

CT 108

TWO-WAY, FULL-RANGE SPEAKER SYSTEM



The CT 108 is a passive speaker cabinet designed for voice and full-range applications. Its dual-function housing enables it to serve as an FOH speaker as well as a stage monitor. The hallmarks of the CT 108 are its speech intelligibility, extraordinary phase linearity and considerable dynamic range. It was developed principally for near-field applications requiring excellent vocal reinforcement. The CT 108 is available in left and right versions (CT 108 L, CT 108 R). For applications demanding enhanced bass response, the HK AUDIO subwoofer CT 118 Sub is recommended.

The CT 108 may be operated with or without a controller. For best audio results, we recommend using the HK AUDIO DSM 2060 Controller or HK AUDIO Digital Field Controller (DFC).



TECHNICAL SPECIFICATIONS

Power-handling nominal: 200 W RMS
 Power-handling program: 400 W
 Power-handling peak: 800 W
 Recomm. amplifier power: 1200 W RMS / 4 Ohms

Frequency response -10 dB: 90 Hz – 19 kHz
 Frequency response +/- 3 dB: 100 Hz – 19 kHz

Coverage: 90° x 60° / 60° x 90° CD Horn, rotatable
 Sensitivity 1W@1m 1): 101 dB
 Max. SPL calculated 1): 130 dB 2)
 Max. SPL peak 1): 129 dB
 Max. SPL 1): 128 dB @ 10% THD (200 Hz – 5 kHz)
 Nominal impedance: 16 Ohms

Low/ mid woofer: 8"
 High frequency driver: 1", 2" voice coil
 Crossover frequency: 1.8 kHz, 12 dB/ octave
 Crossover modes: passive

Connectors: 2x Speakon® NL 4
 Enclosure: 12-mm (1/2"), 9-ply birch plywood
 Angles up: 45° (monitor application)
 Finish: Black acrylic lacquer
 Grille: Metal grille with acoustic foam
 Handles: –
 Rigging hardware: 9x M8 threaded bushing
 Pole mount: – (optional)

Weight: 8 kg / 17.6 lbs.
 Dimensions (w x h x d): 24.7 cm x 40.6 cm x 23.1 cm
 9-3/4" x 16" x 9-1/4"

Optional accessories: MS/1 Mounting yoke, MS/2 Pole mount adapter, MS/3 TV spigot, MS/4 Cluster plate, M8 eyebolt, Touring flightcase (4x CT 108)

1) Based on half space conditions
 2) Based upon peak power capacity

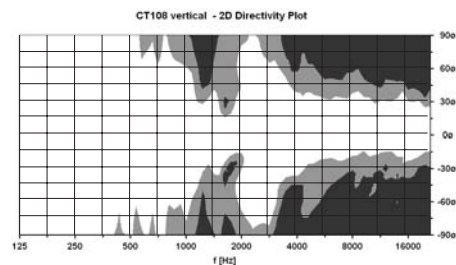
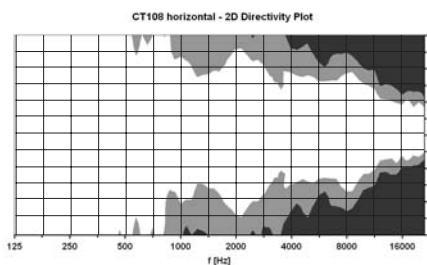
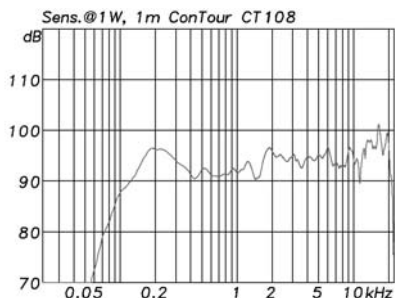
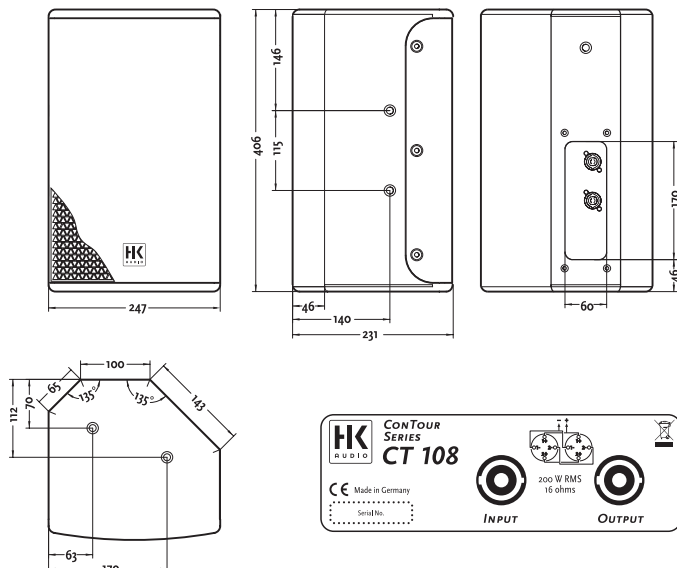
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Enclosure details: The CT 108 enclosure is constructed of 12-mm, 9-ply birch plywood. The dual-function housing is 24.7 cm wide, 40.6 cm high and 23.1 cm deep, and weighs 8 kg. The surface is finished in black water-repellent acrylic lacquer. The front baffle is protected by a steel grille. The enclosure is fitted with a total of nine threaded M8 bushings with pairs in the top, bottom, right and left panels, and one on the rear for attaching an additional eyebolt. A 360° L-mounting yoke and a 35-mm pole mount are optionally available.

