



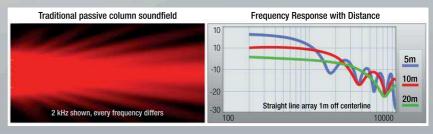
The JBL CBT Series with Constant Beamwidth Technology

Ushering in a new era for passive column speaker technology based on years of extensive research conducted by Harman engineers, the JBL CBT Series line array columns with *Constant Beamwidth Technology* break new ground in performance, versatility, and affordability. Designed for venues that would typically use larger point-and-shoot speakers, the CBT models incorporate technical advancements that allow them to vastly outperform competitive systems, with a level of user-friendliness that virtually eliminates the challenges of delivering great sound.

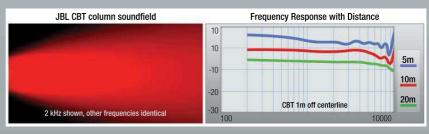
Constant Beamwidth Technology

At the core of the CBT Series is a forward thinking conceptual design that shatters the notion of passive column speakers as performance-limited solutions to sound reinforcement. The CBT Series raises the bar far beyond the competition with patent pending technology that draws upon and adds to the long history of JBL innovation, delivering new capabilities, many of which are firsts in the industry.

The Challenge With traditional passive columns, the coverage continually narrows at higher frequencies, resulting in much of the listening area being covered by only part of the sound spectrum. Driver interactions cause the frequency response to change at every point off - axis and at every distance away from the speaker. Each listener hears a different balance of sound. In addition, lobes of sound projecting outside the listening area increase the reverberation, reducing intelligibility and interfering with musical quality.



The Solution Constant Beamwidth Technology solves these problems by locking in and maintaining a specific coverage over a very wide bandwidth. The CBT models deliver smooth, consistent coverage that is similar to complex and far more expensive line arrays. The CBT Series' constant directivity coverage delivers consistent frequency response at every distance as well as off-axis. With the CBT Series, every seat in the house experiences the same quality of sound regardless of position.

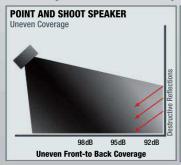


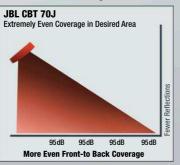
The Revolutionary CBTJ Models

Advantages of **Asymmetrical Vertical Coverage**

The J-shape of the array works in conjunction with the *Constant Beamwidth Technology* circuitry to provide asymmetrical coverage similar to that of expensive line arrays commonly used in concert systems. The J column sends highly concentrated sound toward the back of the venue, while down-filling a broader, less concentrated sound to the front of the venue. This results in more consistent sound levels from front to back.

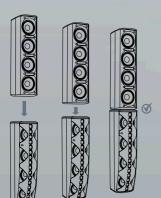
Advantages of CBT 70J's Asymmetrical Coverage





HIGH OUTPUT & WIDE BANDWIDTH

The Two-Way **CBT 70J** produces high sound levels, rivaling larger Two-Way loudspeakers in output sound level as well as providing wide, smooth frequency response throughout its coverage area.



CBT 70JE EXTENSION CABINET The **CBT 70JE** further extends the pattern control of the **CBT 70J** by doubling its height. This lowers the frequency to which the speaker holds a consistent coverage pattern. The **CBT 70JE** also extends the low frequency capability of the system.

MULTIPLE CONFIGURATIONS The selectable vertical coverage, music/speech settings, the option to add an extension for bass and pattern control, asymmetrical vertical coverage, high output, and wide bandwidth makes the **CBT 70J** an extremely versatile loudspeaker, ideal for a very wide variety of common applications.



USER VARIABLE VOICING The Music/Speech switch (on all CBT models) allows quick and easy adjustment of the response. Music mode provides a flat, balanced frequency response, while Speech mode adds a mid-range presence peak for enhanced speech intelligibility. So, regardless of the application, the CBT Series can be tailored to suit the need.

Adjustable Coverage to Fit the Application

For the first time ever in a passive column loudspeaker, the coverage pattern of the CBT models can be adjusted with a simple switch. This allows the CBT to meet the requirements of a very broad range of applications. **Broad** Coverage Mode is excellent for mid-throw situations. **Narrow** Coverage Mode is for long-throw applications.

Applications

The versatility and performance of the CBT Series address a broad range of applications such as performance spaces, transit centers, lecture halls, board/meeting rooms, retail stores, houses of worship, courtrooms, theme parks, lobbies, cinemas, and any other application requiring a speaker with discrete appearance, excellent sound and superb pattern control







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CBT100LA 100 cm straight line array with 16 x 2"

CBT 70J

CBT 70JE 70 cm extension line array cabinet

Description: 50 cm straight line array with 8 x 2" drivers plus patent-pending Constant Beamwidth Technology™ circuitry Applications: General Low-Level Sound, Video Monitors, Retail, Concourses, Transit Spaces, Fill Applications, Conference

Rooms, Architectural Spaces.

drivers plus patent-pending Constant Beamwidth Technology[™] circuitry

Lecture Halls, Difficult Acoustic Environments, Transit Centers, Conference Rooms, Cathedrals, Multipurpose Spaces, Architectural Spaces.

70 cm J-shaped coaxial line array with 16 x 1" tweeters, 4 x 5" woofers plus patent-pending Constant Beamwidth Technology[™] circuitry

A/V, Small Performance Auditoriums, Classrooms, Lecture Halls, Outdoor: Pole -Mounted at School Stadiums, Race tracks, Theme Parks, Fill Applications.

Asymmetrical Vertical Coverage

Extends pattern control of CBT 70J to 400 Hz, doubles the power handling, increases low frequency SPL.

SELECTABILITY Vertical Coverage:

Equalization:

Tap Settings:

Max SPL 1:

Mounting:

Equalization

Switchable: Narrow=15°

Broad = 40°

80 Hz - 20 kHz

96 dB

325 W

600 Hz

Music (flat) / Speech

120W multi-tap for 70V/100V,

plus 8 ohms

8 ohms

n/a

Broad = 45° asymmetrical

Narrow = 25° asymmetrical

Music (flat)/Speech

n/a

8 ohms

PERFORMANCE Freq. Resp. (-10 dB):

Power Handling (low-Z):

Sensitivity (SPL @ 1m, 3.3 ft)¹:

Pattern Control Frequency (± 20°):

80 Hz - 20 kHz

Music (flat)/Speech

60W multi-tap for 70V/100V,

plus 8 ohms

93 dB

20°

150 W

115 dB (121 dB peak)

1500 Hz

10 x M6 insert points. wall bracket included

528 x 99 x 153 mm (20.8 x 3.9 x 6.0 in)

1 Narrow, speech mode

wall bracket included 1000 x 99 x 153 mm (39.4 x 3.9 x 6.0 in)

121 dB (127 dB peak)

18 x M6 insert points.

60 Hz - 20 kHz

Switchable:

98 dB 500 W

125 dB (133 dB peak)

800 Hz

10 x M6 insert points. wall bracket included

695 x 168 x 235 mm (27.4 x 6.6 x 9.3 in)

for CBT 70J with 4 x 5" woofers

System: 45 Hz - 20 kHz

System: 100 dB System: 1000 W

System: 130 dB (136 dB peak)

System: 400 Hz

CBT 70JE: 10 x M6 insert points, combining bracket included

695 x 168 x 235 mm (27.4 x 6.6 x 9.3 in)

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