The TCS-35 is a compact trapezoidal passive 2-way loudspeaker for use in a variety of fixed installations such as pubs, cafés, bars, restaurants and clubs.

It consists of an 8" low frequency driver and a 1" titanium high frequency tweeter matched with a third order internal passive crossover network in a trapezoidal cabinet.

The TCS-35 features a wide (120° x 120°) dispersion pattern which allows it to be used in a variety of nearfield, background and surround sound applications. It can also be used as a delay speaker in a larger sound reinforcement system.

The cabinet is constructed from 5/8" (15mm) birch plywood, and it is finished in black semi-matt textured paint (other colours

optionally available). M6 fixing points are provided on the top of the cabinet to permit rigging the enclosure with standard eyebolts. Additional M6 fixing points are provided on the rear of the cabinet for use with optional Turbosound WB-100 and CB-100 brackets, and OmniMount™ and Powerdrive mounting hardware.

A single Neutrik Speakon NL4MP connector and a 4-way terminal strip allow input and loop in/loop out connections to the loudspeaker.

Recommended complementary products: TCS-108, TCS-215, TCS-118 subwoofer enclosures LMS-D6, LMS-D4 loudspeaker management systems



FEATURES

Compact enclosure

Wide dispersion

Full range response

OmniMount™ compatible

APPLICATIONS

Surround sound

Background sound

Pubs and bars

Cafés and restaurants

Theme parks



DIMENSIONS (HxWxD)	385mm x 274mm x 286mm (15.2" x 10.8" x 11.3")

NET WEIGHT 9.7kgs (21.3 lbs)

COMPONENTS 1 x 8" (203mm) LF driver, 1 x 1" (25mm) HF tweeter

FREQUENCY RESPONSE¹ 55Hz - 18kHz ±4dB

NOMINAL DISPERSION² 120°H x 120°V @ -6dB

POWER HANDLING 200 watts r.m.s., 400 watts program, 500 watts peak

Recommended amplifier: 400 watts @ 8 ohms

SENSITIVITY³ 89dB, 1W @ 1m

MAXIMUM SPL 115dB continuous⁴, 121dB peak⁵

CROSSOVER Internal passive crossover network at 3k5Hz

NOMINAL IMPEDANCE 8 ohms

CONSTRUCTION 15mm (5/8") birch plywood; rebated, pinned and glued. Finished in black semi-matt textured

paint

GRILLE Black powder coated perforated steel

CONNECTORS Neutrik Speakon NL4MP, wired pin1+: positive, pin1-: negative

Four way terminal strip for loop in/loop out connection

FLYING HARDWARE (8) M6 internal fixing points for standard eyebolts, WB-100 and CB-100 brackets,

OmniMount[™] and Powerdrive brackets

OPTIONS Optional colours: TurboBlue™, white, raw birch plywood

SPARES AND LS-8070 8" (203mm) LF loudspeaker
ACCESSORIES RC-8070 Recone kit for LS-8070

RC-8070 Recone kit for LS-8070
TW-509 1" (25mm) HF tweeter
MG-35 Replacement grille

Notes

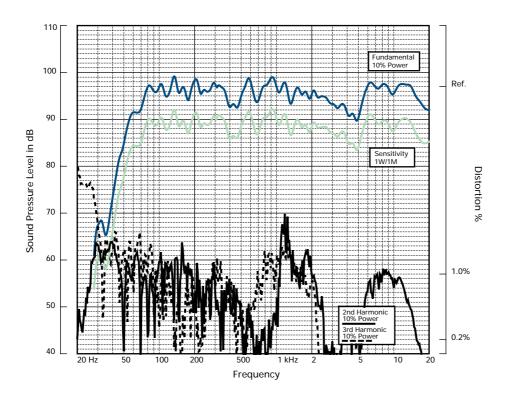
¹Measured on axis

²Average over stated bandwidth

³Average over stated bandwidth

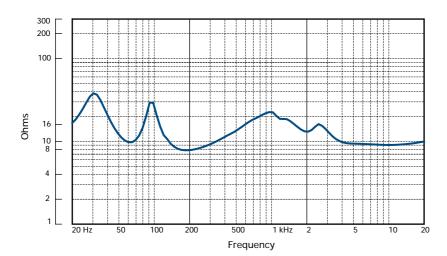
⁴Unweighted diode-clipped pink noise. Measured in a half space environment

