+/- 10 dB)
Sensitivity nominal	108 dB (200 Hz – 10 kHz)	
Nominal impedance	LF 2x 8 ohms, MF 8 ohms, HF 8 ohms	
Recommended drive	ALC Sentinel10	
Nominal SPL peak	142 dB (Sentinel10 200 Hz – 10 kHz)	
Dispersion H x V (array)	110° x depending on array length	
Dispersion H x V (single)	110° x 6° (@ 10 kHz)	

### physical specifications

System	4-way, full-range	
Filtering	3-way active	
Drivers LF	2x AW14.35ND-8 14", vented	
Drivers MF	4x AM65ND-8 6.5", vented	
Drivers HF	1x RBN1402rsr 14" pro-ribbon driver	
Connectors	2x 14-pin CaCom: input / link	
Physical dimensions	mm	inches
Height	404	15.8
Width	1200	47,2
Depth	538	21,1
Weight (approx.)	63 kg	138.9 lb
Warranty	6 years limited	

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