

DSX

Dual 18" Reflex Loaded Subwoofer

Features

- Ultra-high output subwoofer with onboard Class D amplification. DSP and networking
- Two reflex-loaded 18" (450mm)/4" (100mm) drivers perfectly balance low frequency extension and impact
- Switched mode power supply with PFC (Power Factor Correction) and global mains voltage operation
- Forward or rear-facing operation
- Designed to meet IP24 environmental rating

Applications

- Outdoor festivals
- Arenas and theatres
- Concert halls
- Premium fixed installations



Capable of more than 146dB peak output at 1m half-space, the ground-stack DSX powered and networked subwoofer achieves extremely high output levels from such a compact enclosure.

The DSX's high output capability is achieved by combining state-of-the-art driver technology with an onboard Class D amplifier module which can deliver 6kW peak power. Its two reflex-loaded 18" (450mm)/4" (100mm) drivers perfectly balance low frequency extension and impact.

Forward output as well as rear rejection can be optimised to achieve coverage where required and cancellation elsewhere.

A flying version, the DSX-F can be flown alongside or at the top of MLA Compact arrays, as well as being ground-stacked. The ground-stack DSX can be upgraded to a DSX-F by an easy-to-fit accessory kit.

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Technical Specifications

Acoustical

TYPE	Dual 18" reflex loaded subwoofer.
FREQUENCY RESPONSE (1)	35Hz-150Hz \pm 3dB
MAXIMUM SPL	138dB continuous, 146dB peak (3)
Drivers	2x18" 100mm 7/4" voice coil, ultra-long excursion, high efficiency ferrite magnet.
Rated Power (2)	2400W AES, 9600W peak
Dispersion	Digitally controlled in an array.
Audio input	
CONNECTORS	Female XLR input, male XLR link output
ANALOGUE INPUT IMPEDANCE	20k Ω balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	6.15Vrms (+18dBu), over voltage protected
AES/EBU IMPEDANCE	110ohms balanced, Receive and transmit termination
Internal Processing	Single channel DSP, programmable via network 10 PEQ/shelving filters
	Up to 48dB/Oct HPF and LPF Up to 1 second of delay
	Limiters with amplifier output current monitoring

Network

CONNECTORS	IP68 rated 8-way, quick-release type
PROTOCOL	U-NET

Amplifier Module

TYPE	Single channel switch-mode, fixed frequency
PEAK OUTPUT POWER	6000W
AVERAGE EFFICIENCY	85%
COOLING	2 x temperature controlled internal fans 1 x low-speed internal blower
	1 x temperature controlled external fan
MAXIMUM AMBIENT TEMPERATURE	45°C (113°F) for full output

Power Supply

TYPE	Switch mode, fixed frequency with PFC
AC INPUT OPERATING RANGE	100-240V ~ AC, 50 - 60Hz
AC POWER FACTOR	> 0.95
NOMINAL POWER CONSUMPTION	900W
MAINS CONNECTOR	16A IEC309 (Ceeform) – IP44 rated (IP67 when mated with mains distribution equipment supplied with system)

General

ENCLOSURE	Extensively braced multi-laminate birch-ply.
FINISH	Textured black PU coating
PROTECTIVE GRILLE	Black HEX perforated steel
DSX FITTINGS	Two skids on base, with mating channels on top Four interlocking skids on each side
	Large bar handle on each side
	Four rear-mounted 100mm (4in) castors DSX transit cover, with integral plywood lid Weather protection cowl
DSX-F FITTINGS	Rear castors replaced by front-mounted wheelboard
In addition to DSX fittings, apart from where indicated	Four proprietary flying brackets and quick-release pins
	Side-mounted skids replaced by four interlocking rubber side cheeks. DSX-F transit cover, with integral plywood lid
IP Rating	IP 25
DIMENSIONS DSX	(W) 1060mm x (H) 595mm x (D) 834mm (1027mm with vent flap open)
	(W) 41.7in x (H) 23.4in x (D) 32.8in (40.4in)
DIMENSIONS DSX-F	(W) 1125mm x (H) 595mm x (D) 847mm (1027mm with vent flap open)
	(W) 44.3in x (H) 23.4in x (D) 33.5in (40.4in)
WEIGHT DSX	122.2kg (269lbs)
WEIGHT DSX-F	147.6kg (325lbs) ex. wheelboard
Accessories	Flying frame, including clinometer (DSX-F) Flying Pin (DSX-F)
	Mains distribution system
	Tour-grade network interconnects Merlin Controller/Unet Hub

Notes

- (1) Measured on-axis on ground plane (2p space) at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half-space at 1 metre with a tone burst signal.

Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

