UPL-1 *High Definition Reinforcement Loudspeaker*

FEATURES

- Self-powered
- 2A Two way bi-amplified
- Electronically corrected
- Individually factory-aligned
- Patented horn driver
- Modified Radial horn

Superior engineering for the art and science of sound.

Meyer Sound

The Meyer Sound UPL-1 is a self-contained, high-definition powered loudspeaker that is suitable for a wide variety of high-quality sound reinforcement applications. It is optimized to approximate a true point-source radiator within its coverage area, and features a frequency response of ±2 dB from 50 Hz to 18 kHz.

The UPL-1 comprises a 10-inch cone low-frequency driver and 1-inch high-frequency driver with 90° by 40° modified radial horn housed in a vented cabinet. An active crossover, optimized pole-zero response correction filters, loudspeaker element protection circuitry and dual power amplifiers are built directly into the enclosure.

Both UPL-1 drivers are of a proprietary design and are individually factory-tested for maximum linearity. The high-frequency horn driver is of an entirely new configuration, employing a titanium dome and fabric suspension in a patented, low distortion design (U.S. patent number 4,152,552). It is coupled to a modified radial horn that provides excellent directivity control with wide horizontal high-frequency coverage.

The UPL-1's power amplifiers utilize complementary power MOSFET output stages in a class AB configuration. Input sensitivity is switchable to either +4 dBu or -10 dBV.

UPL-1 SPECIFICATIONS

Acoustical (each loudspeaker)	**Frequency Response**[1]	±2 dB from 50 Hz to 18 kHz[2]
	Phase Response	-3 dB at 32 Hz and 20 kHz
	Maximum SPL	124 dB peak @ 1 meter
	Dynamic Range	> 100 dB
Coverage	**(-6 dB points)**	90° H; 40° V
Crossover		Optimized pole-zero filter combinations to complement transducer response and to achieve acoustical transparency and flat phase[3]
Transducers	**Low Frequency**	10" diameter MS-15 cone (2)
	High Frequency	1" titanium dome horn driver (1" voice coil)[4]
Audio Input	**Type**	10kΩ impedance, electronically balanced
	Connector	XLR (A-3) female
	Nominal Input Level	+4 dBu or -10 dBv, switchable
Amplifiers	**Type**	Complementary power MOSFET output stages
	Burst Capability (Low Frequency)	200 watts
	Burst Capability (High Frequency)	100 watts
	THD, IM, TIM	< .02 %
AC-Power		3-pin IEC 320 male inlet. Voltage selector switch for 100/120/220/240 VAC, 50 or 60 Hz (accepts voltages from 90 to 260 VAC), 175 W maximum.
Physical	**Dimensions**	14" W x 20 3/4" H x 14" D (+ 2 1/2" additional depth for amplifier chassis and 2" for grill with foam)
	Weight	70 lbs (32 kg)
	Finish	Black textured
	Protective Grill	Perforated metal screen, grey foam covering
	Rigging	3/8"-16 nut plates, top and bottom

Notes

1. Subject to room loading. Specified for 8 feet actual distance between UPL-1 cabinet and a single boundary surface, measured with one-third octave frequency resolution in fixed ISO bands.
2. Specified with grill removed. Response tolerance ±3 dB with grill screen and foam in place.
3. U.S. patent #5,185,801 (additional patent pending).
4. U.S. patent #4,152,552.

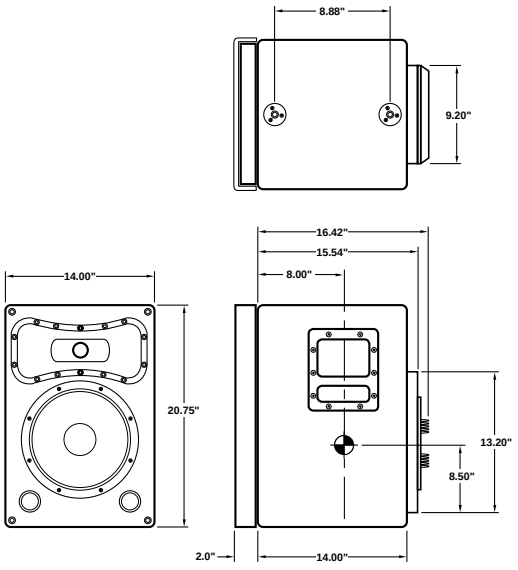
* Unless otherwise specified, all acoustical measurements are performed at 1 meter from front baffle on highfrequency horn axis. Acoustical decibels are specified re 20 μPa.

Meyer Sound Laboratories has devoted itself to designing, manufacturing, and refining components that deliver superb sonic reproduction. Every part of every component is designed and built to exacting specifications and undergoes rigorous, comprehensive testing in the laboratories.

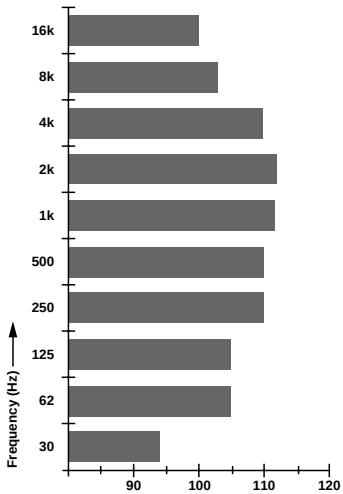
Research remains an integral, driving force behind all production. Meyer strives for sound quality that is predictable and neutral over an extended lifetime and across an extended range.

PHYSICAL DIMENSIONS

ALL UNITS IN INCHES



CONTINUOUS OUTPUT



LISTED 3K59 COMMERCIAL AUDIO SYSTEM

Made by Meyer Sound, Berkeley, CA, USA
European Office:
Meyer Sound Europe
Dalston House
39-49 Hastings Street
Luton Bedfordshire
England, LU1 5BE

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Meyer Sound Laboratories, Inc.
2832 San Pablo Avenue
Berkeley, CA 94702
tel: 510.486.1166
fax: 510.486.8356
e-mail: techsupport@meyersound.com
http: www.meyersound.com