

## Install

# CVS 6 (EN 54)

6" Coaxial In-Ceiling Loudspeaker for Installation Applications (EN 54 Certified)

- Coaxial full range ceiling loudspeaker for installation applications
- 60 Watts continuous, 240 Watts peak power
- 6" mineral loaded polypropylene driver with nitrile rubber surround for enhanced durability and long-term reliability
- 0.75" ferrofluid cooled soft dome neodymium high frequency driver
- Wide constant directivity dispersion for optimum coverage
- EN 54-24 certified for fire detection and fire alarm systems
- UV and weather resistant UL 94 V-0 ABS front with plated steel fire can enclosure
- Multiple transformer taps for 70 V and 100 V line systems or 6 Ohm direct input
- Low insertion loss 60 W line transformer with easily accessible tapping switch
- Semi matt white finish fits unobtrusively in any environment
- Powder coated perforated steel mesh grille with dust protection
- Mounting C-ring and ceiling tile rails included
- Phoenix\* connector with steel cover and EN 54 compliant strain relief clamping mechanism for fire rated cable
- 10-Year Warranty Program\*
- Designed and engineered in the U.K.

The CVS 6 (EN 54) is an in-ceiling 240-Watt full range loudspeaker engineered to provide superb audio performance in both background and foreground music sound systems. Ideally suited for a wide variety of applications, from restaurants and hotels to houses of worship and businesses of all types, the CVS 6 (EN 54) offers the power handling, wide frequency response and low distortion more typically found in a studio reference monitor than a ceiling loudspeaker. The resulting sound is warm, with a nuanced and pristine clarity that envelopes the listener – without intruding. EN 54-24 certification for fire detection and fire alarm systems makes the CVS 6 (EN 54) the perfect choice where safety is a top priority.



## Exceptional Sound and Reliability

The design comprises a 152 mm (6.00") mid bass driver with a coaxially mounted 19 mm (0.75") high frequency section mounted in an injection moulded semi matt white front baffle made of UV/weather resistant UL 94 V-0 ABS material that fits unobtrusively into any environment. The mineral loaded polypropylene cone material and nitrile rubber surround enhance durability and long-term reliability. The CVS 6 (EN 54) is perfect for applications where exceptional sonic quality and reliability are a requirement.

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### Comprehensive Installation Package

Supplied with an integral plated steel enclosure, Phoenix\* connector with steel cover, and an EN 54 compliant strain relief clamping mechanism for fire rated cable, the CVS 6 (EN 54) satisfies the vast majority of installation application requirements. Input is via a low insertion loss 60 W line transformer with multiple taps for 70 V and 100 V line systems or 6 Ohm direct input. Installation is quick and easy with two tile support rails and one C-ring included in the package. A plaster (mud) ring is available as an optional accessory.



### You Are Covered

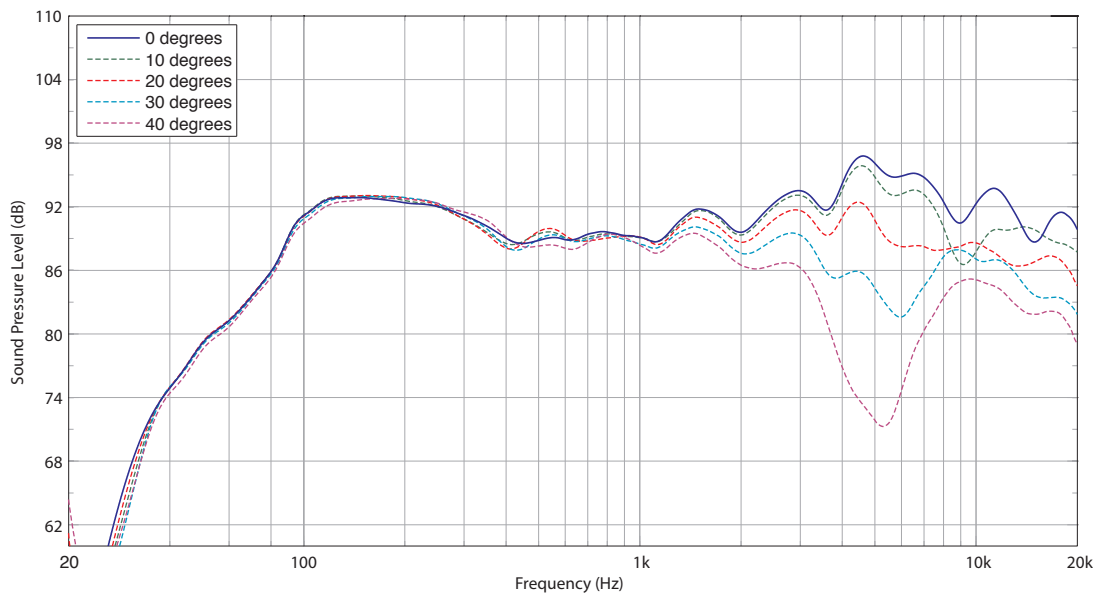
We always strive to provide the best possible Customer Experience. Our products are made in our own [MUSIC Tribe](#) factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world. As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous [Warranty program](#).

