



The KX-5974 further enhances the performance of Krix patented horn arrays with the addition of an ultra high frequency horn. The ultra high frequency element significantly improves high frequency pattern control and extension to deliver the ultimate in clarity and definition.

Using sophisticated loudspeaker modelling techniques, the acoustic loading and pattern control have been engineered to achieve industry leading low distortion and smooth directivity characteristics.

Building on a long and successful history within the cinema industry, Krix's in-house research, development and manufacturing team deliver a strong focus on quality and rigorous production standards. Every speaker is comprehensively tested in an advanced acoustic measurement chamber. Tight production tolerances are upheld to ensure best-in-class product quality and reliability.

FEATURES

- The additional ultra high frequency horn permits all drivers to work within their piston operating range for the best possible horn loading, delivering the smoothest possible frequency response, matched directivity control and dialogue intelligence across the critical vocal range.
- Patented constant directivity horn technology for precision coverage and extremely uniform frequency response. The result is that every seat in the cinema experiences improvements in clarity and definition.
- Krix proprietary 'X Bracing' system within the low frequency enclosure for standing wave suppression and reduced panel resonance.
- Krix engineered bass driver featuring, large ferrite magnet structure, dual aluminium shorting rings and symmetrical gap geometry for minimum distortion at all levels.



System options	Tri-amplified passive crossover			Quad-Amplified			
Product code	KX-5974.T			KX-5974.Q			
Frequency	Low	Mid	High	Low	Mid	High	U. High
Sensitivity (2.83 V/m, Half space ³)	108 dB	108 dB	111 dB	108 dB	108 dB	111 dB	102 dB
Input power rating ²	950 W	180 W	160 W	950 W	180 W	130 W	45 W
Impedance	3 Ω	8 Ω	8 Ω	3 Ω	8 Ω	8 Ω	8 Ω
Crossover frequency	350Hz (Low - Mid) 1600Hz (Mid - High)			350Hz (Low - Mid) 1600Hz (Mid - High) 6000 (High - U. High)			
Frequency range	32 – 19,000 Hz (-6 dB)						
Nominal dispersion	90° Horizontal, 40° Vertical						
Dimensions	2533 (H) x 850 (W) x 460 (D) mm			100 (H) x 33 ½ (W) x 18 (D) inches			
Net weight	139 kg			306 lbs			

DETAILED SPECIFICATIONS

	Low Frequency	Horn system	
Part Number ⁵	KX-2640	KX-3972.T	KX-3972.Q
Sensitivity			
1 W/m, Free space	101 dB ¹	108 dB (MF) 111 dB (HF)	108 dB (MF) 111 dB (HF) 102 dB (UHF)
1 W/m, Half space ³	104 dB ¹	108 dB (MF) 111 dB (HF)	108 dB (MF) 111 dB (HF) 102 dB (UHF)
2.83 V/m, Free space	105 dB	108 dB (MF) 111 dB (HF)	108 dB (MF) 111 dB (HF) 102 dB (UHF)
2.83 V/m, Half space ³	108 dB	108 dB (MF) 111 dB (HF)	108 dB (MF) 111 dB (HF) 102 dB (UHF)
Impedance			
Nominal	3 Ω	8 Ω (MF) 8 Ω (HF)	8 Ω (MF) 8 Ω (HF) 8 Ω (UHF)
Minimum	2.7 Ω	8.0 Ω (MF) 6.0 Ω (HF)	8.0 Ω (MF) 7.4 Ω (HF) 7.2 Ω (UHF)
Maximum Input Voltage ⁴			
	177 V	38 V (MF) 36 V (HF)	38 V (MF) 32 V (HF) 19 V (UHF)
Maximum Input Power			
Continuous ²	950 W	180 W (MF) 160 W (HF)	180 W (MF) 130 W (HF) 45 W (UHF)
Peak	3800 W	720 W (MF) 640 W (HF)	720 W (MF) 520 W (HF) 180 W (UHF)
Recommended Processing	Subsonic 30 Hz, >12 dB/oct	Contact Krix for details	
Low frequency transducers	3 x 380 mm (15 inch) paper cone driver, ferrite magnet, vented pole piece, 75 mm (3 inch) edge wound copper voice coil, dual aluminium shorting rings.		
Low frequency enclosure	Vented B4 alignment tuned to 36 Hz, Krix proprietary 'X bracing', optimally damped with polyester fibre, MDF black vinyl finish.		
Mid & High frequency transducers	1 x 152 mm (6 inch) paper cone driver, neodymium magnet, 44 mm (1 ¾ inch) voice coil. 1 x 100mm (4 inch) ferrite magnet compression driver, titanium diaphragm, edge wound aluminium voice coil on high temperature polyimide former. 1 x 44 mm (1¾ inch) compression driver, ferrite magnet, treated polyethylene diaphragm, edge wound aluminium voice coil on treated Nomex former and unique (patented) phase plug architecture.		
Horns	90° x 40° constant directivity, thermoset resin reinforced with glass fibre.		
Horn enclosure	Rear enclosure volume selected to match horn acoustic loading. Internally braced and optimally damped with polyester fibre.		
Horn bracket	Tilt 0° to 15° downwards: Swivel ±15° degrees.		
Terminals	Krix proprietary, high current binding posts featuring an 8mm hole to accept large diameter cable. High visibility polarity indicators.		

NOTES

- All measurements and specifications are made in accordance with AES2-2012 and in a form compatible with Dolby® Atmos™ calculator.
 - Due to continued development, specifications may change without notice.
 - Manufactured and sold under US Patents 7,044,265 B2 and 2011/0153282 A1.
- Sensitivity measurements adjusted to the nominal 1W input power, calculated from the real part of the electrical input impedance over the operating frequency range.
 - Maximum AES continuous power capacity (AES2-2012) band limited test signal duration of two hours.
 - Half space sensitivity based on partial increase due to rear wall loading at low frequencies estimated from the directivity index over operating frequency range.
 - RMS voltage required to deliver the maximum continuous power to the loudspeaker, IEC shaped pink noise with duration of two hours.
 - The KX-5972 is shipped in two parts comprising of a KX-2640 (Low Frequency component) and KX-3972 (Horn system component)

KX-5974

4-WAY SCREEN CINEMA SYSTEM

DETAILED DIMENSIONS



