

## Meyer UPM-1P Powered Speaker Ultra Compact Wide Coverage

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Rentex Product No. SPK1000



Mfr Part No. UPM-1P

The UPM-1P 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 can also provide high sound pressure levels, extremely low distortion, and uniform directional control.

The UPM-1P 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.

### Features

- Exceptional fidelity and power capability in an ultra-compact package
- Wide, symmetrical pattern covers broad listening areas
- Unique crossover design eliminates combing for consistent midrange response
- Metal dome driver delivers exceptionally smooth high-frequency characteristic

### Detailed Specifications

#### Audio Input:

<b>Type</b>	Differential, electronically balanced
<b>Max Common Mode Range</b>	$\pm 15$ V DC, clamped to earth for voltage transient protection
<b>Connectors</b>	Female XLR input with male XLR loop output
<b>Input Impedance</b>	10 k $\Omega$ differential between pins 2 and 3
<b>Wiring</b>	Pin 1: Chassis/earth through 220 k $\Omega$ , 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal - (optional polarity reversal switch) Case: Earth ground and chassis
<b>DC Blocking</b>	Differential DC blocking up to maximum common mode voltage
<b>CMRR</b>	>50 dB, typically 80 dB (50 Hz – 500 Hz)
<b>RF Filter</b>	Common mode: 425 kHz; Differential mode: 142 kHz
<b>TIM Filter</b>	<80 kHz, integral to signal processing
<b>Nominal Input Sensitivity</b>	0 dBV (1 V rms, 1.4 V pk) continuous average is typically the onset of limiting for pink noise and music
<b>Input Level</b>	Audio source must be capable of producing a min of +20 dBV (10 V rms, 14 V pk) into 600 $\Omega$ to produce maximum peak SPL over the operating bandwidth of the loudspeaker

#### Amplifiers:

<b>Type</b>	Complementary MOSFET output stages (class AB/bridged)
<b>Output Power</b>	350 W total
<b>THD, IM, TIM</b>	<.02 %
<b>Load Capacity</b>	4 $\Omega$ low channel, 8 $\Omega$ high channel
<b>Cooling</b>	Convection

#### Acoustical:

<b>Frequency Range</b>	75 Hz - 20 kHz (Operating)
<b>Frequency Response</b>	80 Hz - 16 kHz $\pm 4$ dB
<b>Phase Response</b>	300 Hz - 18 kHz $\pm 60^\circ$
<b>Maximum Peak SPL</b>	123 dB
<b>Dynamic Range</b>	>110 dB
<b>Coverage</b>	Horizontal: 100° Vertical: 100°
<b>Crossover</b>	1300 Hz

#### Transducers:

<b>Low Frequency</b>	Two 5" cone drivers Nominal impedance: 8 $\Omega$ Voice coil size: 1" Power-handling capability: 200 W (AES)6
<b>High Frequency</b>	One 1" metal dome tweeter Nominal impedance: 8 $\Omega$ Voice coil size: 1" Diaphragm size: 1" Power-handling capability: 20 W (AES)

#### AC Power:

<b>Connector</b>	PowerCon with looping output
<b>Voltage Selection</b>	External 115/230 V AC switch (100 V AC version available)
<b>Operating Voltage Ranges</b>	105 V AC - 130 V AC (115 V AC); 210 V AC - 260 V AC (230 V AC)