



KARAI

MODULAR WST[®] LINE SOURCE

The **KARAI** 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 SB18i low frequency extension.

KARAI 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.

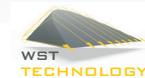
The K-shaped coplanar transducer configuration generates a symmetric horizontal coverage of 110° without secondary lobes over the entire frequency range. The combination of coplanar symmetry and DOSC[®] waveguide allows the system to fulfil the 5 WST[®] criteria. Any KARAI line source can be curved up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

The KARAI enclosure is made of first grade Baltic birch plywood to ensure maximum acoustical and mechanical integrity. The enclosure meets the IP45 rating for protection from solids and liquids. The 4-point rigging system allows suspending up to 12 KARAI in a single array.

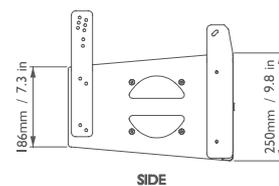
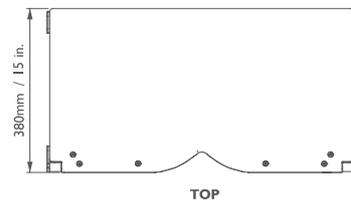
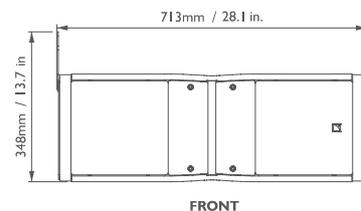
The KARAI system is driven by the dedicated LAB amplified controller which ensures active system linearization, intelligent transducer protection, and optimization for 3 operating modes:

- The "FULL RANGE" mode for standalone line sources arrays or distributed applications.
- The "HIGH-PASS" mode for fills.
- The "LOW EXTENSION" mode for SB18i/KARAI configurations.

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



Usable bandwidth (-10dB)	55 Hz - 20 kHz ([KARA] preset)
Nominal directivity (-6dB)	Horizontal: 110° symmetric Vertical: Dependent upon number of elements and line source curvature
Maximum SPL¹	141 dB ([KARA] preset)
RMS handling capacity	LF: 450 W HF: 80 W
Components	LF: 2 x 8" neodymium HF: 1 x 3" neodymium diaphragm compression driver Nominal impedance: LF = 8 ohms, HF = 8 ohms
Rigging²	Steel, certified for: 12 KARAI (BGV-C1 compliant) Angle increments: 0, 1, 2, 3, 4, 5, 7.5, 10°
Physical data	W x H/h x D: 713 x 250/186 x 380 mm 28.1 x 9.8/7.3 x 15 in Weight (net): 23.5 kg - 51.7 lbs Connectors: 2 x 4-point Speakon [®] Material: Baltic birch plywood Finish: Dark grey brown Pantone [®] 426C custom RAL [®] code on special order Front: Polyester powder-coated steel grill, airnet [®] acoustically neutral fabric Protection rating: IP45 Rigging: Steel with zinc and polyester powder dual coating



¹ Peak level at 1 m under free field conditions using pink noise with crest factor 4 (preset specified in brackets).

² Installation guidelines are specified in SOUNDVISION software designed to help with L-ACOUSTICS[®] product implementation.