TECHNICAL INFORMATION

HR624 MK2 Specifications

Enclosure

Materials and Construction:

³/4-inch (19 mm) thick MDF cabinet construction with internal bracing to add to cabinet stiffness.

Piano-black gloss finish.

Die-cast aluminum exponential wave guide for controlled, wide dispersion from high-frequency driver and Zero Edge BaffleTM to minimize diffraction around the cabinet edges.

Open cell adiabatic "foam fill" acoustical damping material absorbs internal reflections, preventing delayed sound coloration.

Flush-mount connector system allows monitor to be placed against a wall without need for connector clearance.

Transducers

Low-frequency driver:	
Diameter:	6.7 inches (170mm)
Sensitivity (2.83V, 1 m):	89 dB SPL
Nominal Impedance:	4 Ω
Voice Coil Diameter:	1.25 inches (32mm)
Power Handling (Long Tern	ı/Program):
	50/150 watts
Frequency Range:	45 Hz to 6 kHz
Frame:	Die-cast magnesium
Magnet:	Ferrite
Fully shielded:	Ferrite opposing magnet
High-frequency driver:	
Sensitivity (2.83V, 1m):	91 dB SPL
Nominal Impedance:	6 Ω
Power Handling (Long Tern	n/Program):
	20/50 watts
Frequency Range:	1.6 kHz to 22 kHz
Diaphragm/Suspension:	Titanium with polymer suspension
Voice Coil Diameter:	1.0 inch (25.4mm)
Magnet:	Neodymium
Bucking Magnet:	Ferrite opposing magnet
Density Dell'stern	

Passive Radiator: 6-inch x 9-inch (152mm x 228m

6-inch x 9-inch (152mm x 228mm) mass-loaded elliptical flat piston with variable thickness filleted edge rubber surround.

Crossover Section

Crossover Type: Modified Linkwitz-Riley, 24 dB/octave @ 3 kHz

Amplifier Section

Low-frequency power amplifier Rated Power (at 1 kHz with 1% THD): 100 watts Rated Load Impedance: 4 ohms Rated THD (1W to -1 dB of rated power): 0.1 % Slew Rate: 15V/µS Distortion (THD, SMPTE IMD, DIM 100): < 0.035% Signal-to-Noise (20Hz-20kHz, unweighted, referenced to 100W into 4Ω): > 101 dB Convection Cooling: Design: Monolithic IC, Class AB, Parametric Servo Feedback High-frequency power amplifier Rated Power(at 1 kHz with 1% THD): 40 watts Rated Load Impedance: 6 ohms Rated THD (1W to -1 dB of rated power): 0.1 % Slew Rate: 15V/µS Distortion (THD, SMPTE IMD, DIM 100): < 0.035% Signal-to-Noise (20 Hz-20 kHz, unweighted, referenced to 40 W into 8Ω): > 93 dB Convection Cooling: Monolithic IC, Design: Conventional Class AB

System Specifications

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Input Type:	Balanced Differential
	(XLR and 1/4" TRS)
	Unbalanced (RCA)
Input Impedance:	20 kΩ Balanced
	10 kΩ Unbalanced
Input Protection:	RFI and Level Protected
Maximum Input Level:	+20 dBu
Low Frequency Filter:	80 Hz, 2nd Order, Butterworth
HF Equalization:	Shelving ±2 dB @ 10 kHz
Acoustic Space:	
A position:	–4 dB @ 50 Hz, shelving
B position:	-2 dB @ 50 Hz, shelving
C position:	Flat
Compressor:	
Independent high and low fr	equency overload detection
Enclosure Alignment:	6th Order
Over Excursion Prevention:	2nd Order High-Pass Filter
Low Line Voltage Shut Down:	60% of Nominal Line
Thermal Protection:	Amplifier Shut-Down, Auto Reset
Muting:	5 seconds at turn-on
Signal Sense Threshold:	-74 dBu (0.155 mV)
Driver Protection:	Independent LF and HF Detection
	Overall Compression

Acoustic Section

Free-Field Frequency Response:

