



TANNOY CVS 8 Coaxial In-Ceiling Loudspeaker User Guide

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TANNOY

Quick Start Guide



CVS 8/CVS 6/CVS 4

8/6/4" Coaxial In-Ceiling Loudspeaker for Installation Applications

CVS 4 MICRO

4" Coaxial In-Ceiling Loudspeaker with Shallow Back Can for Installation Applications

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at musictribe.com/warranty.

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Introduction

Thank you for purchasing this Tannoy Ceiling loudspeaker. This product range is suited for high-level music and speech reinforcement applications requiring exceptional sonic quality with uncompromised reliability.

Unpacking

Every Tannoy product and accessory is carefully inspected before packing. After unpacking, please inspect your product to make sure no damage has occurred in transit. In the unlikely event of any damage, would you please notify your dealer immediately and retain your shipping carton, as your dealer may ask you to return the faulty unit to them for inspection. Each CVS loudspeaker is packed in pairs and provided with the following accessories as standard; C Ring, tile-bridge kit, grille, cut-out template, and paint mask. A plaster (mud) ring is also available as an optional extra.

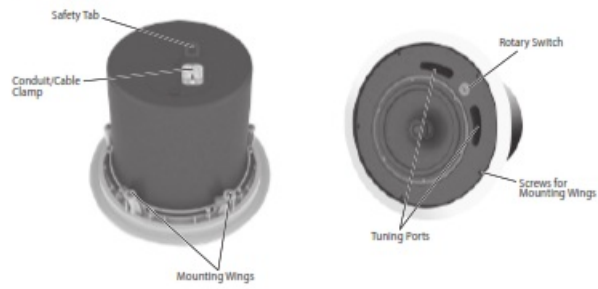
Safety Notices

Some regional construction codes require the use of a secondary method of securing loudspeakers in ceiling to provide security of a backup support. A secondary support line should be attached from the safety loop on the rear of the product, to a source point on the ceiling. Please consult the relevant construction codes in your region. When using a power driver to install the product it is essential to use the correct torque level settings to avoid over tightening and damage to the ceiling material or clamps. Recommended torque setting: 1.5 Nm. Tannoy will not be held responsible for any damages caused by the improper installation of these loudspeakers. Electrical Safety Notice: To comply with the standard UL1480, metal-clad flexible conduit (BX) is required for connection to the terminal block for proper earth grounding.

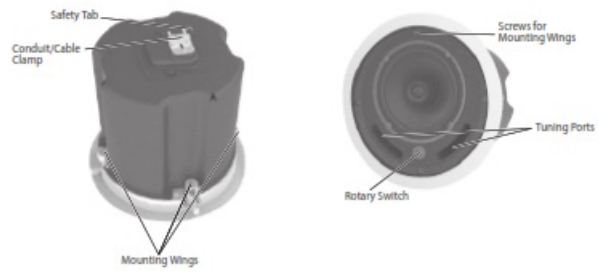
SAFETY NOTE: In order to comply with the relevant fire safety regulations (ie. BS 5839: 1998), it is required that in the event of fire, that failure of the circuit to which the loudspeaker is connected does not occur before evacuation of the building is complete. Suitable measures include: – a) use of terminal blocks (for connection to primary) with a melting point of not less than 650°C, for example constructed from ceramic materials; b) use of terminal blocks of a lower melting point but protected with thermal insulation; c) use of terminal blocks such that, on melting, an open-circuit or a short-circuit does not occur.

