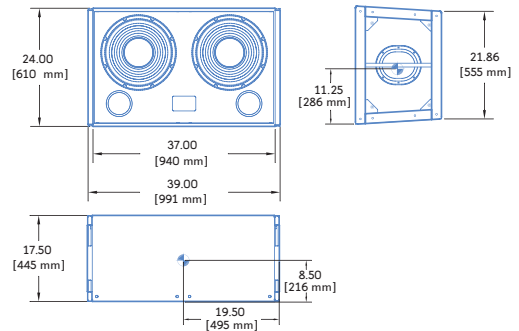




M2D™-SUB : Compact Subwoofer



- Dimensions** 39.00" w x 24.00" h x 17.50" d
(991 mm x 610 mm x 445 mm)
- Weight** 173 lbs (78.47 kg); shipping: 197 (89.36 kg)
- Enclosure** Multi-ply hardwood
- Finish** Black textured
- Protective Grille** Powder-coated hex stamped steel
- Rigging** Patented QuickFly® MRF-2D-Sub rigging frame with integral CamLinks™, rear connecting bars and captive quick-release pins

The M2D-Sub compact subwoofer has an operating frequency range of 28 Hz to 160 Hz with a maximum peak SPL of 138 dB. It is primarily intended as a companion sub-bass unit for integration into an M2D compact curvilinear array system for small-to-medium sized applications. However, it is perfectly suited to general use where powerful low frequency augmentation is desired. In combination with M2Ds, M2D-Sub extends the overall system power bandwidth and frequency response to 30 Hz. External dimensions are equivalent to two M2D cabinets. QuickFly rigging allows the M2D-Sub to be flown or ground-stacked in multiples or in combination with M2Ds.

The M2D-Sub is fitted with two 15-inch, 4-inch voice coil cone drivers incorporating lightweight neodymium magnet structures. Each driver is rated at 1200 AES watts (see

note 5 on back page) and is capable of a half-inch of linear excursion. TruPower® limiting technology aids driver protection, minimizes power compression, protects drivers from over-excursion under high peak power conditions and permits high constant output. The M2D-Sub is self-powered and includes an integral two-channel class AB/H complementary MOSFET power amplifier with 2250 watts total burst capability. The M2D-Sub's Intelligent AC™ power supply affords automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Phase-corrected active processing circuits help maintain excellent performance and reliability, and the high common-mode rejection of the laser-trimmed differential input permits long signal runs through a simple shielded twisted pair cable. The amplifier, control electronics and power supply are integrated into a field-replaceable module.

The trapezoidal, vented M2D-Sub enclosure is constructed of multi-ply hardwood and coated with a textured black finish. Integral metal grilles protect the drivers. A weather-protected version is available with custom rain hood to protect the electronics.

The optional QuickFly MG-2D multipurpose grid allows either flying or ground stacking various combinations of M2D and M2D-Sub. Up to 16 M2Ds (or the equivalent weight of M2D and M2D-Sub) may be flown with a 7:1 safety factor. Up to eight M2Ds, four M2D-Subs or six M2Ds and one M2D-Sub may be safely ground stacked.

Meyer Sound's RMS™ remote monitoring system is fitted as standard and provides comprehensive monitoring of system performance parameters over a Microsoft Windows® network.

FEATURES & BENEFITS

- Extremely high power-to-size ratio for flexible installation
- Exceptional fidelity and peak capability assure clean, high-impact lows
- QuickFly rigging system simplifies integration in flown or ground-stacked arrays
- Seamless integration with other M Series models

APPLICATIONS

- Concert halls, night clubs and houses of worship
- Theatrical sound reinforcement
- Portable and installed audio-visual systems

