

# Technical Specifications CR71

## PRELIMINARY INFORMATION

### PRODUCT INFORMATION



The CR71 two-way, passive, full range cinema surround loudspeaker system is engineered to reproduce today's full bandwidth digital surround tracks in smaller cinemas. It features an 8-in woofer and a 1-in dome tweeter loaded with EAW's proprietary WGP® (Wave Guide Plate®) mounted in a slanted baffle. THX certification is pending.

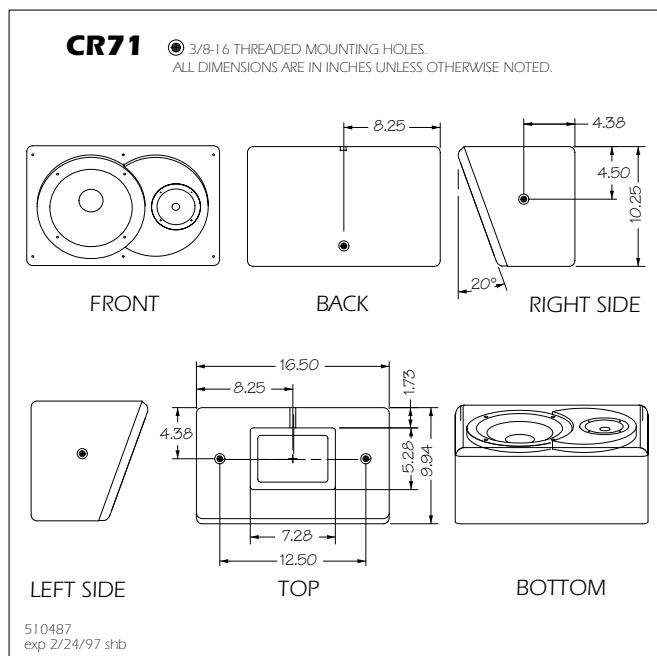
The CR71 is specifically engineered to cover a larger seating area with higher quality, higher output sound than traditional cinema surrounds. With 150 Watts AES standard power handling and a 100° conical coverage pattern, it can be mounted higher and cover more seats than traditional surrounds, meaning 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 WGP's® extra wide dispersion pattern lets CR71's be used in cinemas with low ceilings without sacrificing coverage of fringe seats.

The passive crossover/filter network included in the CR71 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 crossover tailors HF response to match SMPTE/ISO 2969 "X" Curve.

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.

Seven mounting points (two on top, two on each side, one on back) accommodate a variety of mounting options. The back of the enclosure also accepts an Omnimount.

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.



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## COMPONENTS & CONSTRUCTION

The CR71 2-way, passive, full range cinema surround loudspeaker system includes one 8-in cone transducer mounted in an optimally vented enclosure and one 1-in soft dome driver coupled with a WGP®. The subsystems are integrated with a complex, multicomponent passive crossover/filter network.

The enclosure is constructed of 3/4-in Medium Density Fiberboard (MDF). 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 2-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.

## PRELIMINARY INFORMATION

### DESCRIPTIVE DATA

|  |   |
|--|---|
| Part Number                                    | 999537  |
| LF Subsystem & Loading                         | 1 x 8" vented   |
| HF Subsystem & Loading                         | 1 x 1" soft dome in WGP                                 |
| Number of Audio Bands                          | 2-way   |
| Type of Audio Bands                            | Full Range  |
| Powering Mode                                  | Passive   |
| System Crossover                               | 2 kHz   |
| Recommended High-Pass Frequency (24 dB/Octave) | 40 Hz   |
| Cabinet Type (shape)                           | rectangular, slant baffle                               |
| Enclosure Materials                            | 3/4" MDF  |
| Finish   | Flat Black  |
| Connectors                                     | 2 terminal Barrier Strip                                |
| Suspension Hardware                            | 5 x 3/8-16 threaded inserts, 2 top, 1 each side, 1 rear |
| Grill  | Black Cloth   |
| Mounting Bracket (part number)                 | 606005  |

### NOMINAL DATA

|   |  |
|---|--|
| Frequency Response (Hz)                           |  |
| ±3 db   | Low Frequency Limit: 60 Hz; High Frequency Response follows the SMPTE/ISO 2969 "X" Curve |
| Efficiency / Axial Sensitivity (dB SPL/1 Watt/1m) |  |
| 95  |  |
| Impedance (Ohm)                                   |  |
| 8   |  |
| Power Handling (Watts)                            |  |
| Standard  | 150  |
| Calculated Maximum Output (dB SPL)                |  |
| Peak  | 122.8  |
| Long Term   | 116.8  |
| Nominal Coverage Angle / -6 dB points (degrees)   |  |
| Horizontal  | 90   |
| Vertical  | 90   |
| Dimensions  |  |
| Height  | 10.25 in 260 mm  |
| Width   | 16.5 in 419 mm   |
| Depth (Top)                                       | 10 in 254 mm   |
| Depth (Bottom)                                    | 6.75 171   |
| Weights   |  |
| Net Weight  | 24 lb 10.9 kg  |
| Shipping Weight                                   | 30 lb 13.7 kg  |

