



APPLICATION

- For very large theaters
- Bi-amplified 2-way screen channel loudspeaker

PRODUCT INFORMATION

The CB2592 large format 2-way screen channel loudspeaker system fills the largest theaters with all the high-impact, full-range sound encoded on today's digital soundtracks while reproducing voices clearly and naturally.

The three component system includes two BV253C vented dual 15-in low frequency units and EAW's HK2591 high frequency system – a large format 90° x 40° horn loading a large diaphragm 2-in exit compression driver.

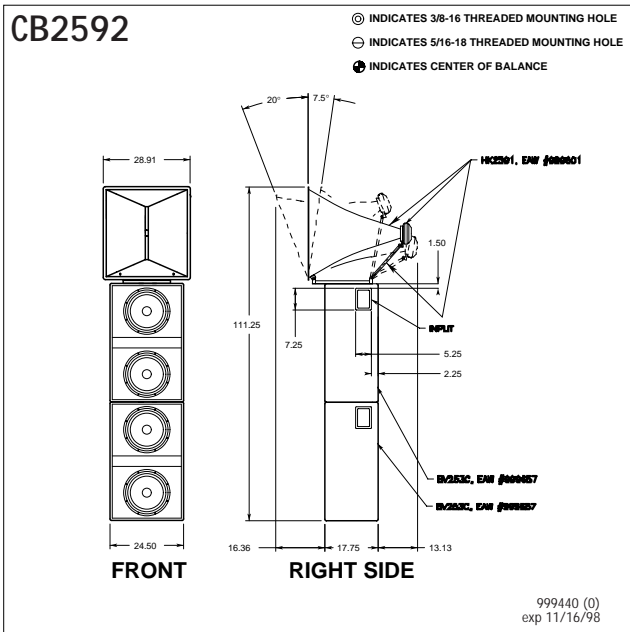
The HK2591's large format HF cinema horn ensures even distribution of HF information over the entire audience area.

The BV253C's optimally vented enclosures use enclosure resonance 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. Their shallow enclosure dimensions allow convenient placement behind the screen.

Each LF enclosure has 3 mounting points to allow optimum front/rear positioning of the HF component. The adjustable mounting bracket attaching the HF horn to the LF enclosure allows the HF horn 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 section includes a two-terminal barrier strip that accommodates bare wire, tinned leads or spade lugs. The HF component uses heavy duty spring-loaded push button type connectors. Input connectors for the LF section are located on the side of the enclosure for convenient access in cramped installation areas. HF input connectors are directly on the compression driver.

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



COMPONENTS & CONSTRUCTION

The CB2592 is a biamplified, high output, two-way, full range loudspeaker system intended for use in cinema applications. It features 4x 15-in low frequency transducers mounted in two compact, vented enclosures and a 2-in exit titanium diaphragm compression driver mounted to a large format 90° x 40° constant directivity horn.

The CB2592 requires an external active electronic crossover. The recommended crossover point is 500 Hz.

The low frequency enclosure is constructed of 3/4-in thick Medium Density Fiberboard (MDF) with the exception of the baffle which is 15mm void-free, cross-grain-laminated Baltic birch plywood. Extensive internal bracing is employed to minimize panel resonances resulting from the large acoustical energies generated within the enclosures.

The high frequency horn is constructed from a specially dampened fiberglass which is non-resonant, lightweight and non-reflective.

The LF section includes a two-terminal barrier strip that accommodates bare wire, tinned leads or spade lugs. The HF component uses heavy duty spring-loaded push button type connectors. Input connectors for the LF sections are located on the side of the enclosure for convenient access in cramped installation areas. HF input connectors are directly on the compression driver.

The adjustable mounting bracket attaching the HF horn to the LF enclosure can be positioned at one of three mounting points for optimum HF horn placement. It allows the HF horn to be aimed independently of the LF section in both the horizontal and vertical planes and can be locked once it is positioned.

DESCRIPTIVE DATA

Part Number	999440
LF Subsystem & Loading	4x 15-in, vented
HF Subsystem & Loading	1x 2-in exit compression driver on large format CD horn
Number of Audio Bands	2-way
Type of Audio Bands	Full Range
Powering Mode	Biamplified
System Crossover	Active (500 Hz at 24 dB/oct minimum)
Recommended High-Pass Frequency (24 dB/Octave)	30 Hz
Cabinet Type (shape)	Rectangular LF cabinet (x2) with externally mounted HF horn/driver
Enclosure Materials	3/4-in MDF with 15mm Baltic birch plywood baffle
Finish	Flat Black
Connectors	LF - 2 terminal barrier strip (x2); HF - spring-loaded pushbutton (accepts bare wire)

NOMINAL DATA

Frequency Response (1 Watt @ 1m)		
±3 dB	42 Hz -18 kHz	
Axial Sensitivity (dB SPL, 1 Watt @ 1m)		
LF	103	
HF	111	
Impedance (Ohms)		
LF	2x 4 Ohms	
HF	12	
Power Handling, AES Standard (Watts)		
LF	2000	
HF	100	
Calculated Maximum Output (dB SPL @ 1m)		
LF Peak	142.0	
HF Peak	137.0	
LF Long Term	136.0	
HF Long Term	131.0	
Nominal Coverage Angle/-6 dB points (degrees)		
Horizontal	90	
Vertical	40	
Recommended Complementary Systems		
Sub	SB184C, SB185C, SB284C	
Dimensions		
	Inches	Centimeters
Height	112.44	285.6
Width	29.00	73.7
Depth	34.19	86.8
Weights		
	Pounds	Kilograms
Net Weight	343.5	156.3
Shipping Weight	391.5	178.1

