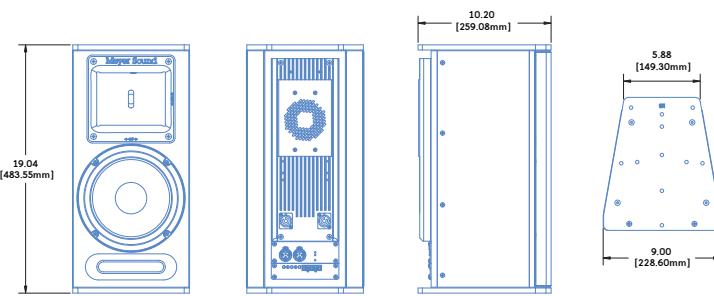




UPJUNIOR™ : UltraCompact Vario™ Loudspeaker



Dimensions 9.00" w x 19.04" h x 10.20" d
(228.60 mm x 483.55 mm x 259.08 mm)

Weight 28 lbs (12.7 kg)

Enclosure Premium birch plywood

Finish Black textured

Protective Grille Powder-coated hex-stamped steel, black mesh screen

Rigging Aluminum end plates for mounting/flying cabinets with QuickFly® and standard rigging options; metric M8 threaded points used for all UPJunior rigging

Meyer Sound's UPJunior ultracompact Vario loudspeaker brings the sonic signature, flexible rigging, and extraordinary power-to-size ratio of the award-winning UPJ-1P to an even more compact package suitable for a broad range of applications. The UPJunior combines the advantages of self-powered systems with the placement and arraying flexibility afforded by an 80° x 50° Vario rotatable horn and QuickFly® rigging.

Though remarkably compact and lightweight, the UPJunior delivers a robust peak power output of 126 dB SPL at 1 meter, making it suitable for use as either a single, primary loudspeaker or within multicabinet horizontal and vertical arrays. Applications include AV presentations, small- to medium-sized sound reinforcement systems, fill, delay, effects, and under-balcony coverage, as well as distributed systems.

The UPJunior was designed for flexibility. Whether oriented vertically or horizontally, its Vario horn can be easily rotated to obtain the optimum horizontal and vertical coverage in any situation. In size, weight, and output, the UPJunior integrates seamlessly with the UltraSeries™ UPM-1P/2P and UPJ-1P loudspeakers.

As a self-powered loudspeaker, the UPJunior incorporates a two-channel, class AB/bridged power amplifier and sophisticated control circuitry housed within the cabinet, dramatically simplifying setup and installation. The UPJunior's on-board amplifier delivers 300 watts of total burst power. The optional RMS™ remote monitoring system module allows comprehensive monitoring of all key system parameters from a Windows®-based computer.

The UPJunior's low-mid frequency section employs an 8-inch neodymium magnet cone driver, while the high-frequency

section utilizes an efficient 0.75-inch exit, 2-inch diaphragm compression driver. Both drivers are designed and manufactured by Meyer Sound in Berkeley, Calif.

The UPJunior is extraordinarily versatile in the number of ways it can be mounted, flown, and arrayed, allowing it to be used as either a main loudspeaker or fill loudspeaker, or even as a stage monitor. The UPJunior's cabinet includes end plates made of heavy-duty, high-strength, corrosion-resistant 6061-T6 aluminum, complete with threaded M8 attachment points for basic eyebolt rigging or third-party pole assemblies. QuickFly rigging options including the MAAM-UPJunior array adapter (also made from 6061-T6 aluminum), the MUB-UPJunior U-bracket, and the MYA-UPJunior mounting yoke assembly.

Other options include weather protection for fixed applications and custom color finishes for specific cosmetic requirements.

FEATURES & BENEFITS

- Exceptional fidelity and extended high frequency performance
- Outstanding power capability in a compact package
- Predictable and consistent performance ensures system design flexibility
- Vario horn provides versatile coverage options, whether loudspeakers are oriented horizontally or vertically

- Extraordinarily flat amplitude and phase response for tonal accuracy and precise imaging
- Constant-Q horn affords uniform response throughout the coverage area
- With QuickFly rigging can be mounted or flown as either a single cabinet or within arrays

APPLICATIONS

- Portable and installed audio-visual systems
- Theatrical sound reinforcement
- Front and under-balcony fill
- Stage monitoring (with optional MAAM-UPJunior array adapter)
- Conference centers, presentations, ballrooms, and houses of worship

