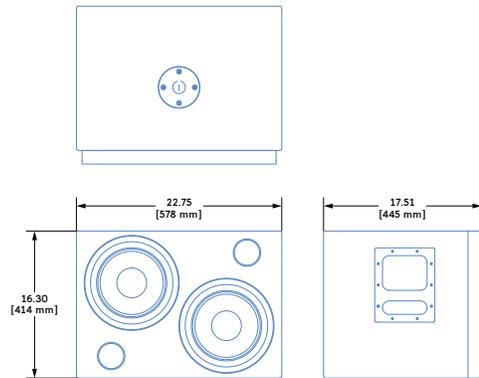


UMS-1XP UltraCompact Subwoofer



- Dimensions** 22.75" w x 16.30" h x 17.51" d
(578 mm x 414 mm x 445 mm)
- Weight** 58 lbs (26.3 kg)
- Enclosure** Premium birch plywood
- Finish** Black textured
- Protective Grille** Powder-coated, hex-stamped steel with black mesh screen
- Rigging** 1 3/8" (35 mm) pole-mount receptacle on cabinet top

The externally powered UMS-1XP, with IntelligentDC technology, is an extremely compact subwoofer that provides powerful low-frequency extension. The UMS-1XP offers the same 127 dB peak SPL output and 25 Hz to 160 Hz operating range as the UMS-1P but with the added flexibility of external DC power and lengthy cable runs without AC conduits. The UMS-1XP is a logical companion to any of Meyer Sound's externally powered loudspeakers. For installations requiring even greater low-frequency headroom, the UMS-1XP can be deployed as multiple, groundstacked units.

A tuned, bass-reflex enclosure houses the UMS-1XP's two 10-inch cone drivers. The drivers are powered by two channels of class D amplification yielding a total burst power output of 450 watts. Each driver channel includes a limiter that prevents overexcursion and regulates voice coil temperatures, ensuring smooth limiting characteristics and

high output levels across the subwoofer's entire frequency range.

With IntelligentDC technology, the UMS-1XP receives DC power and balanced audio from a single loudspeaker connector, available as Phoenix™ 5-pin male, sealed SwitchCraft® EN3™ 5-pin male, or sealed ECO-M 7-pin male. Powering the unit from an external source eliminates the need for wiring conduits while still preserving the advantages of self-powered systems. The UMS-1XP's amplifier and signal-processing circuits store DC power and tolerate voltage drops, thereby accommodating light-gauge cables and lengthy cable runs.

The UMS-1XP requires an external MPS-488HP IntelligentDC power supply. The single-space 19-inch rack unit distributes DC power and balanced audio to up to eight UMS-1XP subwoofers, or other Meyer Sound IntelligentDC loudspeakers. Composite multiconductor cables, such as Belden® 1502 or equivalent, can

deliver both DC power and balanced audio to loudspeakers at cable lengths up to 150 feet with just 1 dB of loss in peak SPL using 18 AWG wire. Longer cable runs are possible with heavier gauges. Meyer Sound's RMS remote monitoring system is optionally available for the MPS-488HP.

The UMS-1XP's durable enclosure is constructed of premium birch plywood and coated with a black-textured, hard-shell finish. A powder-coated, hex-stamped grille with black mesh protects the unit's drivers. The cabinet top includes a 1 3/8-inch receptacle for pole-mounting the UPJ-1XP, UPJunior-XP, UPM-1XP, or UPM-1XP with the optional MPS-UMS stand. The UMS-1XP SM model is available from the factory with threaded end plates and the UMS-SM U-bracket for single-mount configurations. Custom color finishes are also available for installations with specific cosmetic requirements.

FEATURES & BENEFITS

- IntelligentDC technology affords the flexibility of lengthy cable runs without conduits
- Extremely compact cabinet with powerful, extended low-frequency response
- Linear driver excursion ensures exceptionally clean bass responses with very low distortion
- Ideal companion to other powered Meyer Sound loudspeakers

APPLICATIONS

- Theatrical sound reinforcement
- Portable and installed AV systems
- Houses of worship
- Mix suites

