

# Technical Specifications CR57



## PRODUCT INFORMATION

At one time, surround speakers were used only to provide ambient effects, but today they must reproduce signal equivalent to the main channels. In addition to wide dispersion, surround systems must provide flat, full range frequency response and high power handling.

The CR57 full range surround system is engineered for tomorrow's full bandwidth digital surround tracks. A massive woofer is combined with a horn-loaded compression driver. The slanted baffle and wide dispersion pattern allow it to be mounted overhead to cover a wide seating area. High power handling allows designers to use fewer enclosures to cover a given seating area, reducing costs for both equipment and installation. This system's powerful, full range frequency response provides detailed, natural reproduction of the 360° aural arena. THX certification is pending.

## COMPONENTS & CONSTRUCTION

The full range cinema surround loudspeaker system employs one 15-in cone transducer mounted in an optimally vented enclosure and one 1-in exit, titanium diaphragm compression driver mounted to a 90° x 70° dispersion pattern constant directivity horn. The subsystems are integrated with a complex, multicomponent, passive crossover and equalization network.

The enclosure is constructed of 15-mm thickness, void-free, cross-grain-laminated birch plywood. Extensive internal bracing is employed to minimize panel resonances resulting from the large acoustical energies generated within the enclosure while maximizing acoustical energy transfer into the audience area. Input connectors, located on the top of the enclosure, are two-terminal barrier strip, designed to accommodate bare wire, tinned leads or spade lugs. The enclosure is finished in flat black polyurethane and includes a black cloth grill. For safety, the grill is attached with multiple threaded fasteners.

## SPECIFICATIONS

<b>Axial Frequency Response</b>	
±3 dB	45 Hz – 18 kHz
<b>Power Response</b>	
±3 dB	50 Hz – 2 kHz, rolls off at 3dB per octave above 2 kHz (per SMPTE X-curve specifications)
<b>Axial Sensitivity</b>	
1W @ 1m	98 dB SPL
<b>Impedance</b>	
Nominal	8Ω
<b>Power Handling</b>	
AES Standard	600 Watts
100 Hr Sine Wave	300 Watts
<b>Maximum Output</b>	
Peak	126 dB SPL @ 1m
Long Term	123 dB SPL @ 1m
<b>Additional Descriptive Data</b>	
LF Subsystem	15-in Cone, Vented
HF Subsystem	1-in Compression Driver; 90° h x 70° v constant directivity horn
Crossover	Passive
Connectors	2 Terminal Barrier Strip, top mounted
Finish	Flat Black Polyurethane
Grill	Black Cloth
<b>Dimensions &amp; Weights</b>	
Height	18.75 in (476.25 mm)
Width	30.25 in (768.35 mm)
Depth (Top)	14.75 in (374.65 mm)
Depth (Bottom)	8.0 in (203.20 mm)
Net Weight	75 lb (34.09 kg)
Shipping Weight	83 lb (37.35 kg)

