



# Technical Specification LDS400

## DESCRIPTION

**LDS400 represents a new loudspeaker technology based on the principles of the Homogeneous Line Source**

Each LDS 400 is equipped with four 7" drivers and four Planar-Magnetic (ribbon) Drivers.

The voice coil formers and cones of the 7" low-frequency drivers are fabricated from aluminium, while magnets are vented to optimise cooling. A special high impedance copper voice coil makes it possible to connect multiple drivers in parallel to produce a low-frequency impedance of 12 Ohms.

The four Planar-Magnetic (ribbon) Drivers used in the LDS 400 employ an innovative high-tech diaphragm material called Kaladex®, from Dupont.

The cabinet is of the closed type to preserve the impulse response. Each cabinet is made of heavily braced Swedish MDF and plywood, and is constructed with no parallel walls to avoid standing waves. The enclosure has separate chambers for high and low frequencies, which are both optimally damped, using two different materials.

The LDS 400 cabinet are equipped with four(x3) rigging points designed to simplify set-up and installation.

The LDS 400 is ideally suited as an alternative or compliment to the larger LDS 800 where vertical space is restricted .

Each LDS 400 can also be mounted separately either horizontally or vertically.



## SPECIFICATION DATA

<b>Operating Frequency Range (Hz)</b>		
60Hz to 18kHz		
<b>Sensitivity (dB SPL/2.83Vrms/1m)</b>		
LF	99	
HF	99	
<b>Transducers</b>		
LF	4 x 7" Cone Alu Drivers	
HF	4 x 8" Planar Magnetic Transducers	
<b>Impedance (Ohms)</b>		
LF	12	
HF	16	
<b>Power Handling (Watts)</b>		
	Programme	Peak
LF	300	900
HF	200	600
<b>Maximum SPL (dB, @ 1m)</b>		
	Continuous	Peak
	122.0	126.0
<b>Nominal Coverage Angle / -6 dB points (degrees)</b>		
Horizontal	120 (150Hz-12kHz)	
Vertical	Defined by configuration	
<b>Recommended Amplifier And Protection Settings</b>		
Amplification Gain	29dB (both channels)	
Peak Limiter	Threshold +8dBu	
<b>Recommended Crossover Settings (24dB/Oct Linkwitz-Riley)</b>		
Highpass	60-120Hz (depending on sub bass settings)	
Lowpass	300-600Hz	
<b>Input/link Connectors</b>		
	LF	HF
2x Speacon	+1/-1	+2/-2
<b>Dimensions</b>		
	inches	millimetres
Height	34.2	870
Width	13.7	348
Depth (LF)	12.0	305
Depth (HF)	9.6	245
<b>Weights</b>		
	pounds	kilogrammes
Net Weight	83.7	38
Shipping Weight	90.3	41