UPJUNIOR SPECIFICATIONS

ACOUSTICAL	
Operating Frequency Range ¹	70 Hz – 20 kHz
Frequency Response ²	76 Hz – 18 kHz ±4 dB
Phase Response	250 Hz – 18 kHz ±45°
Maximum Peak SPL ³	126 dB
Dynamic Range	>10 dB
Coverage ⁴	80° x 50°
CROSSOVER⁵	
	3.5 kHz
TRANSDUCERS	
Low Frequency	One 8" cone driver with neodymium magnet Nominal impedance: 4 Ω Voice coil size: 1.5" Power-handling capability: 300 W (AES) ⁶
High Frequency ⁷	One 2" compression driver Nominal impedance: 12 Ω Voice coil size: 2" Diaphragm size: 2" Exit size: 0.75" Power-handling capability: 100 W (AES) ⁶
AUDIO INPUT	
Maximum Common Mode Range	Differential, electronically balanced ±15 V DC, clamped to earth for voltage transient protection
Connectors	Female XLR input with male XLR loop output
Input Impedance	10 kΩ differential between pins 2 and 3
Wiring	Pin 1: Chassis/earth through 220 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal – (optional polarity reversal switch) ⁸ Case: Earth ground and chassis
DC Blocking	Differential DC blocking up to maximum common mode voltage >50 dB, typically 80 dB (50–500 Hz)
CMRR	Common mode: 425 kHz; Differential mode: 142 kHz
RF Filter	<80 kHz, integral to signal processing
TIM Filter	0 dBV (1 V rms, 1.4 V peak) continuous average is typically the onset of limiting for noise and music
Nominal Input Sensitivity	Audio source must be capable of producing +20 dBV (10 V rms, 14 V peak) into 600 Ω to produce maximum peak SPL over the operating bandwidth of the loudspeaker
Input Level	
AMPLIFIER	
Type	Two-channel complementary MOSFET output stages (class AB/bridged)
Output Power ⁹	300 W total
THD, IM, TIM	<0.2%
Load Capacity	4 Ω low channel, 12 Ω high channel
Cooling	Forced air cooling over amplifier heatsink
AC POWER	
Connectors	PowerCon with looping output
Voltage Selection	Automatic
Safety Agency Rated Operating Range	100–240 V AC; 50/60 Hz
Turn-on and Turn-off Points ¹⁰	90–264 V AC; 50/60 Hz
Current Draw: ¹¹	
Idle Current	0.448 A rms (115 V AC); 0.285 A rms (230 V AC); 0.497 A rms (100 V AC)
Maximum Long-Term Continuous Current (>10 sec)	2.55 A rms (115 V AC); 1.55 A rms (230 V AC); 2.75 A rms (100 V AC)
Burst Current (<1 sec)	2.90 A rms (115 V AC); 1.70 A rms (230 V AC); 3.20 A rms (100 V AC)
Ultimate Short-Term Current	12.0 A peak (115 V AC); 9.0 A peak (230 V AC); 13.0 A peak (100 V AC)
Inrush Current	15.0 A peak (115 V AC); 13.0 A peak (230 V AC); 15.0 A peak (100 V AC)
RMS NETWORK (OPTIONAL)	Equipped with two-conductor twisted-pair network, reporting all amplifier operating parameters to system operator's host computer.

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. Measured with music referred to 1 meter.
4. The UPJunior horn can be rotated to provide an 80° x 50° coverage pattern in either the horizontal or vertical plane.
5. At this frequency, the transducers produce equal sound pressure levels.
6. Power handling is measured under AES standards: transducer driven continuously for two hours with band-limited noise signal having a 6 dB peak-average ratio.
7. High frequency driver is coupled to an 80° x 50° constant-directivity horn.
8. An optional input module is available that includes a polarity reversal switch and an attenuator (0–18 dB).
9. 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. Low and high channels 30 V rms (42 V peak).
10. No automatic turn-off voltages. Voltages above 265 V AC are fuse protected but may cause permanent damage to the power supply. Voltages below 90 V AC may result in intermittent operation.
11. Current draw for a single loudspeaker. Loop output not used.

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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, full-range system. The transducers shall consist of an 8-inch diameter cone driver and a 2-inch diaphragm compression driver on an 80° x 50° horn. The horn shall allow rotation to provide the wider coverage pattern in either the horizontal or vertical plane relative to the cabinet's vertical axis.

The loudspeaker system shall incorporate internal processing electronics and a two-channel amplifier. Processing functions shall include equalization, phase correction, signal division, and driver protection for the high- and low-frequency sections. The acoustical crossover point shall be 3.5 kHz. Each amplifier channel shall be class AB/bridged with complementary MOSFET output stages. Burst capability shall be 300 watts total into a nominal load of 4-ohms low channel and 12-ohms high channel. 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 70 Hz to 20 kHz. Phase response shall be ±45° from 250 Hz to 18 kHz. Maximum SPL shall be 126 dB at 1 meter. Coverage (-6 dB points) shall be 80° x 50°, horizontal or vertical dependent on horn orientation.

The audio input shall be electronically balanced with a 10 kΩ impedance and accept a nominal 0 dBV (1 V rms, 1.4 V peak) input signal. Connectors shall be XLR (A-3) type with male input and female loop-through output. RF filtering shall be provided, and CMRR shall be greater than 50 dB and typically 80 dB (50–500 Hz).

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100 V, 115 V or 230 V AC line current at 50 Hz or 60 Hz frequency. Current draw during burst (<1 sec) shall be 2.9 A at 115 V,

1.7 A at 230 V and 3.2 A at 100 V. Current inrush during soft turn-on shall not exceed 15 A at 115 V. The AC power connector shall be a locking connector with looping output.

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 birch plywood with a hard black textured finish. The front protective grille shall be powder-coated hex-stamped steel. Dimensions shall be 9.00" wide x 19.04" high x 10.20" deep (228.60 mm x 483.55 mm x 259.08 mm). Weight shall be 28 lbs (12.7 kg). Integral high-strength, 6061-T6 aluminum top plates with threaded M8 metric holes shall accommodate Meyer Sound proprietary rigging hardware and third-party accessories.

The loudspeaker shall be the Meyer Sound UPJunior.