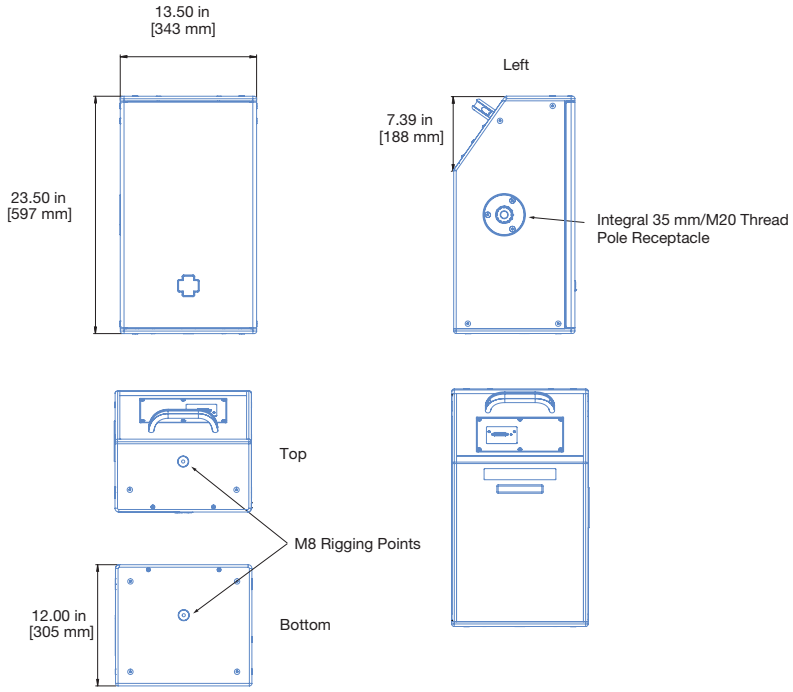
USW-112P Compact Narrow Subwoofer



The USW-112P compact narrow subwoofer further extends the USW family. With its great power-to-size ratio, it provides big bass sound for very tight spaces. Its compact rectangular enclosure and slanted connector panel enables flush-mounting of the cabinet against wall surfaces, reducing required installation depth to 12 inches, including connectors.

The USW-112P is ideal for installations requiring high performance and versatility along with an appealing, discreet aesthetic appearance. Designed to be the ideal companion to Meyer Sound's ULTRA-X20, it also complements the low frequencies in other Meyer Sound loudspeakers, such as the UP-4slim and those in the UPM family.

The USW-112P has an operating frequency range of 35–140 Hz with a linear peak SPL of 123 dB, measured in half-space at 4 m and referred to 1 m using M-noise[4]. The bass reflex cabinet employs a low-velocity port based on the Meyer Sound USW-210P subwoofer design for high efficiency and low port distortion.

The cabinet houses an open-loop, Class-D power amplifier with signal processing including correction filters for phase and frequency response, and driver protection circuitry.

The Intelligent AC™ power supply provides automatic voltage selection, EMI filtering, soft current turn-on and surge suppression for the USW-112P.

The optional RMS™ remote monitoring system module provides comprehensive, real-time information about loudspeaker parameters from a Mac® or Windows®-based computer running Compass® control software via the RMServer™ interface. Optional XLR 5-pin connectors allow composite cables to carry both balanced audio and RMS signals.

Meyer Sound constructs the USW-112P cabinet from premium birch plywood coated with a durable slightly textured black finish and includes a powder-coated, round-perforated steel grille to protect the drivers. Weather protection and custom color finishes for specific cosmetic requirements are available options.

With its versatile shape, the USW-112P can be placed on the ground in either horizontal or vertical positions to accommodate installation requirements.

The USW-112P comes standard with M8 mounting points at the top and bottom for use with the optional U-bracket that enables wall, ceiling, or truss mounting. It also features an integral 35 mm pole mount receptacle with M20 threads for added stability.

