



## technical specifications LR28/80

### 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
- Fully coherent pattern control in horizontal and vertical plane
- SIS™ pre-wired for very high damping and further reduced distortion

### description

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

The LR28 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 80-degree horizontal dispersion is maintained down to 190 Hz.; The HF peak power handling of 3000 W 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 is powered and controlled by 4 channels of the Sentinel10 amplified loudspeaker controller;

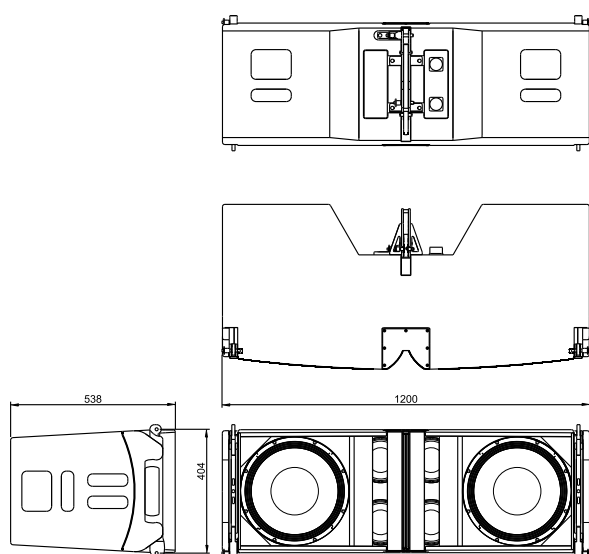
Through the integrated processing and feedback, the ALC offers LR28-specific drive processing with array-compensation, filter-presets, system eq, phase-matching, a.o.

The Signal Integrity Sensing™ pre-wiring of the LF and MF sections ensures dynamic cable/connector compensation between the LR28 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	110 dB (200 Hz - 10 kHz)
Nominal impedance	LF 2x 8 ohms, MF 8 ohms, HF 8 ohms
Recommended drive	ALC Sentinel10
Nominal SPL peak	144 dB (Sentinel10 200 Hz - 10 kHz)
Dispersion H x V (array)	80° x depending on array length
Dispersion H x V (single)	80° 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	2x AM65ND-8 6.5", sealed	
Drivers HF	1x RBN1402rs 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.)	kg	lb
	63	138,9
Warranty	6 years limited	

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