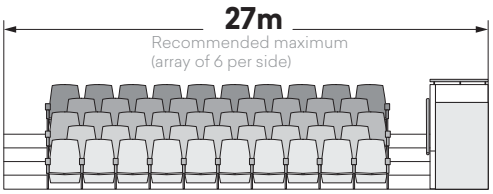
EXPERIENCE SOUND

KX-1870A



10” two way surround loudspeaker

Krix KX-1870A is a compact high powered, high sensitivity two-way passive surround loudspeaker for small to medium sized cinema auditoriums.

All elements of this loudspeaker were engineered by Krix specifically for the following key features:-

FEATURES

- High Power handling and high sensitivity, designed to handle high transients easily.
- Flat and smooth frequency response following the X curve.
- 10 inch bass driver features a 2 “ voice coil with a copper shorting ring for very low distortion. The High Frequency features a proprietary wave guide loaded with a 25mm voice coil textile dome tweeter for further low distortion and extended frequency response. This feature exhibits the X curve response acoustically.
- The passive filter network utilises high order, low loss, filter sections to improve power handling, smoother frequency response, lower distortion. The dispersion response and phase response of the LF and HF elements are carefully matched at crossover point. This results in a constant energy in the room that changes smoothly with changes in frequency. For extra protection, the High Frequency transducer is protected by a polymer switch which will automatically reset.
- Timbre matched with the whole Krix range of Cinema loudspeakers.





Product type	Commercial cinema surround
Frequency range (1)	50 Hz to 21 kHz
Usable LF response (2)	40 Hz
Dispersion (3)	100 deg H, 85 deg vert.
Nominal impedance	8 Ω
Free space sensitivity @ 1W (4)	95 dB
Power handling Dolby Atmos® (5)	350 W @ 48V rms
Free space continuous SPL (6)	120 dB

Due to continued improvements, specifications may change without notice.

NOTES

1. Native response (without DSP) and based on the X curve +3dB -6dB
2. -10dB in half space conditions
3. -6dB averaged to on axis response.
4. Sensitivity calculated from the free-field frequency response over 500 Hz–2 kHz, referenced to 2.83 V RMS/1 m.
5. RMS Voltage to deliver maximum Power, 12dB crest factor shaped pink noise with 80Hz 4th order High Pass Filter for 2 hrs. Power calculated using minimum impedance.
6. Value calculated from rated sensitivity and power

Processing:

For situations where bass management is used, 80 Hz HPF 4th order Linkwitz-Riley filter is recommended as the lowest frequency as per the specifications above.

For 5.1 and 7.1 Cinemas where an extended low frequency may be required a 50Hz 2nd order High Pass Filter is recommended. The maximum voltages will need to be reduced accordingly.

DETAILED DIMENSIONS