FEATURES AND BENEFITS

- High power-to-size ratio
- Versatile design, as it accommodates either vertical or horizontal placement
- Discreet appearance and form factor that fits into tight architectural spaces at only 12 inches deep including connectors
- Clean and low distortion output due to its proprietary high excursion driver and low air velocity port

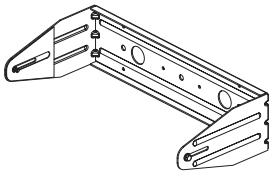
APPLICATIONS

- Multi-purpose Audio/Visual
- Corporate rental
- Houses of worship
- Conference rooms
- High-end private installations
- Retail spaces
- Theater

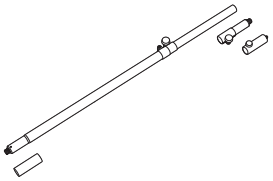
ACCESSORIES AND ASSOCIATED PRODUCTS

MUB-USW-112 U-Bracket: The MUB-USW-112 U-Bracket allows a single USW-112P loudspeaker to be mounted to a wall (in either vertical or horizontal orientations), to the ceiling or onto the floor. The kit includes two M8 bolts/washers and two M8 knobs/washers.

MPK-POLE-35MM/M20 Adjustable Pole Mount: Adjustable length 927–1524 mm (36.5–60 in) pole with assisted lift. Lower shaft fits 35 mm cups or use the removable M20 threaded lug for added stability. Additional 35 mm to 38 mm (1.5 in) adapter included. Upper shaft includes a PAS-M8 adapter sleeve to fit loudspeakers with M8 rig nuts and a PAS-M20 Adapter Sleeve to fit loudspeakers with 35 mm and M20 internal pole mounts onto 35 mm speaker stands.



MUB-USW-112P U-Bracket



MPK-POLE 35MM M20 Pole Kit

SPECIFICATIONS

ACOUSTICAL[1]	
Operating Frequency Range[2]	35 Hz – 140 Hz
Frequency Response[3]	36 Hz – 125 Hz ± 4 dB
Phase Response	45 Hz – 120 Hz ±30°
Linear Peak SPL[4]	**123 dB with > 10.5 dB crest factor (M-noise)**, 123 dB (Pink Noise), 125 dB (B-noise)
TRANSDUCER	
Low Frequency	One 12-inch cone driver; 3 Ω nominal impedance
AUDIO INPUT	
Type	Differential, electronically balanced
Maximum Common Mode Range	±15 V DC, clamped to earth for voltage transient protection
Connectors	XLR 3-pin female input with male loop output; optional XLR 5-pin connector to accommodate both balanced audio and RMS signals; XLR TOP connectors on weather-protected units only.
Input Impedance	10 kΩ differential between pins 2 and 3
Wiring[5]	Pin 1: Chassis/earth through 1 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal – Pin 4: RMS (polarity insensitive) Pin 5: RMS (polarity insensitive) Case: Earth ground and chassis
Nominal Input Sensitivity	0 dBV (1.0 V rms) continuous is typically the onset of limiting for noise and music
Input Level	Audio source must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker.
AMPLIFIER	
Type	Open-loop, Class-D
Total Output Power[6]	1200 W peak
THD, IM, TIM	< 0.02%
Cooling	Convection
AC POWER	
Connector	powerCON 20 input with loop output; powerCON TRUE1 TOP with loop output on weather-protected units only.
Automatic Voltage Selection	90–265 V AC, 50–60 Hz
Safety Rated Voltage Range	100–240 V AC, 50–60 Hz
Turn-on and Turn-off Points	90 V AC turn-on, no turn-off; internal fuse protection above 265 V AC
CURRENT DRAW	
Idle Current	0.23 A rms (115 V AC); 0.18 A rms (230 V AC); 0.25 A rms (100 V AC)
Maximum Long-Term Continuous Current (>10 sec)	1.2 A rms (115 V AC); 0.7 A rms (230 V AC); 1.4 A rms (100 V AC)
Burst Current (<1 sec)[7]	3.6 A rms (115 V AC); 1.8 A rms (230 V AC); 4.1 A rms (100 V AC)
Maximum Instantaneous Peak Current	8.9 A peak (115 V AC); 4.5 A peak (230 V AC); 10.3 A peak (100 V AC)
Inrush Current	< 20 A peak
RMS NETWORK (OPTIONAL)	
	Two-conductor twisted-pair network that reports all operating parameters of amplifiers to system operator's host computer.

