dV-DOSC

Compact WST® Enclosure

Description

The dV-DOSC Line Source element has an operating frequency bandwidth from 65 Hz to 20 kHz and this response can be lowered down to 35 Hz with the addition of the dV-SUB low frequency extension cabinet.

The dV-DOSC® system is a 2-way, bi-amplified design and is equipped with 2 x 8" speakers in a bass-reflex tuned enclosure. The HF section features a 3" diaphragm driver coupled to a DOSC® waveguide. The V-shaped coplanar transducer configuration generates a symmetric horizontal coverage of 120° without secondary lobes over the entire frequency range.

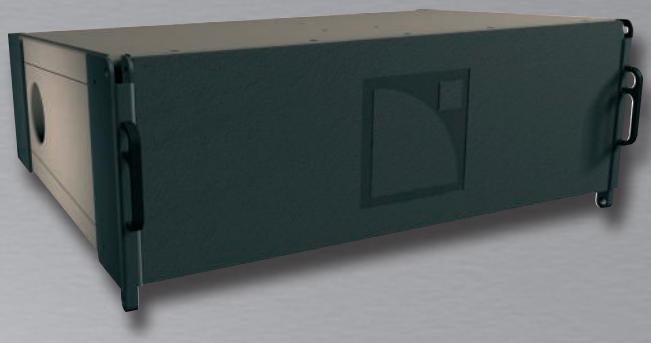
The combination of coplanar symmetry and DOSC® waveguide in the HF region allows the system to fulfil the 5 WST® criteria, thereby allowing the wavefront of a dV-DOSC line source to be curved up to a maximum of 7.5° for each element without breaking the inter-element acoustic coupling.

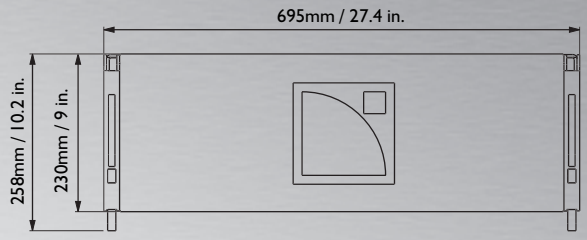
The dV-DOSC® enclosure heart is made of first grade Baltic birch plywood with top and bottom aluminum plates to ensure maximum acoustical and mechanical integrity. The 4-point rigging system allows flying up to 24 dV-DOSC®.

The dV-DOSC® system is driven by the dedicated LA8 amplified controller which ensures active system linearization, intelligent transducer protection, and optimization for three operating modes:

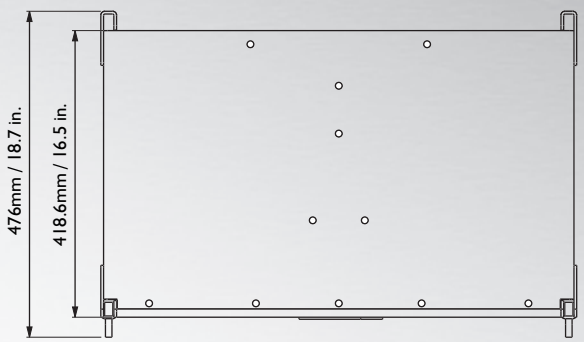
- The "FULL RANGE" mode designed for standalone dV-DOSC® Line Source arrays or distributed applications.
- The "HIGH-PASS" mode designed for applications with SB118 and SB28 subwoofer extensions.
- The "LOW EXTENSION" mode designed for applications with coupled dV-SUB LF extension.

The performance of dV-DOSC depends upon the choice of electronic preset and physical system configuration.





FRONT



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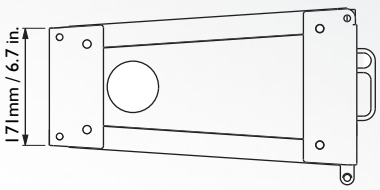

SIDE

Characteristics

Usable bandwidth (-10dB)

65 Hz - 20 kHz "Line Source" configuration

Nominal directivity (-6dB)

Horizontal:	120° Symmetric (1-10 kHz)
Vertical:	Dependent upon number of elements and line source curvature (Inter-element angles between 0 and 7.5°)

Maximum SPL[1] 137 dB ([DV_LO] preset)

Long term RMS handling capacity

LF:	380 W
HF:	66 W ([DV_LO] preset)

Components

LF:	2 x 8" weather-resistant (Impedance: 8 ohms)
HF:	1 x 3" diaphragm compression driver (Impedance: 8 ohms)

Rigging[2]

Steel, certified for:	24 dV-DOSC / 12 dV-DOSC+4 dV-SUB (single pick-point) 12 dV-DOSC / 9 dV-DOSC+3 dV-SUB (dual pick point with extension bar)
Angle increments:	0, 1, 2, 3, 3.75, 4.5, 5.5, 6.5, 7.5°

Physical data

W x H/h x D:	695 x 258/171 x 476 mm 27.4 x 10.2/6.7 x 18.7 in
Weight (net):	31.8 kg 70.1 lbs
Connectors:	2 x 4-pin Speakon®
Material:	Baltic birch plywood, aluminum top and bottom plates
Finish:	Grayish-brown, RAL 8019®
Front:	Polyester-coated steel grill, acoustically neutral foam
Rigging and Handles:	Polyester-coated 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 guidelines are specified in the SOUNDVISION software designed to help with L-ACOUSTICS® product implementation.

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