Install

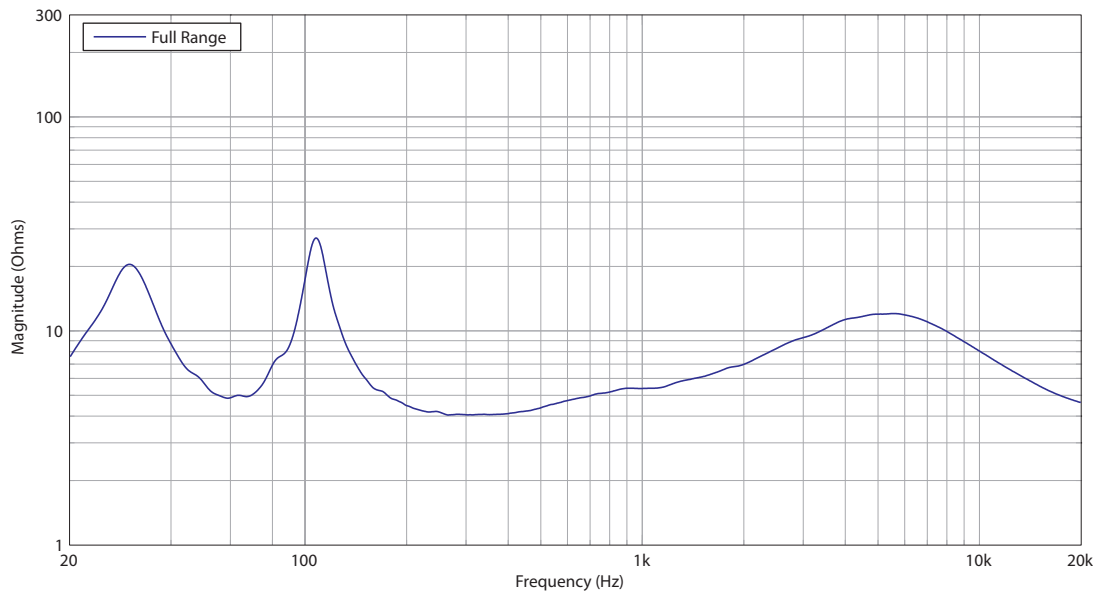
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## Frequency Response Sensitivity 1 W / 1 m



