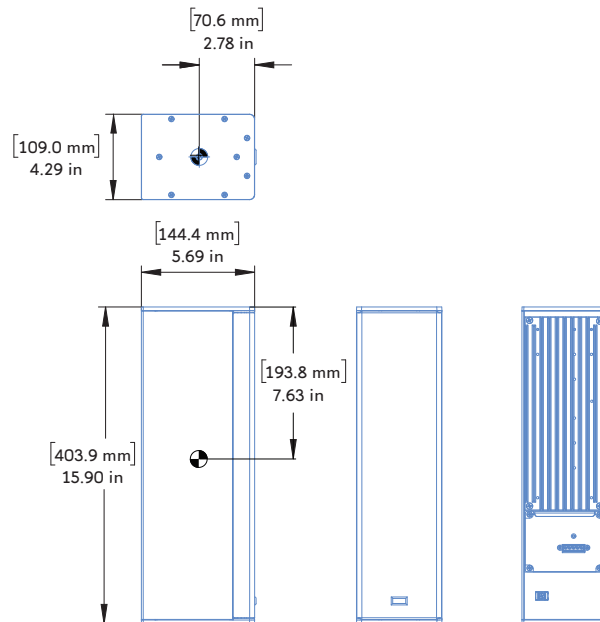


UP-4slim: Compact Installation Loudspeaker



DIMENSIONS	15.90 in H x 4.29 in W x 5.69 in D (404 mm x 109 mm x 145 mm)
WEIGHT	14 lb (6.35 kg)
ENCLOSURE	Aluminum, black finish slightly textured
PROTECTIVE GRILLE	Powder-coated, stamped steel with black mesh screen
RIGGING	Top and bottom aluminum plates with M8 threads

The UP-4slim ultra-compact installation loudspeaker is ideally suited for applications requiring a small, slim, aesthetically pleasing cabinet that delivers high sound pressure levels with low distortion, and uniform coverage. The UP-4slim offers this exceptional audio performance in a compact self-powered package with a remote power supply. As a standalone loudspeaker, the UP-4slim is appropriate for vocal reinforcement, front-fill and under balcony fill applications. The UP-4slim can be optionally paired with a subwoofer to create a full-range system.

The UP-4slim is engineered to the same award-winning standards as all Meyer Sound IntelligentDC loudspeakers. Its on-board amplification and sophisticated signal processing provide the flat frequency and phase responses for which Meyer Sound loudspeakers are known. Its drivers are designed and manufactured at the Meyer Sound factory in Berkeley, California.

The UP-4slim's high-frequency section includes a 1-in metal dome tweeter on a constant-directivity, high-frequency horn. The low/mid-frequency section includes two 4-in cone transducers that work in parallel at low frequencies to deliver a combined acoustic output:

One of the drivers rolls off at higher frequencies to maintain constant directivity in the crossover region.

The UP-4slim has very low distortion, boasts a wide operating frequency range (65 Hz – 18 kHz), and a conservatively rated linear peak SPL (112 dB²). With a smooth, consistent 100° coverage, fewer loudspeakers can cover a larger area, reducing system cost while maintaining the highest sound quality. The UP-4slim is powered by an external MPS-488HP IntelligentDC power supply. The 1 RU unit distributes DC power and balanced audio to up to eight UP-4slim loudspeakers or other Meyer Sound IntelligentDC loudspeakers and can also connect to Meyer Sound's RMS remote monitoring system. Composite multi-conductor cables (e.g., Belden® 1502) can deliver both DC power and balanced audio from a single Phoenix™ 5-pin male connector.

Options include weather protection and custom color finishes for installations with specific cosmetic requirements. Mounting options include a U-bracket, cradle-style yoke, and pole-mount adapter. The top and bottom rigging plates comprise M8 threads. The grille frame is made from powder-coated, stamped steel, and the box-shaped vented enclosure is aluminum.

FEATURES AND BENEFITS

- Extraordinary fidelity and power in a compact, sleek aluminum package
- Low distortion drivers and a metal dome tweeter deliver a smooth high-frequency response
- Wide, symmetrical coverage pattern creates a broad listening area
- Unique crossover design eliminates comb filtering and yields a consistent midrange response
- Exceptional SPL-to-size ratio
- Supports long cable runs with light-gauge cables

APPLICATIONS

- Front-fill and under-balcony fill coverage
- Theatrical sound reinforcement and special effects
- Installed AV systems
- Compact voice reinforcement systems
- Constellation Acoustic Systems

ACCESSORIES

MUB-UP-4slim U-Bracket

U-shaped mounting bracket allows mounting the UP-4slim on a ceiling, wall or floor at any angle.

MYA-UP-4slim Yoke

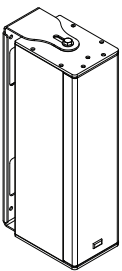
Suspends one UP-4slim from a single point. Can also be used to pole-mount one UP-4slim on top of subwoofer (pole-mount adapter sold separately).

MSM Stand Adapter

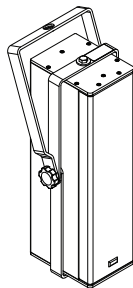
UP4 Stand adapter for 1 3/8-in (35 mm) diameter pole.