M2D-SUB SPECIFICATIONS

ACOUSTICAL¹		Operating Frequency Range² 28 Hz – 160 Hz Frequency Response³ 30 Hz – 140 Hz ±4 dB Phase Response 40 Hz – 100 Hz ±45° Maximum Peak SPL⁴ 138 dB Signal to Noise Ratio >110 dB
COVERAGE		Horizontal Coverage 360° Horizontal Vertical Coverage Varies, depending on array length and configuration
TRANSDUCERS		Low Frequency Two 15" cone drivers with neodymium magnets Nominal impedance: 4 Ω Voice coil size: 4" Power-handling capability: 1200 W (AES) ⁵
AUDIO INPUT		Type Differential, electronically balanced Maximum Common Mode Range ±15 V DC, clamped to earth for voltage transient protection Connectors Female XLR input with male XLR loop output or VEAM all-in-one connector (integrates AC, audio and network) Input Impedance 10 kΩ differential between pins 2 and 3 Wiring Pin 1: Chassis/earth through 220 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal – Case: Earth ground and chassis DC Blocking None on input; DC blocked through signal processing CMRR >50 dB, typically 80 dB (50 Hz – 500 Hz) RF Filter Common mode: 425 kHz; Differential mode: 142 kHz TIM Filter Integral to signal processing (<80 kHz) Nominal Input Sensitivity 0 dBV (1 V rms, 1.4 V pk) continuous is typically the onset of limiting for pink noise and music Input Level Audio source must be capable of producing a minimum of 20 dBV (10 V rms, 14 V pk) into 600 Ω in order to produce maximum peak SPL over the operating bandwidth of the loudspeaker
AMPLIFIERS		Type Two channel complementary MOSFET output stages (class AB/H) Output Power⁶ 2250 W THD, IM, TIM <.02 % Load Capacity 4 Ω each channel Cooling Forced air cooling, two fans (one ultrahigh-speed reserve fan)
AC POWER		Connector PowerCon or VEAM Automatic Voltage Selection Automatic, two ranges, each with high-low voltage tap (uninterrupted) Safety Agency Rated Operating Range 95 – 125 V AC; 208 – 235 V AC; 50/60 Hz Turn-on and Turn-off Points 85 – 134 V AC; 165 – 264 V AC; 50/60 Hz Current Draw: Idle Current 0.64 A rms (115 V AC); 0.32 A rms (230 V AC); 0.85 A rms (100 V AC) Max Long-Term Continuous Current (>10 sec) 8.8 A rms (115 V AC); 4.4 A rms (230 V AC); 10 A rms (100 V AC) Burst Current (<1 sec) 19 A rms (115 V AC); 9.5 A rms (230 V AC); 22 A rms (100 V AC) Ultimate Short-Term Peak Current Draw 39 A pk (115 V AC); 20 A pk (230 V AC); 45 A pk (100 V AC) Inrush Current 7 A pk (115 V AC and 230 V AC); 10 A pk (100 V AC)
RMS NETWORK		Equipped for two conductor twisted-pair network, reporting all operating parameters of amplifiers to system operator's host computer.

NOTES:

- The low-frequency power response of the system will increase according to the length of the array.
- Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
- Free field, measured with 1/3 octave frequency resolution at 4 meters.
- Measured with music at 1 meter.
- Power handling is measured under AES standard conditions: transducer driven continuously for two hours with a band-limited noise signal having a 6 dB peak-to-average ratio.
- Amplifier wattage rating is based on the maximum unclipped burst sine-wave rms voltage that the amplifier will produce into the nominal load impedance. Both channels: 67 V rms (95 V pk) into 4 ohms.



M2D-SUB - 04.114.030.01

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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, sub-bass system which may be deployed as either a flown or a ground-stacked unit. The transducers shall consist of two 15-inch cone drivers (4-inch voice coil) each rated to handle 1200 AES* watts.

The loudspeaker shall incorporate internal processing electronics and a two-channel amplifier. Each amplifier channel shall be class AB/H with complementary MOSFET output stages. Burst capability shall be 2250 watts total with nominal 4-ohm resistive load. Distortion (THD, IM, TIM) shall not exceed 0.02%. Protection circuits shall include TruPower limiting. The audio input shall be electronically balanced with a 10 kOhm impedance and accept a nominal 0 dBV (1 V rms) signal (20 dBV to produce maximum SPL). Connectors shall be XLR (A-3) type male and female or VEAM all-in-one. RF filtering

shall be provided, and CMRR shall be greater than 50 dB (50 – 500 Hz).

Performance specifications for a typical production unit shall be as follows, measured at 1/3 octave resolution: Operating frequency range shall be 28 Hz to 160 Hz. Phase response shall be ±45° from 40 Hz to 100 Hz. Maximum SPL shall be 138 dB at 1 meter.

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100 V, 110 V or 230 V AC line current at 50 Hz or 60 Hz. UL and CE operating voltage ranges shall be 95 to 125 V AC and 208 to 235 V AC. Current draw during burst shall be 19 A at 115 V AC and 9.5 A at 230 V AC. Current inrush during soft turn-on shall not exceed

7 A at 115 V AC. AC power connectors shall be PowerCon or VEAM.

The loudspeaker system shall incorporate the electronics module for Meyer Sound's RMS remote monitoring system.

All loudspeaker components shall be mounted in a multi-ply hardwood enclosure with a black textured finish. Dimensions shall be 39.00" wide x 24.00" high x 17.50" deep (991 mm x 612 mm x 445 mm). Weight shall be 173 lbs (78.47 kg).

The loudspeaker shall be the Meyer Sound M2D-Sub.

*Driven continuously for two hours with band-limited noise signal having a 6 dB peak-average ratio.

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