

ACS-40TS

Ultra-Compact Two-Way Ceiling Speaker

ADORN

Features

- High performance two-way ceiling speaker
- 4" (100mm) LF driver and 0.75" (19mm) HF dome tweeter
- Very wide 180° conical coverage pattern reduces speaker count required for even coverage
- 70V/100V multitap line transformer or 16-ohm low-impedance operation
- Low and high-frequency overload protection
- UL94V-0 rated baffle with zinc-plated steel backcan
- Quick release, bezel-less grille
- Tile rails and C-ring included
- 5-year warranty



Applications

- Retail outlets
- Cafes, bars and restaurants
- Museums and Houses of Worship
- Hotels, casinos and concourses
- Transportation facilities
- Boardrooms and reception areas



As part of the ADORN commercial loudspeaker series, the ACS-40TS is an ultra-compact, two-way ceiling speaker designed for background and foreground applications that require premium performance and cost competitiveness. It brings full-frequency response, consistent coverage and intelligibility to a wide range of architectural environments — from hotels and concourses to retail outlets, bars and restaurants.

Comprising a 4" (100mm) LF driver and a 0.75" (19mm) silk-dome tweeter, the ACS-40TS produces 108dB peak output at 1 metre and has a high-fidelity sonic character ideal for both music and speech reproduction. Its ported design delivers strong bass that extends down to 73 Hz.

The very wide 180° conical coverage of the ACS-40TS makes it particularly suitable for low ceilings and reduces the number of speakers required for even coverage — leading to a reduction in installation cost. It features a shallow backcan for installation in ceilings with a minimum cavity depth.

It incorporates a high-quality transformer for 70V/100V line operation, with transformer taps selected by a rotary switch accessible behind the powder-coated, perforated steel grille. The switch also provides for 16-ohm low impedance operation — enabling four or more speakers to be driven in parallel from a single amplifier channel. For full-bandwidth protection, the low and high-frequency sections are individually against overload by auto-resetting thermal fuses.

The grille is bezel-less for a clean look, its bayonet fitting is easy to remove without the use of tools and finished in white (RAL9016) to match ADORN on-wall loudspeakers and may also be painted to blend with any décor.

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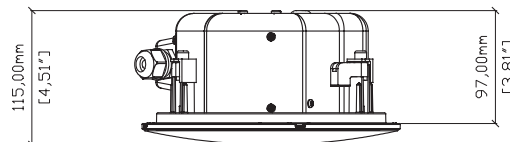
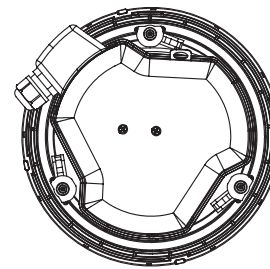
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Technical Specifications

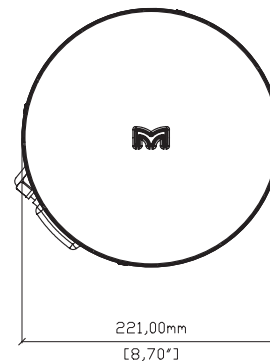
TYPE	Ultra-compact, passive two-way ceiling speaker, ported bass reflex
FREQUENCY RESPONSE (1)	106Hz-20kHz ± 3dB -10dB @ 73Hz
DRIVERS	LF: 4" / 1" high-temp voice coil, coated paper cone, rubber surround, ferrite motor, pressed steel chassis HF: 0.75" silk dome, neodymium motor
RATED POWER (2)	40W AES, 160W peak
RECOMMENDED AMPLIFIER	VIA2004 (for low-impedance operation)
SENSITIVITY (4)	86dB / 1W(4V) / 1m
MAXIMUM SPL (9)	108dB peak
NOMINAL IMPEDANCE	16 ohms
DISPERSION (-6dB)	180° conical up to 10kHz
CROSSOVER	3.5 kHz passive (LF and HF auto-resetting fuses)
TRANSFORMER TAPS	70V: 20w / 10w / 5w / 2.5w 100V: 20w / 10w / 5w
RECOMMENDED HIGH-PASS FILTER	75Hz 24dB/oct
ENCLOSURE	UL 94V-0 rated ABS baffle with steel backcan
FINISH	Baffle and grille: RAL9016 white Backcan: zinc plated
GRILLE	Perforated steel, powder-coated, bayonet fitting
CONNECTORS	Ceramic connector (in and link) located behind fire-retardant steel cover
ACCESSORIES (included)	2 tile rails C-ring backing plate Cut-out template
DIMENSIONS	(OD) 221mm x (D) Back Can 97mm, (D) Inc. Grille 115mm (OD) 8.7in x (D) Back Can 3.81in, (D) Inc. Grille 4.51in
HOLE CUT-OUT DIMENSION	197mm (7.75") diameter
WEIGHT	2.2kg (4.8lbs)

Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.



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