TECHNICAL INFORMATION

HR624 MK2 Specifications

Enclosure

Materials and Construction:
¾-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 Baffle™ 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 Term/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 Term/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

Passive Radiator:
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
Cooling:	Convection
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
Cooling:	Convection
Design:	Monolithic IC, Conventional Class AB

System Specifications

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 frequency 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