

# KARA

## MODULAR WST® LINE SOURCE

The **KARA** modular line source element has an operating frequency bandwidth from 55 Hz to 20 kHz. This response can be lowered down to 32 Hz with the addition of the SB18 low frequency extension.

KARA features a 2-way, bi-amplified design and is equipped with 2 x 8" neodymium LF speakers in a bass-reflex tuned enclosure. The HF section features a 3" neodymium diaphragm driver coupled to a DOSC® waveguide.

The K-shaped coplanar transducer configuration generates a symmetric horizontal coverage of 110° without secondary lobes over the entire frequency range. The combination of coplanar symmetry and DOSC® waveguide allows the system to fulfil the 5 WST® criteria. Any KARA line source can be curved up to a maximum of 10° for each element without breaking the inter-element acoustic coupling.

The KARA enclosure is made of first grade Baltic birch plywood to ensure maximum acoustical and mechanical integrity. The 4 point rigging system allows suspending up to 24 KARA in a single array.

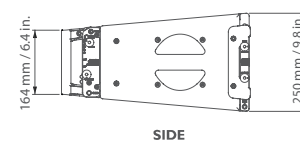
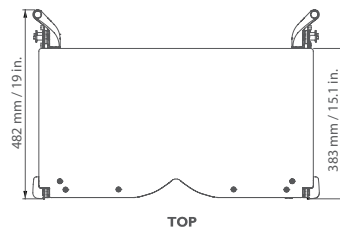
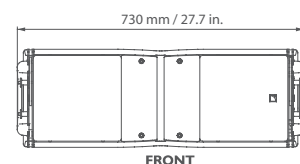
The KARA system is driven by the dedicated LA8 amplified controller which ensures active system linearization, intelligent transducer protection, and optimization for 3 operating modes:

- The "FULL RANGE" mode for standalone Line Source arrays or distributed applications
- The "HIGH-PASS" mode for fills or for KARA as a KI downfill
- The "LOW EXTENSION" mode for KARA/SB18 configurations.

The performance of KARA depends upon the choice of electronic preset and physical system configuration.



|                                   |   |
|-----------------------------------|---|
| <b>Usable bandwidth (-10dB)</b>   | 55 Hz - 20 kHz ([KARA] preset)  |
| <b>Nominal directivity (-6dB)</b> | Horizontal: 110° symmetric<br>Vertical: Dependent upon number of elements and line source curvature   |
| <b>Maximum SPL<sup>1</sup></b>    | 139 dB ([KARA] preset)  |
| <b>RMS handling capacity</b>      | LF: 450 W<br>HF: 80 W   |
| <b>Components</b>                 | LF: 2 x 8" neodymium weather-resistant<br>HF: 1 x 3" neodymium diaphragm compression driver<br>Nominal impedance: LF = 8 ohms, HF = 8 ohms  |
| <b>Rigging<sup>2</sup></b>        | Steel, certified for: 24 KARA (BGV-C1 compliant)<br>Angle increments: 0, 1, 2, 3, 4, 5, 7.5, 10°  |
| <b>Physical data</b>              | W x H/h x D: 730 x 250/164 x 482 mm<br>27.7 x 9.8/6.4 x 19 in<br>Weight (net): 26 kg 57.2 lbs<br>Connectors: 2 x 4-point Speakon®<br>Material: baltic birch plywood<br>Finish: Grey-brown, RAL 8019®<br>Front: polyester powder-coated steel grill, airnet® acoustically neutral fabric<br>Rigging: steel with dual coating zinc and polyester powder |



<sup>1</sup> Peak level measured at 1 m under free field conditions using 10 dB crest factor pink noise with specified preset and corresponding EQ settings.  
<sup>2</sup> Installation guidelines are specified in the SOUNDVISION software designed to help with L-ACOUSTICS® product implementation.