

12” Dual concentric two way surround loudspeaker

Krix KX-1570A is a compact high powered, high sensitivity two-way passive surround loudspeaker for medium to large 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.
- Dual concentric design for symmetrical vertical and horizontal dispersion patterns delivering even coverage across the auditorium. This design eliminates off axis phasing problems.
- 12 inch paper cone bass driver with a 2.5 inch voice coil for high power and low distortion. The High Frequency is mounted in the pole piece of the bass driver. The high frequency compression driver features 1.75 inch voice coil matched to a horn with a 90 degree dispersion pattern.
- 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 18 kHz
Usable LF response (2)	40 Hz
Dispersion (3)	90 deg H, 90 deg vert.
Nominal impedance	8 Ω
Free space sensitivity @ 1W (4)	97 dB
Power handling Dolby Atmos® (5)	525 W @ 55V rms
Free space continuous SPL (6)	123 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 500Hz to 2 kHz, referenced to 2.83V RMS at 1m
5. RMS Voltage to deliver maximum power, using 12dB Crest factor IEC shaped pink noise with 80Hz 4th order HPF and appropriate LPF at rated system frequency range for 2hrs. Power calculated using minimum Impedance.
6. Value calculated from rated sensitivity and power

Processing:

For situations where bass management is used, 80 Hz 4th order High Pass Filter is recommended as per the specifications above.

For 5.1 and 7.1 Cinemas where an extended low frequency may be required, the max voltages will need to be reduced accordingly, and the corresponding High Pass Filter settings applied.

DETAILED DIMENSIONS