SPECIFICATIONS, CONT'D.

PHYSICAL	
Dimensions	W: 13.5 in (343 mm) x H: 23.5 in (597 mm) x D: 12 in (305 mm)
Weight	45 lb (20 kg)
Enclosure	Premium multi-ply birch with slightly textured black finish
Protective Grille	Powder-coated, round-perforated steel
Rigging	Two integrated M8 threaded points; 35 mm Pole Mount with M20 thread; optional U-bracket for wall, ceiling, or truss mounting

NOTES

1. Loudspeaker system predictions for coverage and SPL are available in Meyer Sound's MAPP System Design Tool.
2. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
3. Measured in half-space with 1/3 octave frequency resolution at 4 m.
4. **Linear Peak SPL** is measured in half-space at 4 m referred to 1 m. Loudspeaker SPL compression measured with M-noise at the onset of limiting, 2-hour duration, and 50 °C ambient temperature is < 2 dB.

   M-noise is a full bandwidth (10 Hz–22.5 kHz) test signal developed by Meyer Sound to better measure the loudspeaker's music performance. It has a constant instantaneous peak level in octave bands, a crest factor that increases with frequency, and a full bandwidth Peak to RMS ratio of 18 dB. The presence of a greater-than (>) symbol with regard to crest factor indicates it may be higher depending on EQ and boundary loading.

   Pink noise is a full bandwidth test signal with Peak to RMS ratio of 12.5 dB.

   B-noise is a Meyer Sound test signal used to ensure measurements reflect system behavior when reproducing the most common input spectrum, and to verify there is still headroom over pink noise.
5. Pins 4 and 5 (RMS) only included with XLR 5-pin connector that accommodates both balanced audio and RMS signals.
6. Peak power based on the maximum unclipped peak voltage the amplifier will produce into the nominal load impedance.
7. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not cause the loudspeaker's voltage to drop below the specified operating range.

ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be a self-powered, sub-bass system. The transducer shall consist of one 12-inch cone driver.

The loudspeaker system shall incorporate internal processing electronics and an open-loop, class-D amplifier. Processing functions shall include driver protection, and frequency and phase correction. Peak output power shall be 1200 W total with 3 Ω nominal impedance. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows: operating frequency range shall be 35 Hz – 140 Hz; phase response shall be 45 Hz – 120 Hz ±30°. Linear peak SPL shall be 123 dB with > 10.5 dB crest factor, measured with M-noise, half-space at 4 m referred to 1 m.

The audio input shall be electronically balanced with a 10 kΩ impedance and shall accept a nominal 0 dBV (1 V rms) signal. The connector shall be a XLR 3-pin female with male loop.

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100, 115 or 230 V AC line current at 50 or 60 Hz. UL and CE operating voltage range shall be 100–240 V AC. Maximum peak current draw during burst shall be 3.6 A rms (115 V AC), 1.8 A rms (230 V AC), and 4.1 A rms (100 V AC). Current inrush during soft turn-on shall not exceed 20 A at 115 V AC. The AC power connector shall be powerCON.

The loudspeaker system shall provide facilities for installing Meyer Sound's optional RMS remote monitoring system.

All loudspeaker components shall be mounted in an acoustically vented trapezoidal enclosure constructed of premium multi-ply birch with a slightly textured black finish. The front protective grille shall be powder-coated, round-perforated steel. Dimensions shall be W: 13.5 in (343 mm) x H: 23.5 in (597 mm) x D: 12 in (305 mm).

Weight shall be 45 lb (20 kg).

The model shall be the Meyer Sound USW-112P.

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