

Technical Specifications CR57F



PRODUCT INFORMATION

The CR57F two-way, passive, full range cinema surround loudspeaker system is engineered to reproduce today's stereo full bandwidth digital surround tracks from wall mounted positions high above the audience. It features a 15-in woofer and a 1-in exit compression driver loaded with a wide dispersion constant directivity horn.

The CR57F is specifically engineered to cover a larger seating area with higher quality, higher output sound than traditional cinema surrounds. With 500 Watts AES standard power handling and a 90° x 70° coverage pattern, it can be mounted higher and cover more seats than traditional surrounds, meaning fewer amps, fewer processors and reduced installation time. Higher placement also lets the systems cover a larger area "across" the room creating a larger area of stereo surround coverage than traditional surround placement. The system produces 8 - 15 dB more output than traditional surrounds.

The front baffle is angled down 20° to accommodate overhead mounting. The optimally vented enclosure increases LF response while limiting driver excursion. This method produces less distortion and minimizes driver strain while extending LF response to the lowest octaves.

Six threaded mounting points on top of the enclosure allow the system to be "dead hung" at a variety of vertical and horizontal angles. Two mounting points (at the center of gravity on each side) accept an adjustable wall mount bracket. Two additional mounting points (one at the upper rear corner of each side) provide additional mounting flexibility. A single mounting point on the bottom accepts an L-bracket. Finally, a single pull back point on the back of the enclosure is provided.

The passive crossover/filter network included in the CR57 is so complex that it goes beyond merely dividing the signal and actually performs critical equalization functions. This means it will provide more detailed, more natural reproduction of any sonic event occurring in the 360° aural arena.

The input connector – a 2-terminal barrier strip that accommodates bare wire, tinned leads or spade lugs - is located on top of the enclosure. The enclosure features a "dead" flat black finish to eliminate visual intrusion of visible surrounds. For safety, the cloth grill is attached with multiple threaded fasteners.

CINEMA SERIES



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COMPONENTS & CONSTRUCTION

The CR57 two-way 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/filter network.

The enclosure is constructed of 15mm 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. A total of twelve 3/8"-16 threaded mounting points facilitate a wide variety of mounting option.

The input connector, located on the top of the enclosure, is a 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.

DESCRIPTIVE DATA

Part Number	999400
LF Subsystem & Loading	1 x 15" vented
HF Subsystem & Loading	1 x 1" compression driver on 90 x70 C.D. horn
Number of Audio Bands	2-way
Type of Audio Bands	Full Range
Powering Mode	Passive
Cabinet Type (shape)	Rectangular w/slanted baffle (20°)
Enclosure Materials	15mm birch plywood
Finish	Flat Black
Connectors	2 terminal barrier strip
Suspension Hardware	(7) 3/8-16 threaded inserts
Grill	Black cloth
Options	wall mount bracket (606067)

NOMINAL DATA

Frequency Response (Hz)	
±3 db	45 Hz - 19 kHz
Efficiency / Axial Sensitivity (dB SPL/1 Watt/1m)	
Full Range Passive	98
Impedance (Ohm)	
Full Range Passive	8
Power Handling (Watts)	
Full Range Passive AES Standard	500
Calculated Maximum Output (dB SPL)	
Full Range Passive Peak	131.0
Full Range Passive Long Term	125.0
Nominal Coverage Angle / -6 dB points (degrees)	
Horizontal	90
Vertical	70
Dimensions	
Height	17.25 in 438 mm
Width	29.75 in 756 mm
Depth (Top)	15.25 in 387 mm
Depth (Bottom)	10.5 in 267 mm
Weights	
Net Weight	56 lb 25.5 kg
Shipping Weight	64 lb 29.1 kg

