

# CWT SERIES

CROSSFIRED WAVEGUIDE TECHNOLOGY

JBL

PROFESSIONAL  
by HARMAN







# CWT128

Dual 8" 2-Way  
Extremely Wide-Angle Coverage  
Loudspeaker System

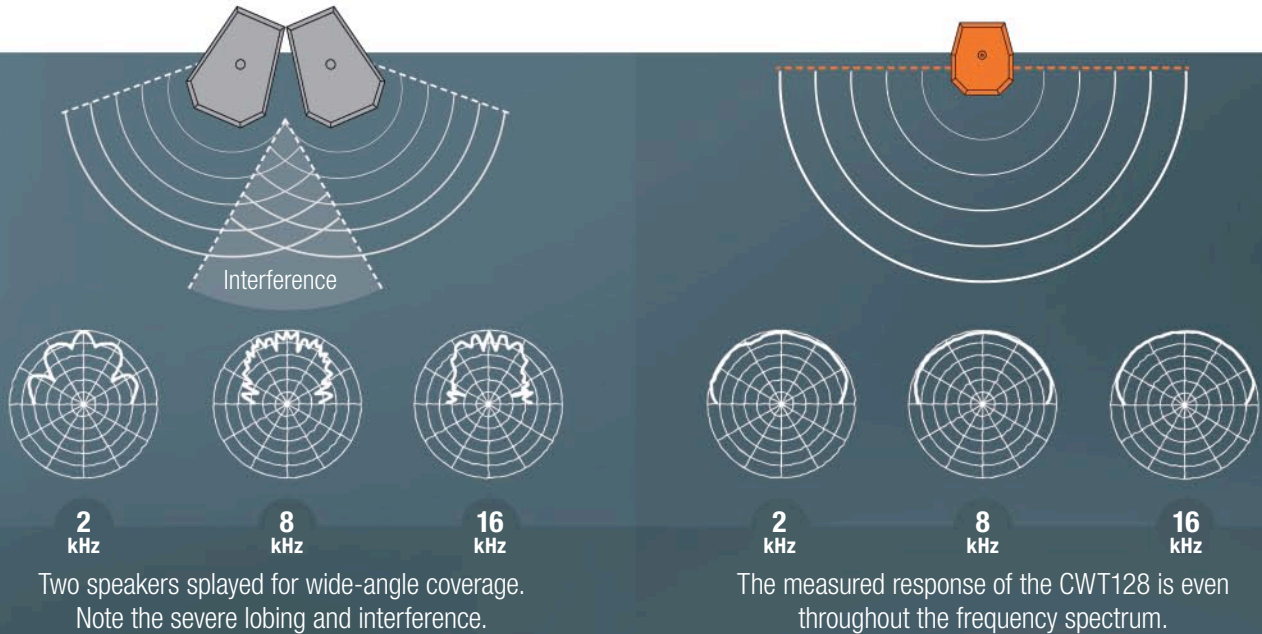
## An Elegant Solution

Drawing on its vast experience in the art and science of loudspeaker technology, JBL continually sets new standards for the audio industry while creating elegant solutions for the challenges that face all sound professionals. A typical challenge of many sound reinforcement applications is to provide high quality, full bandwidth sound evenly dispersed across a coverage area greater than 100 degrees. This is often addressed by mounting two speaker systems splayed to achieve wider horizontal coverage. But this approach produces interference where the coverage patterns overlap, resulting in uneven sound fields and compromised intelligibility. JBL engineers created an innovative solution to this problem: the CWT128 Dual 8" 2-Way Loudspeaker System featuring CWT Crossfired Waveguide Technology.

Typical System

vs.

**CWT128**



Two speakers splayed for wide-angle coverage.  
Note the severe lobing and interference.

The measured response of the CWT128 is even  
throughout the frequency spectrum.

## CWT Crossfired Waveguide Technology

### Wide Coverage Waveguide

At the heart of the CWT128 is the CWT Waveguide featuring a wide coverage pattern designed to provide seamless horizontal coverage across a full 160°. Based on JBL patented technology, the CWT Waveguide is essentially split in half and loaded with two compression drivers facing in different directions. The waveguide delivers wide angle coverage in a single enclosure, exhibiting no interference, and providing remarkable off-axis response. By eliminating multiple sets of speakers that interfere with each other, the overall fidelity of the system is greatly improved, intelligibility is increased, and a more pleasant listening experience is provided for the audience.

### The Practical Benefits of CWT Technology - Smaller Footprint with High Performance

The CWT128 addresses all the practical realities of configuring, installing and managing a fixed installation sound system. Its smaller footprint, about a third that of two splayed speakers, allows configuration in smaller, architecturally sensitive environments. Combining dramatically improved performance with a lower total cost of ownership, the CWT 128 reduces the number of cabinets, cabling, mounting hardware, setup time, transport space and weight.



### Proven Dual 2408H-1 Compression Drivers

High frequencies are handled by dual 2408H-1 1" exit, 1.5" diaphragm neodymium compression drivers that deliver higher power levels with lower distortion, better coverage and lighter weight. These proven JBL drivers are renowned for their high power handling and smooth response.

### High Performance 8" JBL SFG™ Low Frequency Drivers

Low frequencies are handled by dual 8" JBL SFG™ (Symmetrical Field Geometry) LF drivers each with a copper clad aluminum edge wound 2.5" voice coil and a copper clad pole piece that improves performance by reducing voice coil inductance and distortion. The SFG LF drivers combine smooth response, extended low frequency bandwidth, and extremely low distortion. Delivering an optimum balance of efficiency and bass response, they perfectly complement the CWT Technology.







### Rugged Cabinet Fitted with Flexible Hardware

The rugged multi-ply hardwood enclosure is designed with multiple mounting options and finished in JBL's textured DuraFlex™ finish. The steel grille is finished with a heavy duty powder coating for durability and includes an acoustically transparent foam backing. The slightly cylindrical body contour of the cabinet provides an elegant sophistication that blends well with contemporary architectural spaces.

### Ease of Installation

The CWT128 is easy to install with 4 M10 attachment points built in across the top and sides. In addition, 4 M8 points on the back panel accept OmniMount® wall mounting brackets. The CWT128 replaces two or more cabinets with one cabinet in typical applications, reducing setup time, cable runs and hardware.

### Optional Finishes

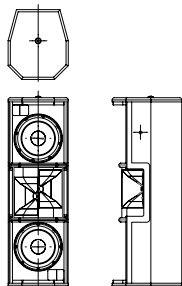
The CWT128 is available in white - WH. WRC and WRX weather resistant versions are available upon request.



### A Wide Range of Applications

The CWT128 is specifically designed to work in a variety of performance spaces including performing arts facilities, houses of worship, auditoriums, lecture halls, and conference facilities. For larger, public spaces, applications include transportation facilities, theme parks, and sports facilities. With its superb, high fidelity sound and driver complement, it is also well suited for cinema use where multiple surround cabinets are required.

## CWT128 DESCRIPTION SPECIFICATIONS



<b>System Type:</b>	Dual 8" 2-Way Bass-Reflex
<b>Maximum SPL Output:</b>	129 dB
<b>Frequency Range (-10 dB):</b>	71 Hz - 20 kHz
<b>Frequency Response (±3 dB):</b>	96 Hz - 19 kHz
<b>Coverage Pattern:</b>	160° x 60°
<b>Dimension (H x W x D):</b>	811.28 mm x 259.59 mm x 300.74 mm (31.94 in x 10.22 in x 11.84 in)
<b>Net Weight:</b>	18.6 kg (40.9 lb)