	±1.5 dB, 49 Hz to 20 kHz	
Lower cutoff frequency:	–3 dB @ 45 Hz	
Upper cutoff frequency:	–3 dB @ 22 kHz	
Sound Pressure Level at 1 meter, -7.5 dBu into balanced input: 100 dB SPL @ 1		
Maximum peak SPL per pair	r: 115 dB SPL @ 1m	
Maximum short term SPL on axis, half space 80 Hz to 2.5 kHz: 106 dB SPL @ 1m		
Residual noise (maximum gain, 600Ω source, 20 Hz-20 kHz bandwidth): < 8 dB SPL @ 1m		

Rated Line Input Voltage and Power:

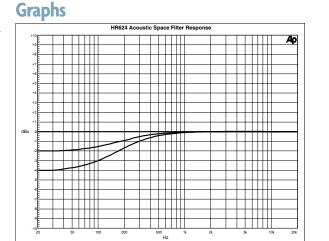
Power consumption:Standby mode:12 wattsQuiescent (idle):20 wattsMusical Program, Loud mix:105 wattsBoth channels driven intoresistive loading to 1% clipping(LF 86W/4Ω, HF 38W/8Ω):255 watts

US: 120 VAC, 60 Hz Europe: 240 VAC, 50 Hz Korea (AC Power Selector at 240 V): 220 VAC, 60 Hz Japan (AC Power Selector at 120 V): 100 V, 50-60 Hz Rated Power (For UL-6500, CSA-E65-94, EN-60065): 130 watts

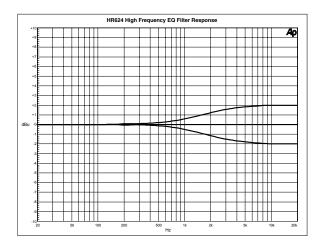
Physical Properties

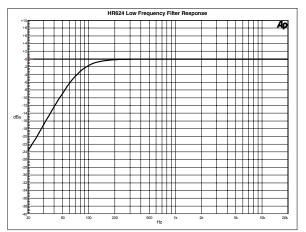
Height:	13.1 in/33.3 cm
Width:	8.6 in/21.9 cm
Depth Enclosure:	10.3 in/26.2 cm
Depth Overall:	12.6 in/31.9 cm
Internal Volume:	0.29 cubic feet (8.2 liters)
Weight:	23.4 lb/10.6 kg

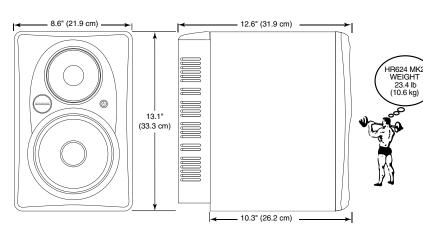
LOUD Technologies is always striving to improve our products by incorporating new and improved materials, components and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice.





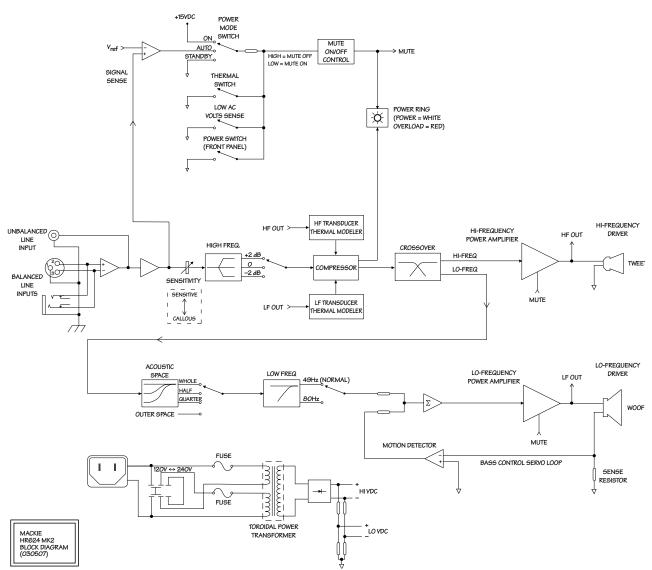






Owner's Manual

HR624 MK2 Block Diagram



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HR624 MK2 design protected under the following patent: DES. 387,351

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