## Impedance

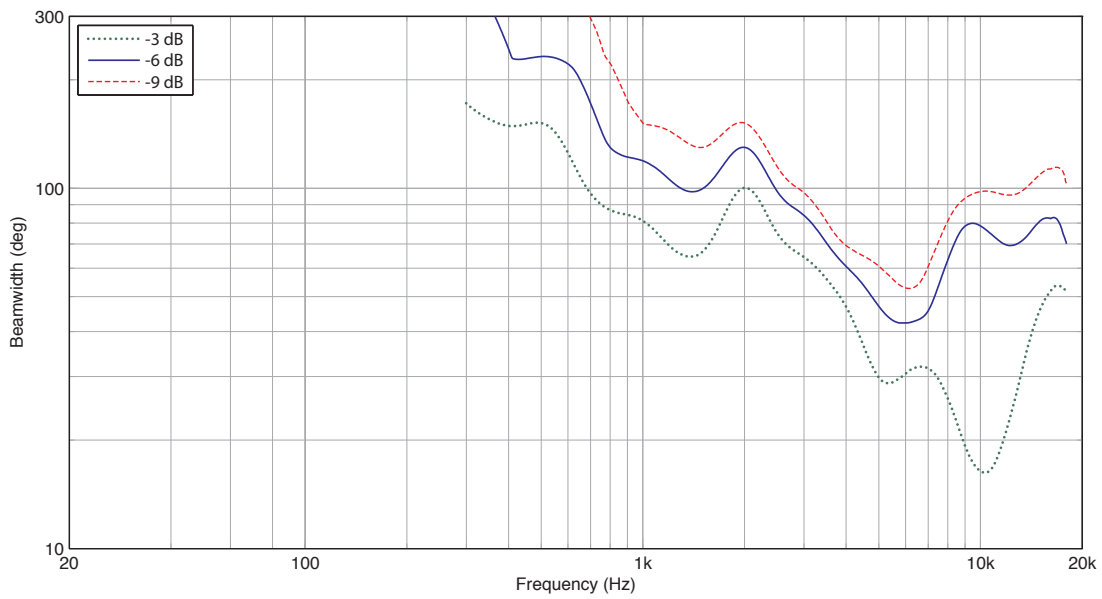


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## Horizontal Beamwidth

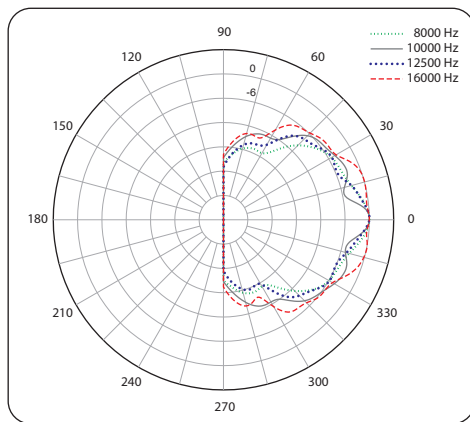
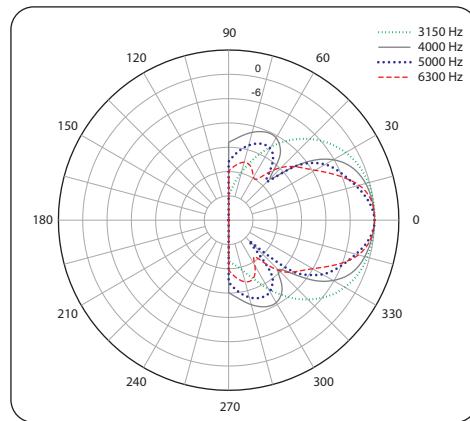
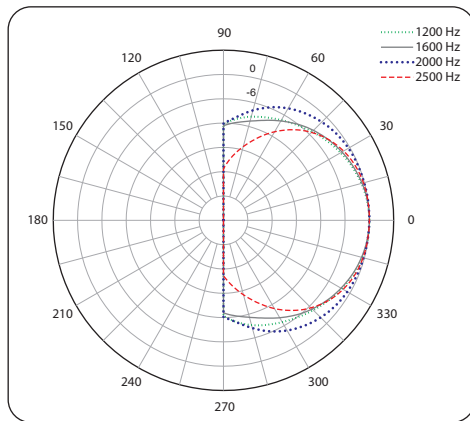
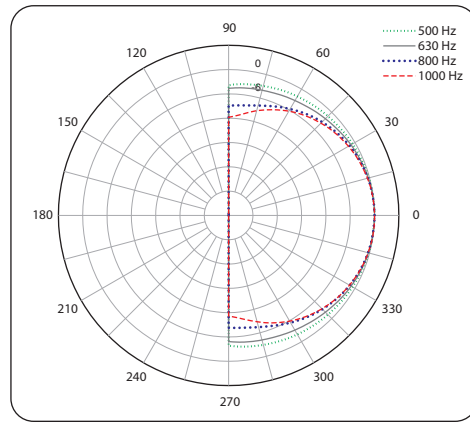
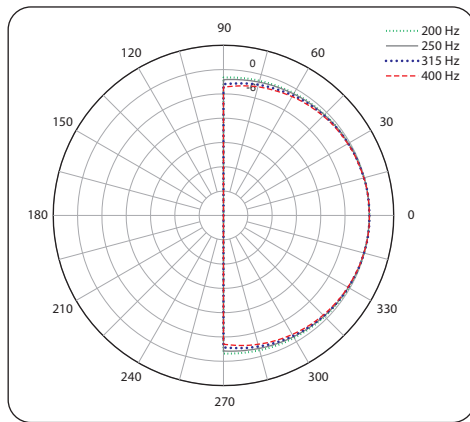


