



# Dolby® CS128MH Mid-/High Screen Channel Speaker

## Superior coverage. Enhanced detail.

A primary component of our new System 128, the Dolby CS128MH screen speaker is one of our newest innovations that feature a patented asymmetrical waveguide coupled to a 75mm titanium dome high-frequency driver, which produces a unique coverage pattern specifically designed for the seating areas of commercial cinema auditoriums. The asymmetrical coverage pattern transitions from 60° at the top, to 120° at the bottom of the waveguide ensuring optimized volume by pushing louder audio to the rear seats while gradually widening and softening the coverage for the seats closer to the front, creating more articulate/uniform dialog and soundtrack delivery than experienced with other systems.

The CS128MH utilizes an advanced input plate that features a high-current, spring-loaded terminal block allowing quick, tool-free connection during installation, and when combined with the new Dolby CS128LF low-frequency cabinet using the provided yoke, completes the Dolby System 128, providing elevated large-format auditorium performance and streamlined speaker integration.



### Key features

- Patented advanced asymmetrical waveguide design provides even coverage and volume shading for the entire auditorium
- Low-distortion, 75mm titanium dome high-frequency driver delivers smooth and faithful response up to 20 kHz.
- Advanced input plates featuring high-current, spring-loaded terminal block allows quick, tool-free connection during installation
- Quality constructed wood enclosure employs natural convective cooling vents for the HF driver and crossover
- Custom, high sensitivity, 12" mid-frequency driver incorporates motor and suspension technology that optimizes cooling, as well as an aluminum demodulation ring for decreased distortion.
- Passive crossover is installed in cabinet allowing a single amplifier channel to drive the CS128MH (will require a minimum of two amplifier channels when coupled with the CS128LF to form a System 128)
- Shallow, 10.87" (27.63 cm) depth and laterally mounted input plate enable both easy installation and service access in challenging spaces
- Mounting yoke with horizontal alignment decal included
- BKT.FLR floor bracket kit (sold separately)\*

# Dolby CS128MH Mid-/High Screen Channel Speaker

## Specifications\*\*

Frequency Range <sup>1</sup>	255Hz - 20kHz
Coverage Window (Asymmetrical) <sup>2</sup>	60° Top Horizontal 120° Bottom Horizontal 60° Vertical
Rated Impedance	8 Ohms
Sensitivity @ 1 Watt <sup>3</sup>	101dB
Power Handling <sup>4</sup>	300W @ 49Vrms
Power Draw <sup>5</sup>	300W
Maximum voltage peak <sup>6</sup>	100Vpk
Maximum Continuous SPL @ 1 meter <sup>7</sup>	126dB
Measured Acoustic Peak SPL @ 1 meter <sup>8</sup>	138dB
Transducers:	MF - 12" Woofer with optimized cooling & demodulation ring HF - 75mm titanium dome driver
Input	Barrier Strip (advanced input plate w/high-current spring loaded terminal block)
Enclosure	Wood
Accessories	Mounting yoke (included) BKT.FLR Floor Bracket Kit (sold separately), includes (2) brackets
Dimensions (Unit)	26.32"H x 15.46"W x 10.87"D (66.85 x 39.3 x 27.61 cm)
Weight (Unit)	58 lb (26.3 kg)
Dimensions (Shipping)	33"H x 20"W x 16"D (83.82 x 50.8 x 40.64 cm)
Weight (Shipping)	61 lb (27.67 kg)

1. +3dB/-6dB in full space conditions using recommended processing

2. Horizontal Top and Vertical -6dB averaged to on-axis response. Horizontal Bottom -9dB averaged to on-axis response for near-field proximity compensation

3. Measured with 12 dB crest pink noise @ 2.83 Vrms in whole- space conditions with required HPF and a 48 dB BW LPF at the rated frequency range of the system.

4. 12 dB crest pink noise for 2 hours with required HPF and 48 dB bandwidth (BW) low-pass filter (LPF) @ the rated system frequency

5. Measured average power over 5 seconds at the rated Vrms using 12 dB crest pink noise with required HPF and LPF. This measured power draw from the amplifier is useful for estimating amplifier sizing in overall system design.

6. Measured Vpk over 100 hours using a Hann shaped sine-wave burst at the maximum excursion frequency of the system. This data is useful for setting peak stop limiters and amplifier selection.

7. Calculated from rated sensitivity and power.

8. Measured peak SPL over 5 seconds at rated Vrms using 12 dB crest pink noise with required HPF.

This documentation applies to CID1030

The English version of this document is the only legally binding version.

Translated versions are not legally binding and are for convenience only.

\*BKT.FLR - Floor-bracket kit must be used (sold separately) to secure the entire speaker system to the auditorium mounting surface.

\*Sound and vibration from this type of speaker system is high and may cause cabinets to shift. Failure to secure the bottom speaker cabinet to the mounting surface may result in a tip/fall of the entire system which may cause damage or injury. Proper selection of mounting hardware is not included and proper assembly and installation of mounting hardware, including, but not limited to, selection of appropriate weight bearing support and bracket use is the exclusive responsibility of the installer. Dolby disclaims any liability, including damage or injury, for the selection of i) non-Dolby manufactured mounting hardware or ii) third-party manufactured mounting hardware not previously approved in writing by Dolby, and/or bracket installation. Any modification to the speaker system hardware provided by Dolby (i.e. mounting by drilling holes into the speaker system) will result in a null and void product warranty.

\*\*Specifications are subject to change without notice.



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