⁵Verified by subjective listenting tests of familiar program material, before the onset of perceived signal degradation



FREQUENCY RESPONSE

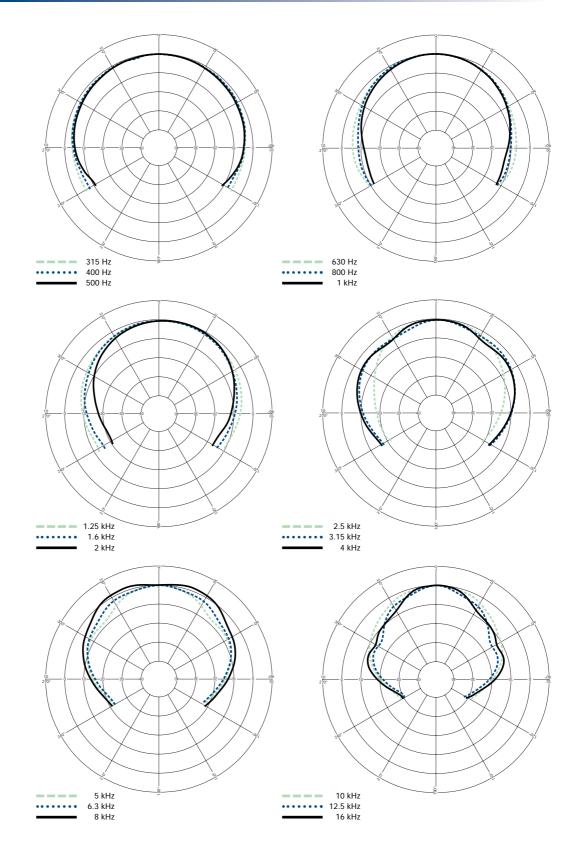
IMPEDANCE

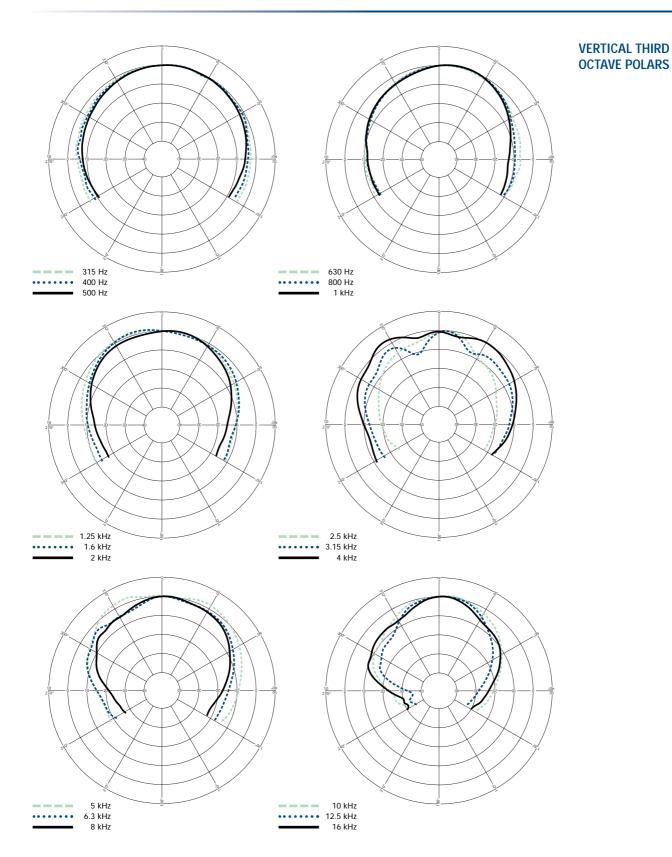


Impedance A constant current circuit was used to measure the impedance. Frequency response The frequency response shown was obtained by feeding a swept sine wave through the system in a half space environment. The position of the microphone was vertically on-axis at a distance of 2 metres, then scaled to represent 1 metre. 2nd & 3rd Harmonic Distortion Distortion measurements were obtained using an Audio Precision harmonic distortion analysis system and comply with AES recommendations for enclosure measurement (AES paper ANSI S4-26-1984). Data Conversion All graphs were digitally generated using the APEX custom software system, designed to translate data derived from Audio Precision 'System One' test equipment into AutoCAD™. This program enables graphical information to be plotted to a high degree of accuracy.

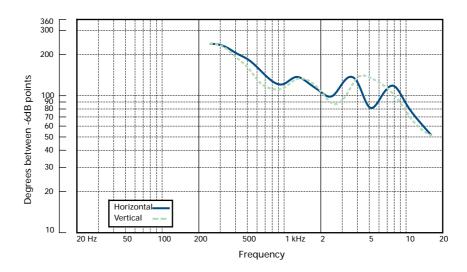
NOTES ON MEASUREMENT CONDITIONS

HORIZONTAL THIRD OCTAVE POLARS

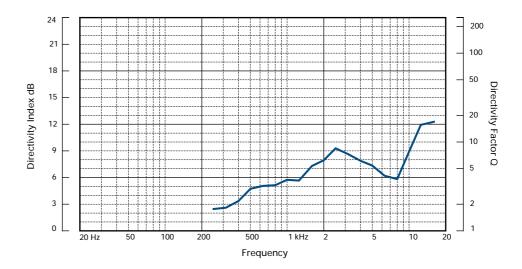




BEAMWIDTH



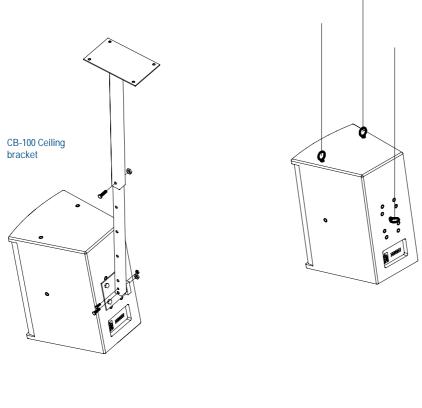
DIRECTIVITY

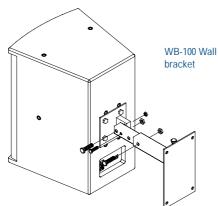


The TCS-35 is fitted with M6 internal fittings on the top and rear of the cabinet which enable it to be permanently suspended from ceilings using standard eyebolts. Downward inclination is achived by means of the rear fixing point.

INSTALLATION HARDWARE

The cabinet is also fitted with M6 internal fittings on the rear for use with optional WB-100 wall brackets and CB-100 brackets as shown. The enclosure can be angled and tilted to suit the exact requirements of sound coverage within the venue. The TCS-35 is also compatible with OmniMount™ and Powerdrive brackets.





datasheet TCS-35

TCS SERIES ENGINEERING INFORMATION

ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The system shall be of the two-way passive type consisting of one 8" (203mm) low frequency loudspeaker and one 1" (25mm) high frequency tweeter. Performance specifications of a typical production unit shall meet or exceed the following: Frequency response, measured with swept sine wave input, shall be flat within ±4dB from 55Hz - 18kHz. Nominal dispersion, at -6dB points, shall average 120°H x 120°V. Nominal impedance shall be 8 ohms. Power handling shall be 200 watts r.m.s., 400 watts program, 500 watts peak. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth shall be 89dB. Maximum SPL (peak) measured with music program input at stated amplifier power shall be 119dB. Dimensions: 385mm x 274mm x 286mm (15.2" x 10.8" x 11.3"). Net weight: 9.7kg (21.3lbs). The loudspeaker system shall be the Turbosound TCS-35. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

DIMENSIONS