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### Polar Plots

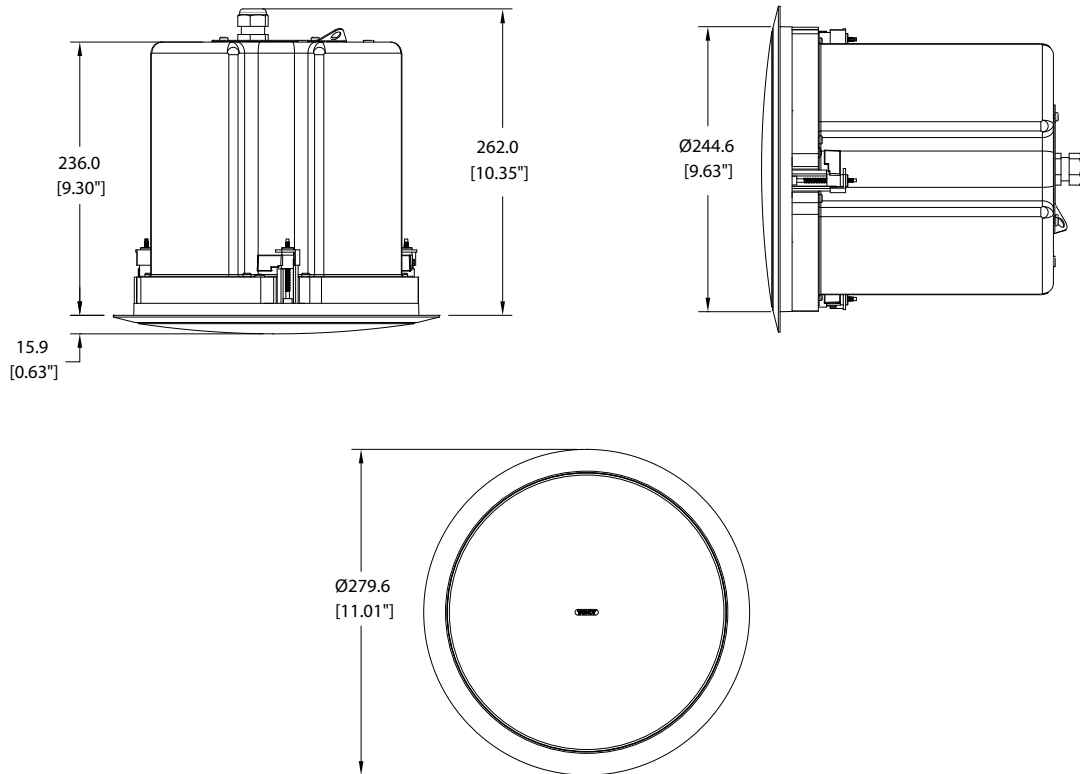


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## Dimensions



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## Technical Specifications

### Performance

Frequency response (-3 dB)	79 Hz – 21 kHz
Frequency response (-10 dB)	60 Hz – 24 kHz
Rated sensitivity (1 W, Lo Z)	91 dB
Sensitivity as per EN54 (4 m, through transformer)	77.1 dB
Directivity factor (Q)	7.7 averaged 1 kHz to 6 kHz
Directivity index (DI)	8.0 averaged 1 kHz to 6 kHz
<b>Power handling</b>	
Average	60 W
Programme	120 W
Peak	240 W
Recommended amplifier power	120 W @ 6 Ω
Nominal Impedance (Lo Z)	6 Ω
Maximum SPL as per EN54 (4 m, through transducer)	95 dB
<b>Rated maximum SPL (1 m, Lo Z)</b>	
Average	109 dB
Peak	115 dB
<b>Transformer taps</b>	
70 V	60 W (83 Ω) / 30 W (165 Ω) / 15 W (270 Ω) / 7.5 W (528 Ω) / OFF & low impedance operation
100 V	60 W (165 Ω) / 30 W (270 Ω) / 15 W (528 Ω) / OFF & low impedance operation
Crossover point	2.5 kHz

### Coverage Angles

500 Hz	175° horizontal, 175° vertical
1 kHz	175° horizontal, 165° vertical
2 kHz	140° horizontal, 125° vertical
4 kHz	70° horizontal, 66° vertical

### Transducers

Low Frequency	150 mm (6") mineral loaded cone material
High frequency	19 mm (0.75") coaxially mounted

### Physical

Enclosure	Blind mount (BM)
Back can	Painted steel
Baffle	Reflex loaded UL 94V-0 rated ABS
Grille	Steel, with weather resistant coating
Safety features	Rear enclosure safety ring for load-bearing bond
Clamping design	Security toggle clamp
Connectors	Euroblock-style connector with screw terminals (with input cover and cable gland supplied)
<b>Dimensions</b>	
Bezel diameter	280 mm (11.0")
Front of ceiling to rear of back can	236 mm (9.30")
Front of ceiling to top of cable clamp	262 mm (10.35")
Hole cutout diameter	250 mm (9.8")
Net weight	5.8 kg (12.8 lbs)
Included accessories	C-ring, tile-bridge kit, paint mask, cutout template
Optional accessories	Plaster (mud) ring
Packed quantity	2

