



K2

VARIABLE CURVATURE WST® ENCLOSURE



The **K2** is the full range element of a WST® line source with variable curvature and adjustable horizontal directivity. The K2 loudspeaker enclosure is based on a 3-way active design. It comprises 4 input sections: 2 LF and 1 MF at a nominal impedance of 8 ohms, and 1 HF at a nominal impedance of 16 ohms. It features two 12" speakers and four 6.5", all direct-radiating neodymium speakers mounted in a bass-reflex enclosure, and two 3" neodymium diaphragm compression drivers coupled to individual DOSC® waveguides and adjustable directivity fins. The transducers are implemented in a K-shape configuration. The cabinet is made of machined first grade Baltic birch plywood combined to die cast aluminum side panels to ensure maximum acoustical and mechanical integrity while reducing weight to the minimum. A four-point rigging system is integrated into the cabinet.

The K2 enclosure operates over the nominal frequency range of 35 Hz to 20 kHz. Its LF resources can be reinforced with the dedicated K1-SB extension and its bandwidth can be extended down to 25 Hz with the SB28 subwoofer. In the horizontal plane, the directivity is adjustable down to 300 Hz, with two symmetric settings (70° or 110°) and two asymmetric settings (90° as 35°/55° or 55°/35°).

The K2 rigging system allows vertical assembly of enclosures with various inter-element angles (up to 10°), constituting a line array with variable curvature. The combination of the coplanar symmetry and the DOSC® waveguide in the HF region ensure a perfect acoustic coupling between the elements of an array. The WST® (Wavefront Sculpture Technology) criteria are fulfilled, so that such an array can be qualified as a true line source. Any WST® line source provides a smooth tonal response and a coverage that is free of secondary lobes over the entire frequency range.

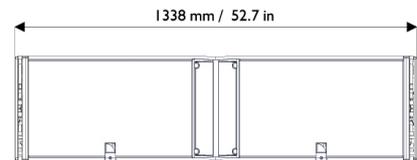
The K2 is driven and quad-amplified by the LA8 or LA4X controller with factory presets which ensure linearization, protection, and optimization for the loudspeaker system.



Usable bandwidth (-10dB)	35 Hz - 20 kHz		
Maximum SPL¹	145 dB ([K2_70] preset)		
Coverage angle (-6 dB)	Horizontal: 110°/70° symmetric ; 90° asymmetric (35°/55° or 55°/35°) Vertical: depends on the number of elements and array curvature		
Transducers	LF: 2 x 12", weather-resistant, bass-reflex MF: 4 x 6.5", weather-resistant, bass reflex HF: 2 x 3", diaphragm compression driver, DOSC® waveguide		
Nominal impedance	LF: 2 x 8 ohms	MF: 8 ohms	HF: 16 ohms
RMS power handling	LF: 2 x 450 W	MF: 320 W	HF: 160 W
Connectors	IN: 1 x 8-point PA-COM®		LINK: 1 x 8-point PA-COM®
Rigging components	Captive 4-point rigging system Inter-enclosure angles: 0.25, 1, 2, 3, 4, 5, 7.5 or 10°		

Physical data

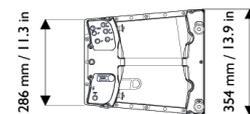
W/w x H x D	1338 x 354/286 x 400 mm	52.7 x 14/11.3 x 15.8 in
Weight (net)	56 kg	123.2 lb.
Cabinet	First grade Baltic birch plywood	
Side panels	Die cast aluminum	
Finish	Dark Grey brown Pantone® 426C	
Front	Steel grill with anti-corrosion coating Airnet® acoustically neutral fabric	
Protection rating	IP45	
Rigging components	High grade steel with anti-corrosion coating	



FRONT



TOP



SIDE

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