

# Dolby® CS136MH Mid-High Screen Channel Speaker



## Superior coverage. Lower distortion.

A primary component of our new Systems 133 and 136, the Dolby CS136MH is one of our newest speaker innovations that features a proprietary asymmetrical dual-entrant horn to deliver consistent audio coverage and uniform volume shading for every seat in the venue.

Utilizing custom compression-driver technology, the CS136MH yields greater intelligibility and enhanced Mid and Mid-High-frequency performance.

With intuitive ergonomic design and features, the Dolby CS136MH allows for quick, easy installation and service.

Built on the foundation of Dolby's industry-leading system design and support philosophy, the Dolby CS136MH provides extended coverage and streamlined integration for premium large-format cinemas.

### Key features

- Dual-entrant asymmetrical horn design allows for close driver proximity which yields improved pattern control around the crossover frequency and provides even coverage and volume shading for the entire auditorium
- Quality high-frequency compression driver - exhibits superb performance in the 5kHz-10kHz articulation ranges, with a significant reduction of Total Harmonic Distortion (THD) compared to some competitive designs
- Custom ring radiator mid-frequency compression driver covers the entire primary vocal-range (400Hz-4kHz), greatly enhancing intelligibility, sensitivity, and power handling
- Advanced input plate featuring high-current, spring-loaded terminal block and unique flip-card PCB electrical routing, allows for quick, tool-free connection during installation and easy selection of either passive or bi-amp configurations.
- Preassembled horn design simplifies setup while reducing freight costs
- Intuitive tilt and pan mechanisms can be used with laser aiming sights in the speaker horn. This provides quick and accurate aiming of the horn using a common laser pointer.

NOTE: BKT.136 - Tie plate kit (included with CS136MH) are used to connect the two CS136LF speakers together to prevent movement or shifting of the cabinets due to high levels of sound and vibration. These brackets must be installed prior to system use. Dolby disclaims any liability, including damages or injury, if installer fails to comply with these instructions.

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.

## Dolby CS136MH Mid-High Screen Channel Speaker

### Specifications\*

Frequency Range <sup>1</sup>	400Hz - 20kHz
Coverage Window (Asymmetrical) <sup>2</sup>	55° top H, 100° Bottom H, 50° V
Passive Mode Rated Impedance	8 Ohms
Bi-amp** Mode Rated Impedance	MF 8 Ohms / HF 8 Ohms
Passive Mode Sensitivity @ 1 Watt <sup>3a</sup>	104dB
Bi-amp** Mode Sensitivity @ 1 Watt <sup>3b</sup>	MF 112dB / HF 106dB
Passive Mode Power Handling <sup>4a</sup>	500W @ 63.2Vrms
Passive Mode Power Draw <sup>6a</sup>	195W
Bi-amp** Mode Power Handling <sup>4b</sup>	MF 125W @ 31.6Vrms / HF 75W @ 24.5Vrms
Bi-amp** Mode Power Draw <sup>6b</sup>	MF 100W / HF 60W
Passive Mode Maximum Continuous SPL @ 1 meter <sup>5a</sup>	131dB
Passive Mode Measured Acoustic Peak SPL @ 1 meter <sup>7a</sup>	142dB
Bi-amp** Mode Maximum Continuous SPL @ 1 meter <sup>5b</sup>	133dB (MF 133dB + HF 125dB)
Bi-amp** Mode Measured Acoustic Peak SPL @ 1 meter <sup>7b</sup>	143dB (MF 142dB + HF 135dB)
Transducers:	MF - 2" exit / 3.5" voice coil ring radiator HF - 1.4" exit / 3" voice coil titanium diaphragm
Enclosure	Asymmetrical Dual-entrant horn
Accessories	BKT.136 Tie plate Kit (included with CS136MH)
Dimensions (Unit)	30.11"H x 30.22"W x 23.21"D (76.5 x 76.8 x 59 cm)
Weight (Unit)	48.5 lb. (22 kg)
Dimensions (Shipping)	33.25" x 33.50" x 27.37"D (84.5 x 85.1 x 69.5 cm)
Weight (Shipping)	75 lb (34.02 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

3a. Measured with 12dB crest IEC 60268-1 noise @ 2.83Vrms in whole space conditions with recommended HPF and a 48dB BW LPF at the rated frequency range of the system

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

4a. 12dB crest IEC 60268-1 noise for 2-hours with recommended HPF, calculated power based on rated impedance.

4b. 12dB crest pink noise for 2-hours with recommended HPF and LPF, based on AES2/2012 standard, calculated power based on rated impedance. MF used recommended HPF and LPF. HF used recommended HPF and a 48dB BW LPF at the rated frequency range of the system

5a. Calculated from rated sensitivity and power.

5b. MF and HF calculated from rated sensitivity and power. Total SPL is presented as a non-coherent summation.

6a. Measured average power over 5 seconds at the rated Vrms using 12dB crest IEC noise with recommended HPF and LPF. This measured power draw from the amplifier is useful for estimating amplifier sizing in overall system design.

6b. Measured average power over 5 seconds at the rated Vrms using 12dB crest pink noise with recommended HPF and LPF. This measured power draw from the amplifier is useful for estimating amplifier sizing in overall system design.

7a. Measured Peak SPL over 5 seconds at rated Vrms using 12dB crest IEC noise with recommended HPF.

7b. MF and HF measured Peak SPL over 5 seconds at rated Vrms using 12dB crest pink noise. MF used recommended HPF and LPF. HF used recommended HPF and a 48dB BW LPF at the rated frequency range of the system. Total peak SPL is presented as a non-coherent summation.

The English version of this document is the only legally binding version.  
Translated versions are not legally binding and are for convenience only.

\*Specifications are subject to change without notice.

\*\*The term "bi-amp" used in this document refers to a mode of operation where two external amplifier channels are required. This is a passive loudspeaker and does not have built-in amplification.

