



KUDO

LARGE FORMAT WST® LINE SOURCE

KUDO® is a large format line source operating on a frequency range from 35 Hz to 20 kHz. The frequency range can be extended to either 32 Hz or 25 Hz with the addition of the complimentary SB18 and SB28 subwoofers, respectively.

The KUDO system is a 3-way, quad-amplified design and is equipped with two 12" LF transducers mounted in a bass-reflex enclosure, four 5" high efficiency MF transducers, and two 1.75" HF diaphragm compression drivers coupled to individual DOSC® waveguides. The cabinet incorporates the K-LOUVER® Modular Directivity Technology (Patent pending) allowing mechanical adjustment of the MF/HF directivity with 4 possible settings in the plane perpendicular to the DOSC® waveguides. The alliance of coplanar symmetry and DOSC® waveguides allows KUDO to fulfil the 5 WST® criteria.

The KUDO enclosure is made of first grade Baltic birch plywood to ensure maximum acoustical and mechanical integrity. The four-point rigging system is entirely captive and almost invisible when recessed into the cabinet. It allows flying up to 21 KUDO enclosures in a variable-curvature vertical line source array with an inter-element flexibility from 0° to 10°. The rigging system has also been designed to configure KUDO as a horizontal constant-curvature line source array with fixed 10° inter-element angles.

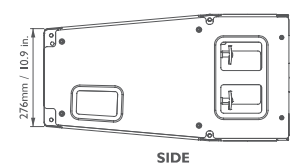
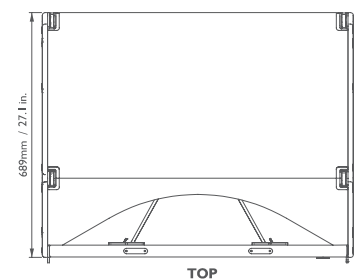
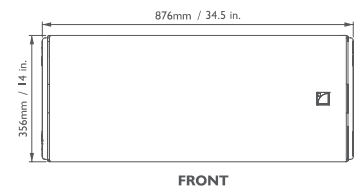
The KUDO system is driven by the dedicated LA8 amplified controller which ensures active system linearization, intelligent transducer protection, and optimization for two operating modes:

- The "FULL RANGE" mode for standalone KUDO applications.
- The "HIGH-PASS" mode for use with additional subwoofers or fill applications.

Both modes offer three specific presets to optimize the KUDO tonal balance according to the K-LOUVER® settings (50°, 80° or 110°). The performance of KUDO depends on the choice of electronic preset and physical configuration.



Usable bandwidth (-10dB)	35 Hz - 20 kHz ([KUDO50_25] preset)
Nominal directivity (-6dB)	Horizontal: 50° or 110° symmetric 25°/55° or 55°/25° asymmetric Vertical: Defined by the array size and curvature
Maximum SPL¹	140 dB ([KUDO50_40] preset)
RMS handling capacity	LF: 2 x 450 W MF: 312 W HF: 75 W
Components	LF: 2 x 12" mounted in a bass-reflex enclosure MF: 4 x 5" high efficiency HF: 2 x 1.75" diaphragm compression drivers coupled to DOSC® waveguides Nominal impedance: LF = 2 x 8 ohms, MF = 8 ohms, HF = 8 ohms
Rigging²	Entirely captive, high-grade steel Vertical: Angles from 0° to 10° (1° steps), certified for up to 21 KUDO Horizontal: Fixed angles of 10°, certified for up to 6 KUDO per K-LIFT
Physical data	W x H/h x D: 876 x 356/276 x 689 mm / 34.5 x 14/10.9 x 27.1 inch Weight (net): 87 kg 191.8 lbs Connexions: 2 x 8-point PA-COM® sockets Material: 15, 18 and 30 mm Baltic Birch Plywood Finish: Grey Brown RAL 8019® Front: Polyester powder-coated steel grill, acoustically transparent Airtnet® fabric Rigging: Polyester powder-coated high-grade steel



¹ Peak level measured at 1m under free field conditions using 10 dB crest factor pink noise with specified preset and corresponding EQ settings.

² Installation safety limits are specified in SOUNDVISION software which is designed to help with L-ACOUSTICS® product implementation.