

Technical Specifications CB150x



PRODUCT INFORMATION

The CB150x full-range passive stage/screen loudspeaker system offers small cinemas cost-effective access to the future of cinema audio – 3-way loudspeaker design. Its passive design lets it replace existing two-way systems powered by a single amplifier channel without requiring new processors or amplifiers.

The two component system consists of a BV153C low frequency enclosure and an HK200 passive mid/high system integrated via a passive crossover/filter network. EAW's complex, computer-designed passive filter networks are tightly aligned to the loudspeakers they control and go beyond merely dividing the signal, performing critical equalization functions.

Three-way design dramatically advances cinema audio quality by improving the naturalness and intelligibility of dialog, eliminating distortion from excessive driver excursion and extending pattern control into the lower octaves.

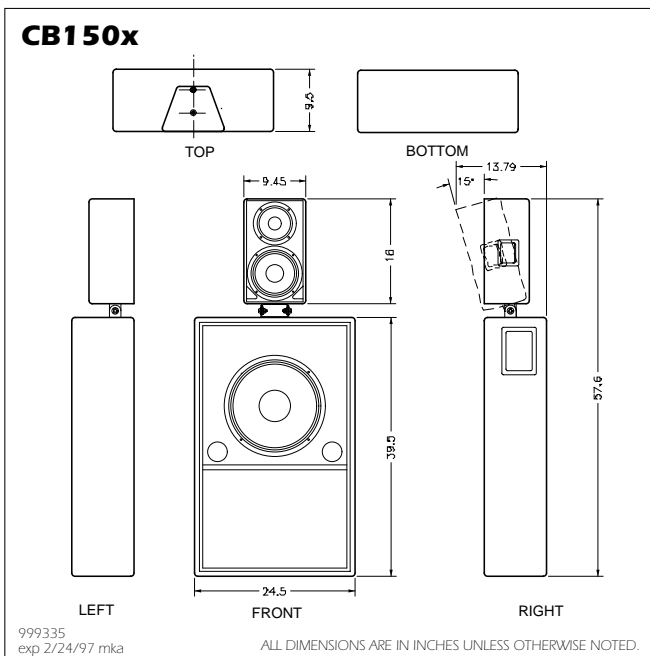
The CB150x's passive mid/high component – the HK200 – features a dedicated midrange frequency subsystem that solves many of cinema audio's long standing problems. Moving crossover points out of the vocal region eliminates the acoustical anomalies which degrade the naturalness and intelligibility of dialog. Its direct radiating 7-in MF cone transducer eliminates the horn-throat cancellation distortion typical of two-way cinema loudspeakers. And by loading the 1-in exit high frequency compression driver with EAW's patented WGP® waveguide, HF information is distributed evenly over the entire audience area.

The BV153C low frequency subsystem uses optimally tuned enclosure venting to increase LF response while limiting driver excursion. This method produces less distortion and minimizes driver strain while extending LF response to the lowest octaves. The enclosure's shallow dimension allow convenient placement behind the screen.

The LF enclosure has 2 mounting points to allow optimum front/rear positioning of the mid/high component. The adjustable steel bracket attaching the mid/high component to the LF enclosure allows the mid/high section to be aimed independently of the LF section in both the horizontal and vertical planes and can be locked once it is positioned.

The 2-terminal barrier strip input connector creates a gas-free connection to minimize corrosion and maximize signal transfer. A jumper cable is provided to extend the signal chain to the mid/high component. The input panel is located on the side of the enclosure for convenient access in cramped installation areas.

All external components feature a "dead" flat black finish to eliminate the reflection of light through perforated cinema screens.



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COMPONENTS & CONSTRUCTION

The CB150x is a compact, passive, three-way, high-output, full range loudspeaker system intended for use in behind-screen cinema applications. The two component system consists of a BV153C low frequency enclosure and an HK200 passive mid/high system.

The system requires no external active electronic crossover. An internal passive crossover/filter network integrates all subsystems. EAW's complex, computer-designed passive filter networks are tightly aligned to the loudspeakers they control and go beyond merely dividing the signal, performing critical equalization functions.

The BV153C low frequency component features a single 15-in low frequency driver mounted in a slim, vented enclosure for excellent bass extension and high output level capability.

The HK200 mid/high component features a 1-in exit compression driver loaded with EAW's proprietary WGP® (Wave Guide Plate) and a direct radiating 7-in cone transducer covering the entire vocal range.

The LF cabinet is constructed of 3/4-in Medium Density Fiberboard (MDF) with the exception of the baffle, which is constructed of 15mm void-free, 18-ply-to-the-inch Baltic birch plywood. The mid/high enclosure is constructed entirely of the same MDF. Extensive internal bracing is provided for both the LF and mid/high sections. The enclosures and all external parts are coated with a flat black polyurethane finish.

The input connector is a 2-terminal barrier strip located on the side of the LF enclosure for convenient access in cramped installation areas. A jumper cable is provided to extend the signal chain to the mid/high component.

The adjustable steel bracket attaching the mid/high component to the LF enclosure allows the mid/high section to be aimed independently of the LF section in both the horizontal and vertical planes and can be locked once it is positioned. The LF enclosure has 2 mounting points to allow optimum front/rear positioning of the mid/high component.

DESCRIPTIVE DATA

Part Number	999531
LF Subsystem & Loading	1 x 15" vented
MF Subsystem & Loading	1 x 7" vented
HF Subsystem & Loading	1 x 1" compression driver on WGP
Number of Audio Bands	3-way
Type of Audio Bands	Full Range
Powering Mode	Passive
System Crossover	Passive
Recommended High-Pass Frequency (24 dB/Octave)	30 Hz
Cabinet Type (shape)	rectangular (LF), trapezoidal (MF/HF)
Enclosure Materials	3/4" MDF, 15mm baltic birch plywood baffle (LF); 3/4" MDF (MF/HF)
Finish	Flat Black
Connectors	2 terminal barrier strip

NOMINAL DATA

Frequency Response (Hz)	
±3 db	40 Hz - 19 kHz
Efficiency / Axial Sensitivity (dB SPL/1 Watt/1m)	
	98
Impedance (Ohm)	
	8
Power Handling (Watts)	
AES Standard	500
Calculated Maximum Output (dB SPL)	
Peak	131.0
Long Term	125.0
Nominal Coverage Angle / -6 dB points (degrees)	
Horizontal	90
Vertical	90
Recommended Complementary Systems	
Sub	SB184C, SB185C, SB284C
Dimensions	
Height	67.63 in 1718 mm
Width	24.5 in 622 mm
Depth	9.5 in 241 mm
Weights	
Net Weight	103 lb 46.9 kg
Shipping Weight	115 lb 52.3 kg

