



## technical specifications LR24/90

### general

- High-performance line-array system for medium to larger applications
- HiFi sound quality at concert Sound Pressure Levels
- 12" pro-ribbon HF section with exceptional intelligibility and "throw"
- Maximum dynamic headroom reserve with lowest possible distortion
- Fully symmetric and coherent pattern control in horizontal and vertical plane
- SIS™ pre-wired for very high system damping and further reduced distortion



### description

The LR24/90 is a 3-way, "mid-size" format line-source sound system; Loaded with Alcons' multiple-patented pro-ribbon technology for mid and high frequencies, the system features a super-fast impulse response with up-to-90% less distortion. This results in a fully intuitive linear response, with perfect intelligibility and non-compressed identical tonal balance at any SPL.

The all-natural cylindrical wavefront of the purpose-designed RBN1202rs 12" pro-ribbon transducer and the acoustically and electronically symmetrical component configuration bring a unique pattern control in both the vertical as well as the horizontal plane, up to the highest frequencies without any distortion-inducing horn constructions. The ultra-coherent vertical dispersion enables a perfect inter-cabinet coupling for ultimate HF throw and wind-stability.

The remarkable intelligibility and maximum dynamic headroom reserve is due to the RBN1202's enormous power handling of 2500W and RMS-to-peak ratio of 1:15, from 1 kHz to 20 kHz.

The MF-section features two high-efficiency 6.5" midrange transducers with Neodymium motor-structure, coaxially mounted behind the HF driver in a horn-loaded configuration.

The LF-section delivers a super accurate bass with highest output under lowest distortion possible. The new-generation 12" transducers are fitted with a large, dual-3.5" voice-coil Neodymium motor, enabling a significantly-extended excursion, while maintaining a high sensitivity.

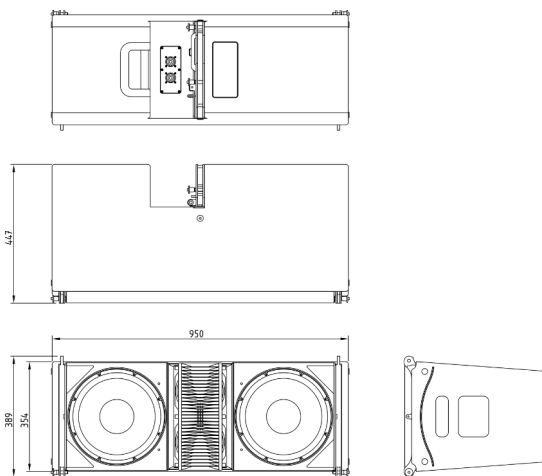
The LR24/90 is driven by the Sentinel amplified loudspeaker controller, optimising the system's response by system-specific drive processing and feedback for each array configuration, including presets for phase-matched low-frequency extensions.

The Signal Integrity Sensing™ pre-wiring ensures dynamic cable/connector compensation between the LR24/90 and ALC; This offers a 1:1, undistorted natural sound reproduction, regardless of cable length and amplifier impedance load (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 both 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        | 58 Hz - 20.000 Hz                            | (+/- 3 dB)  |
|                           | 46 Hz -                                      | (+/- 10 dB) |
| Sensitivity nominal       | 109 dB (200 Hz - 10 kHz)                     |             |
| Nominal impedance         | LF 8 ohms, MHF 8 ohms                        |             |
| Recommended drive         | Sentinel10, max. 2 pcs. per channel (4 ohms) |             |
| Nominal SPL peak          | 142 dB (Sentinel10 200 Hz - 10 kHz)          |             |
| Dispersion H x V (array)  | 90° x depending on array length              |             |
| Dispersion H x V (single) | 90° x 8° (@ 10 kHz)                          |             |

### physical specifications

|                     |                                    |        |
|---------------------|------------------------------------|--------|
| System              | 3-way, full range                  |        |
| Filtering           | 2-way active, 2-way passive        |        |
| Drivers LF          | 2x AW12.352ND-16 12", vented       |        |
| Drivers MF          | 2x AM65ND-16 6.5", sealed          |        |
| Drivers HF          | 1x RBN1202rs 12" pro-ribbon driver |        |
| Connectors          | 2x Speakon NL8 input/link          |        |
| Physical dimensions | mm                                 | inches |
| Height              | 354                                | 13.9   |
| Width               | 950                                | 37.4   |
| Depth               | 447                                | 17.6   |
| Weight (approx.)    | kg                                 | lb     |
|                     | 45                                 | 99,2   |
| Warranty            | 6 years limited                    |        |

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