The UPM-2P loudspeaker provides vocal range reinforcement as a small PA system or as a fill or delay loudspeaker in larger indoor or outdoor systems. A full-range system can be created with the addition of an optional subwoofer. The UPM-2P’s narrow beamwidth makes it ideally suited to applications where coverage must be restricted to defined areas, often to prevent unwanted reflections or bleed into microphones.

The UPM-2P high-frequency section comprises a 1-inch metal dome tweeter on a symmetrical constant-directivity high-frequency horn with 45-degree beamwidth. At lower frequencies, sophisticated phase-correction circuitry assures true point-source performance without the off-axis cancellation effects that plague customary dual-woofer designs. Two 5-inch low-frequency cone drivers are driven in parallel at low frequencies to take advantage of their combined acoustic output. To prevent destructive interference and comb filtering effects in the mid-band frequencies close to the crossover area, one of the drivers rolls off above 320 Hz.

Two channels of power amplification are provided, along with an active crossover, driver protection voltage limiters, and frequency and phase response alignment circuitry. A laser-trimmed differential input stage affords superior common-mode rejection to allow long signal runs through shielded twisted-pair cable. The standard UPM-2P is switchable between the 115 V AC and 230 V AC ranges. A 100 V AC version is also available. The UPM-2P’s integral power supply suppresses high-voltage transients, while two PowerCon AC connectors facilitate AC looping.

Mounting is via three 3/8”-16 or metric M10 threaded recessed nut plates. Optional U-bracket, yoke, and pole-mount hardware is available. The UPM-2P loudspeaker can be supplied with either the standard audio input module incorporating looping XLR connectors, or an alternate that adds attenuation and a polarity switch. The UPM-2P easily integrates with the optional RMS™ remote monitoring system network and software. RMS displays signal and power levels, driver status, limiter activity, and amplifier temperature on a remote Windows® computer.

Options include weather protection and finishes in custom colors for situations requiring specific cosmetics.

**DATASHEET**

**UPM-2P : Ultra-Compact Narrow Coverage Loudspeaker**

The UPM-2P is a remarkably compact, self-powered professional sound reinforcement loudspeaker system. It is ideally suited to applications requiring a relatively small and inconspicuous loudspeaker that also can provide high sound pressure levels, extremely low distortion, and uniform directional control.

**FEATURES & BENEFITS**

- Exceptional fidelity and power capability in an ultra-compact package
- Narrow, symmetrical pattern provides precise coverage control
- Unique crossover design eliminates combing for consistent midrange response
- Metal dome driver delivers exceptionally smooth high-frequency characteristic

**APPLICATIONS**

- Frontfill and under balcony
- Theatrical sound reinforcement
- Portable and installed audio-visual systems
- Effects for theatre
- Compact voice reinforcement systems

**Specifications:**

- **Dimensions:** 6.85” w x 18.00” h x 7.70” d (174 mm x 457 mm x 196 mm)
- **Weight:** 21 lbs (9.53 kg)
- **Enclosure:** Premium birch plywood
- **Finish:** Black textured
- **Protective Grille:** Powder-coated hex-stamped steel, foam covering
- **Rigging:** Three 3/8”-16 or metric M10 nut plates

<table>
<thead>
<tr>
<th>Dimensions</th>
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**Dimensions:** 6.85” w x 18.00” h x 7.70” d (174 mm x 457 mm x 196 mm)
The loudspeaker shall be a self-powered, full-range system. The transducers shall consist of two 5-inch diameter cone drivers and a 1-inch metal dome tweeter.

The loudspeaker system shall incorporate internal processing electronics and a two-channel amplifier. Processing functions shall include equalization, phase correction and signal division and driver protection for the high- and low-frequency sections. The crossover point shall be 2.3 kHz. Each amplifier shall perform EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100 V AC (100 V AC version available) and another with an attenuator and polarity reversal switch in the AC switch position). AC switch position) and 265 V AC (230 V AC variation). UL and CE operating voltage range shall be 115 V AC – 50 or 60 Hz. UL and CE operating voltage range shall be 115 V AC – 240 V AC. Current inrush during turn-on shall not exceed 18 A at 115 V AC.

The crossover point shall be 2.3 kHz. Each amplifier shall perform EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100 V AC (100 V AC version) and 110 or 230 V AC (115/230 version) line current at 50 or 60 Hz. UL and CE operating voltage range shall be 115 V AC – 240 V AC. Ultimate short-term peak current draw shall be 2.9 A at 115 V AC, 2 A at 230 V AC and 3.3 A at 100 V AC. Current inrush during turn-on shall not exceed 18 A at 115 V AC. Power connectors shall be PowerCon with loop-out. 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 treated ventalated trapezoidal enclosure constructed of premium birch plywood with a black textured finish. The front protective grille shall be hex-stamped steel covered by charcoal gray foam. Dimensions shall be 6.85" wide x 18" high x 7.70" deep (174 mm x 457 mm x 196 mm). Weight shall be 21 lbs (9.53 kg). Rigging shall be three 3/8"-16 or M10 nut plates.

The loudspeaker shall be the Meyer Sound UPM-2P.