UMS-1XP SPECIFICATIONS

ACOUSTICAL	
Operating Frequency Range ¹	25 Hz – 160 Hz
Frequency Response ²	29 Hz – 135 Hz ±4 dB
Phase Response	41 Hz – 155 Hz ±30 degrees
Maximum Peak SPL ³	127 dB
Dynamic Range	>110 dB
COVERAGE	
	360 degrees for single unit; for multiple units, varies with configuration
TRANSDUCERS	
Low Frequency	Two 10-inch cone drivers
CONNECTOR OPTIONS	
	Phoenix SwitchCraft ECO-M
Wiring:	5-Pin Male EN3 5-Pin Male 7-Pin Male ⁴
DC Power (–)	Pin 1 Pin 1 Pin 1
DC Power (+)	Pin 2 Pin 2 Pin 2
Audio Shield, Chassis/Earth ⁵	Pin 3 Pin 3 Pin 5 (Shield)
Audio (–)	Pin 4 Pin 4 Pin 5
Audio (+)	Pin 5 Pin 5 Pin 6
AUDIO INPUT	
Type	Differential, electronically balanced
Maximum Common Mode Range	±15 V DC, clamped to earth for voltage transient protection
Input Impedance	10 kOhm differential between positive (+) and negative (–) audio pins
DC Blocking	Differential DC blocking up to the maximum common mode voltage
CMRR	>50 dB, typically 80 dB (50 Hz – 500 Hz)
RF Filter	Common mode 425 kHz; Differential mode: 142 kHz
TIM Filter	<80 kHz, integral to signal processing
Nominal Input Sensitivity	–4.0 dBV (0.6 V rms) continuous average is typically the onset of limiting for noise and music
Input Level	Audio source must be capable of producing +20 dBV (10 V rms, 14 V peak) into 600 ohms to produce the maximum peak SPL over the operating bandwidth of the loudspeaker
AMPLIFIER	
Type	2-channel, class D
Output Power ⁶	450 W total
THD, IM, TIM	<.02%
Load	4 ohms both channels
Cooling	Convection
DC POWER	
Voltage Requirement	48 V DC
<i>Meyer Sound Power Supply Required</i> For information and specifications on the MPS-488HP IntelligentDC external power supply, refer to its datasheet.	

NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Free field, measured with 1/3-octave frequency resolution at 4 meters.
3. Half-space loading, measured with music, referred to 1 meter.
4. Pins 3 and 4 not used in ECO-M connector.
5. Audio shield, chassis/earth through 1 kOhm, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies.
6. Amplifier wattage rating based on the maximum unclipped burst sine wave rms voltage the amplifier will produce for at least 0.5 seconds into the nominal load impedance: each channel, 30 V rms (42 V peak).



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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, sub-bass system able to be deployed singly or as multiple, groundstacked units. Its transducers shall include two 10-inch cone drivers.

The loudspeaker shall incorporate internal processing and a 2-channel, class D amplifier, one channel for each driver. Processing functions shall include equalization, phase correction, signal division, and driver protection. Amplifier burst output power shall be 450 W total. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range, 25 Hz to 160 Hz; phase

response, 41 Hz to 155 Hz ±30 degrees; maximum peak SPL, 127 dB at 1 meter with half-space loading. Coverage shall be 360 degrees for single units and shall vary with multiple units depending on the configuration.

The loudspeaker shall receive DC power and balanced audio from a single input connector, available as Phoenix 5-pin male, sealed EN3 5-pin male, or sealed ECO-M 7-pin male (two pins for DC power, three pins for balanced audio). The audio input shall be electronically balanced with a 10 kOhm impedance and accept a nominal –4.0 dBV (0.6 V rms) input signal. DC blocking and RF filtering shall be provided, and CMRR shall be greater than 50 dB and typically 80 dB (50 Hz to 500 Hz). Power requirements for the loudspeaker shall be a

Meyer Sound MPS-488HP IntelligentDC power supply capable of delivering 48 V DC.

All components shall be mounted in an acoustically vented rectangular enclosure constructed of premium birch plywood with a black textured finish. The protective grille shall be powder-coated, hex-stamped steel with black mesh screen. A 1 3/8-inch receptacle for pole-mount the UPJ-1XP, UPJunior-XP, UPM-1XP, or UPM-2XP shall be fitted as standard. Dimensions shall be 22.75 inches wide x 16.30 inches high x 17.51 inches deep (578 mm x 414 mm x 445 mm). Weight shall be 58 lbs (26.3 kg).

The loudspeaker shall be the Meyer Sound UMS-1XP.