MPS-488HPp Power Supply

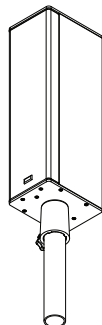
The MPS-488HPp IntelligentDC power supply delivers power and balanced audio to up to eight UP-4slim units.



MUB-UP-4slim Bracket



MYA-UP-4slim Yoke



MSM Stand Adapter



MPS-488HPp Power Supply

SPECIFICATIONS

ACOUSTICAL	
Operating Frequency Range ¹	65 Hz – 18 kHz
Frequency Response ²	70 Hz – 18 kHz ±4 dB
Linear Peak SPL ³	110 dB (Pink Noise), 113 dB (B-Noise), 112 dB (M-Noise)
Phase Response	102 Hz – 18 kHz ±45°
COVERAGE	
Horizontal	100°
Vertical	100°
TRANSDUCERS	
Low Frequency	Two 4-in cone drivers
Crossover ⁴	1.5 kHz
High Frequency	One 1-in metal dome tweeter
CONNECTOR	
Connector Type	Phoenix 5-pin male
Connector Pinout	Pin 1: DC Power (-) Pin 2: DC Power (+) Pin 3: Audio Shield, Chassis/Earth ⁵ Pin 4: Audio (-) Pin 5: Audio (+)
AUDIO INPUT	
Type	Differential, electronically balanced
Maximum Common Mode Range	±5 V DC
Input Impedance	10 k Ω 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	Integral to signal processing (<80 kHz)
Nominal Input Sensitivity ⁶	-2.0 dBV (0.8 V rms, 1.4 V peak)
Minimum Input Level ⁷	+16 dBV into 600 Ω
AMPLIFIER	
Type	3-channel (class D) with crossover
Output Power ⁸	500 W total
Load	4 Ω each low channel; 8 Ω high channel
Cooling	Convection
DC VOLTAGE	
Voltage Requirement	Meyer Sound MPS-488HP external power supply (required)
Safety Agency Rated Operating Range ⁹	48 V DC
DC CURRENT DRAW ¹⁰	
Idle	0.23 A average
Maximum Long-Term Continuous (>10 s)	1.00 A average
Maximum Instantaneous Peak	4.50 A peak

ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, full-range system; the transducers shall consist of two 4-in low-frequency cone drivers and one 1-in high-frequency metal dome tweeter. The loudspeaker system shall incorporate internal processing electronics and a three-channel amplifier, one channel for each driver. Processing functions shall include equalization, phase correction, signal division, and driver protection. The crossover point shall be 1.5 kHz. Amplifier channels shall be class D. Amplifier output power shall be 500 W total for all three channels. 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 shall be 85 Hz to 18 kHz; phase response shall be 102 Hz – 18 kHz $\pm 45^\circ$; linear peak SPL shall be 112 dB at 1 m, free field, measured with M-noise. The horizontal and vertical coverage shall be 100°.

The loudspeaker shall be equipped with a Phoenix 5-pin male connector (three pins for balanced audio and two

pins for DC power). The audio input shall be electronically balanced with a 10-kOhm impedance and accept a nominal -2.0 dBV (0.80 V rms, 1.12 V peak) input signal.

Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply capable of delivering 48 V DC. Maximum long-term continuous current draw for the loudspeaker (< 10 s) shall be 1.0 A average at 48 V.

All components shall be mounted in an acoustically vented box shaped enclosure constructed of aluminum. Top and bottom shall incorporate M8 threads. The front protective grille shall be powder-coated, stamped steel.

Dimensions for the loudspeaker shall be 15.90 in high x 4.29 in wide x 5.69 in deep (404 mm x 109 mm x 145 mm) without mounting bracket. Weight shall be 14 lb (6.35 kg).

The loudspeaker shall be the Meyer Sound UP-4slim.

NOTES

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics. W/P unit is sealed, range is 100 Hz – 18 kHz.
2. Measured free-field with pink noise at 1 m, 1/3-octave frequency resolution. W/P unit is sealed, response is 120 Hz – 17.5 kHz ± 4 dB.
3. Measured at 4 m, referred to 1 m.

Pink noise is an unfiltered, full range test signal with an average-to-peak 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 verify there is still headroom over pink noise.

M-noise is a full-range signal developed by Meyer Sound to better measure the loudspeaker's performance with music. It has a constant instantaneous peak level in octave bands, a crest factor that increases with frequency, and a full bandwidth peak-to-average ratio of 18 dB.

4. At this frequency, the tweeter and top low-frequency driver (closest to the tweeter) produce equal SPLs.
5. Audio shield, chassis/earth through 220 k Ω , 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies.
6. Continuous average is typically the onset of limiting for noise and music.
7. Minimum input level to produce the maximum peak SPL over the operating bandwidth of the loudspeaker.
8. Rating based on the maximum rms voltage the amplifier can produce from an unclipped burst sine wave into the nominal load impedance.
9. Tolerates voltage drops up to 30% due to long cable runs. Normal operating conditions with recommended cable gauge and length assures peak SPL remains within 2 dB of max SPL specification.
10. Current draw measured at 48 V DC.