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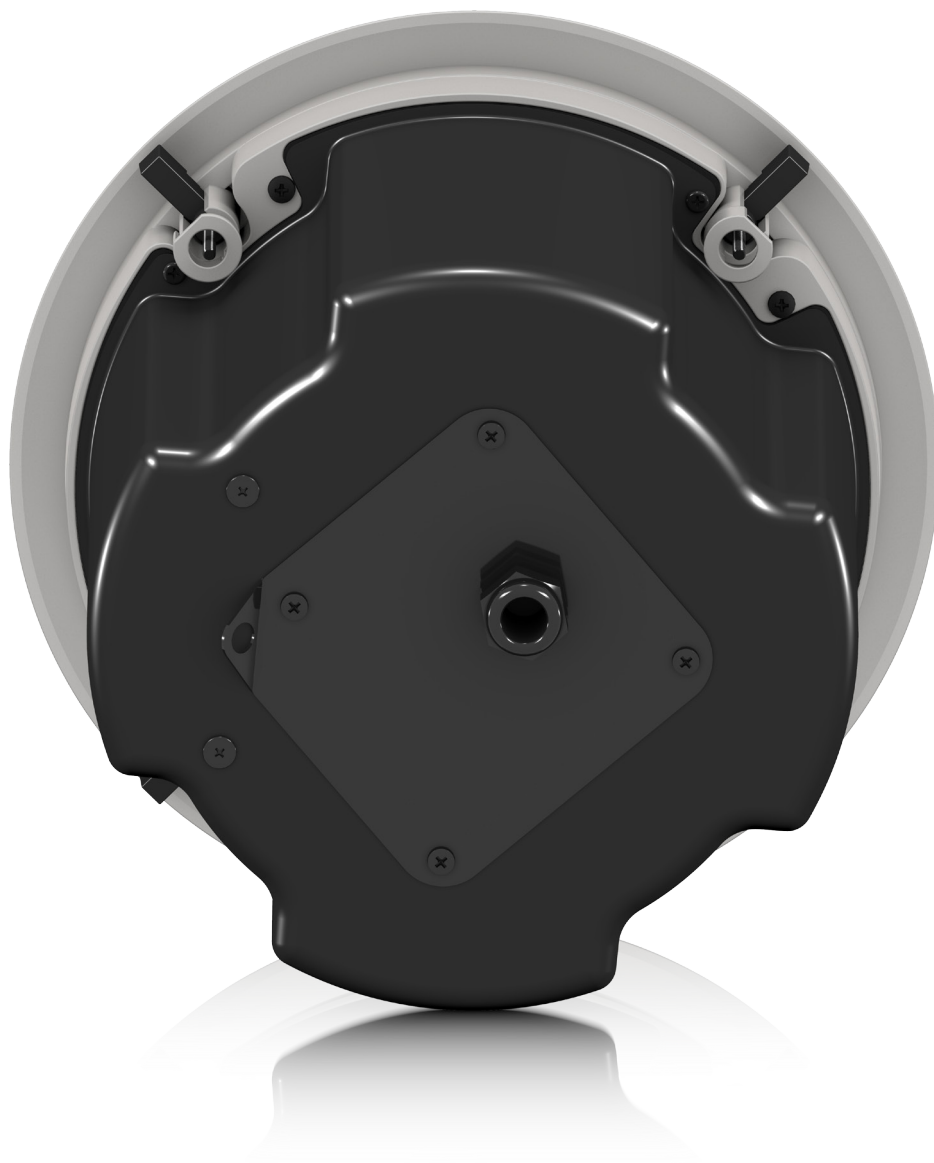
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MUSIC Group Manufacturing PH Ltd  
17A Brunswick Street Hamilton HM 10 Bermuda

DoP No. CPR-CVSEN54-02      MADE IN CHINA

EN54-24: 2008 TYPE A



CoC No. 1438-CPR-0537      1438

LOUDSPEAKER FOR VOICE ALARM SYSTEMS FOR FIRE  
DETECTION AND FIRE ALARM SYSTEMS FOR BUILDINGS

### SPEAKER: CVS 6 (EN 54)

WIRING	PASSIVE
1+ / 2-	INPUT
3- / 4+	LINK
INPUT	POWER
70 V LINE	7.5, 15, 30, 60 W
100 V LINE	15, 30, 60 W
6 Ω	120 W PROGRAM

# TANNOY

DESIGNED AND ENGINEERED IN THE U.K.

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