Electrical and acoustical data: The CT 108 features a direct-loaded 8" speaker and a 1" high-frequency driver with a 90° x 60° CD horn. The horn, which is designed to fit a square opening, can be rotated a quarter turn for an alternative coverage pattern of 60° x 90°. Frequency response extends from 100 Hz to 19 kHz (+/- 3 dB). Nominal power handling is 200 watts RMS at 16 Ohms. An internal passive crossover divides the signal at 1.8 kHz with a slope of 12 dB per octave. Axial sensitivity is 101 dB, measured under half-space conditions at 1 watt @ 1 metre. Maximum SPL at a distance of one metre is 122 dB (also in half-space).

Connectors: Connectors are located out of harm's way on a countersunk panel on the back of the CT 108. This panel offers two Speakon® NL 4 jacks, both of which are wired to each other in parallel. Pin assignments are pin 1+ = mid/high +, pin 1- = mid/high -, pin 2+ = sub +, pin 2- = sub 2-.

Directivity, CT 108: The following charts depict horizontal and vertical directivity at various frequencies using sound pressure isobars of -6 dB and -12 dB.



Architectural Specifications, CT 108

The professional two-way speaker system shall render audio signals with consistently natural sound and considerable dynamic range, and shall be capable of use either as a full-range cabinet or as a mid/high unit in combination with the CT 118 Sub or HK AUDIO COHEDRA™ subwoofers. It shall be loaded with an 8" speaker mounted in a precision-tuned bass reflex enclosure and a 1" high-frequency driver with a 2" voice coil connected to a pivoting 90° x 60° / 60° x 90° constant-directivity horn. The housing shall be finished with black acrylic lacquer and shall be constructed of 12-mm birch plywood in such a way that it can be positioned at an angle of 45° for monitor applications. The cabinet shall be equipped with nine threaded M8 bushings to accept accessory fittings. An impact-resistant steel grille backed with acoustical foam shall protect the front baffle. An internal passive crossover shall be used having a crossover point of 1.8 kHz and a slope of 12 dB per octave. System frequency response shall vary no more than +/- 3 dB from 100 Hz to 19 kHz.

The system shall be capable of producing a sound pressure level of 101 dB on axis at 1 metre with a power input of 1 watt (under half-space conditions), and of reaching a peak output level of 128 dB at 10% THD (also in half-space). Power handling capacity shall be 200 watts RMS, and nominal impedance shall be 16 Ohms.

The two-way speaker system shall be the HK AUDIO CT 108.

Connectors: 2x Neutrik NL 4 Speakon®

Dimensions (W x H x D): 24,7 x 40,6 x 23,1 cm

Weight: 8 kg

Accessories: Mounting yoke, Pole mount adapter, M8 eyebolts, Touring flightcase (4x CT 108)

Type: HK Audio® CT 108