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.
### Technical Specifications

#### Acoustical
- **TYPE**: Dual 18” reflex loaded subwoofer.
- **FREQUENCY RESPONSE (1)**: 35Hz-150Hz ± 3dB
- **MAXIMUM SPL**: 138dB continuous, 146dB peak (3)
- **Drivers**: 2x18” 100mm /4” voice coil, ultra-long excursion, high efficiency ferrite magnet.
- **Rated Power (2)**: 2400W AES, 9600W peak

#### Dispersion
- **Audio input CONNECTORS**: Female XLR input, male XLR link output
- **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
- **Dispersion**: Digitally controlled in an array.
- **Audio input CONNECTORS**: Female XLR input, male XLR link output
- **(Number):**

#### 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
- **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

#### 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.
- **DSX-F FITTINGS**: Rear castors replaced by front-mounted wheelboard.
- **In addition to DSX fittings, four proprietary flying brackets and quick-release pins apart from where indicated**: Side-mounted skids replaced by four interlocking rubber side cheeks, DSX-F transit cover, with integral plywood lid

#### Notes
1. Measured on-axis on ground plane (2p space) at 2 metres, then referred to 1 metre.
3. Measured in half-space at 1 metre with a tone burst signal.

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**Images**

DSX: Dual 18" Reflex Loaded Subwoofer

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**Table: Technical Specifications**

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<tr>
<th>Spec</th>
<th>Value</th>
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<tr>
<td><strong>Acoustical</strong></td>
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<tr>
<td><strong>Amplifier Module</strong></td>
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<tr>
<td>Peak output power</td>
<td>6000W</td>
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<td>Average efficiency</td>
<td>85%</td>
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<td>Cooling</td>
<td>2 x temperature controlled internal fans, 1 x low-speed internal blower</td>
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<td>Maximum ambient temperature</td>
<td>45°C (113°F) for full output</td>
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<td><strong>Power Supply</strong></td>
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<td>Mains connector</td>
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<tr>
<td>(IP67 when mated with mains distribution equipment supplied with system)</td>
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<td><strong>General</strong></td>
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<td>Flying frame, includingclinometer (DSX-F) — Flying Pin (DSX-F)</td>
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<td>Mains distribution system</td>
<td>Merlin Controller/Unet Hub</td>
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