Product Feature Identification

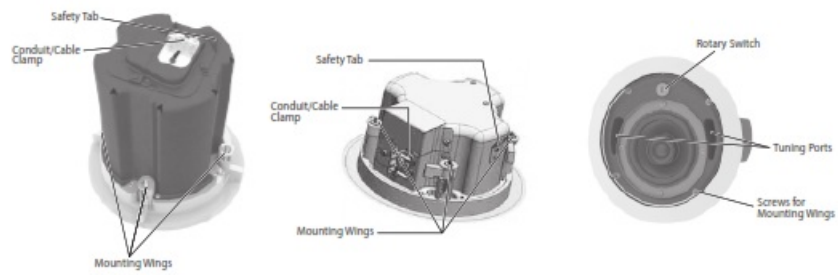
CVS 8



CVS 6



CVS 4/CVS MICRO



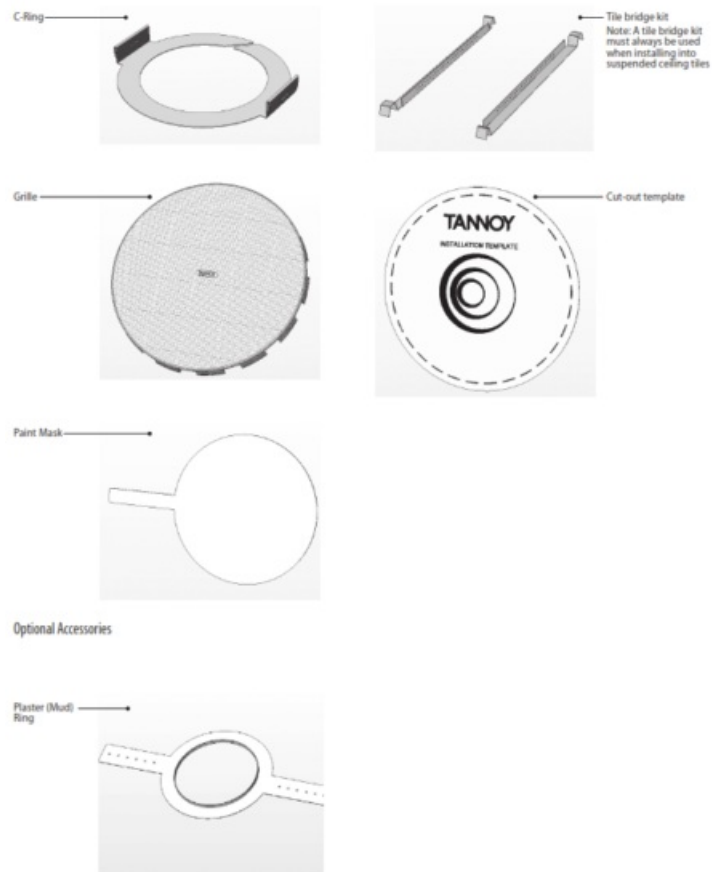
Accessories

Standard Accessories

CVS 8 Hole Cutout Size: 320 mm

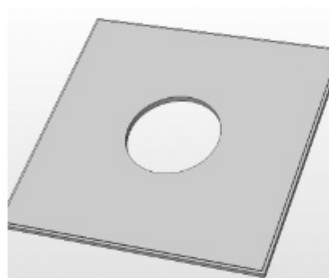
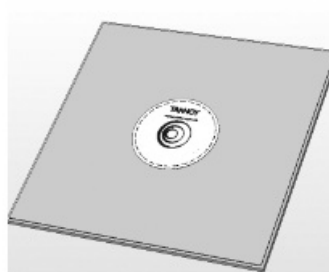
CVS 6 Hole Cutout Size: 250 mm

CVS 4 / CVS 4 MICRO Hole Cutout Size: 180 mm

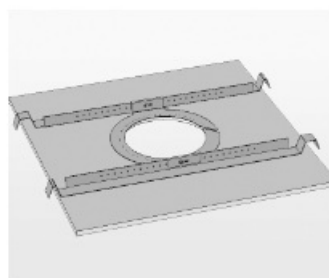


Installation Guide for Suspended Ceilings

1. Remove the ceiling tile from its frame and place it on a flat surface. Mark the cut-out area on the ceiling tile by tracing around the template provided.

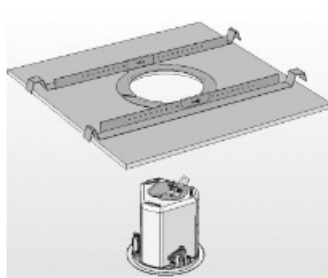


2. Cut out the hole in the ceiling tile using a circular saw or pad saw.



3. Place the C-ring and tile bridge on top of the ceiling panel, align the C-ring over the hole, and screw the C-ring

to the tile bridge using the fixings provided.

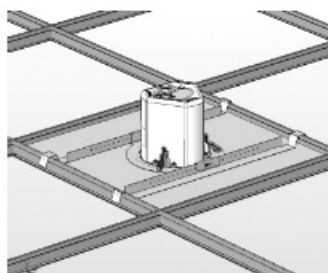


- Slide the speaker assembly through the hole and turn the screws on the front of the speaker to extend the mounting wings. Tighten the screws until a firm grip is achieved.

If using a power driver, Tannoy recommends a torque setting of 1.5 Nm.

DO NOT OVERTIGHTEN!

- Slide the tile panel back into the suspended ceiling. The tile bridge ends will catch over the railings, supporting the weight of the speaker.



- Connect a Secondary Support Line to safety tab. Some construction codes require use of this secondary support point, which should connect to a separate secure support point using a suitable support line. Consult construction codes in your region.

Installation Guide for SheetRock (Plasterboard) Ceilings

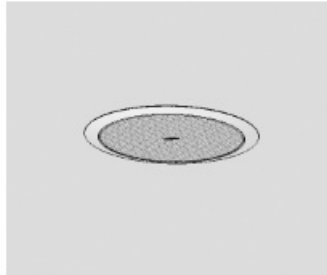
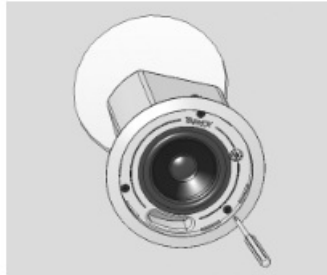
- Mark the cut-out area on the ceiling by tracing around the template provided.



- Cut out the hole in the ceiling using a circular saw or pad saw, then slide the C-ring into the ceiling, aligning it over the cut-out hole.
- Go to page 15 for wiring and set-up instructions then return to point 4 below.
- Slide the speaker assembly through the hole and turn the screws to extend the mounting wings. Tighten the screws until a firm grip is achieved.

If using a power driver, Tannoy recommends a torque setting of 1.5 Nm.

DO NOT OVERTIGHTEN!

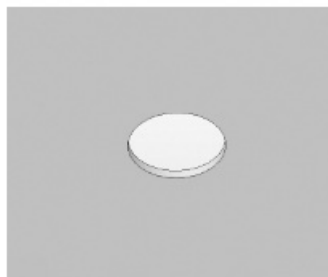
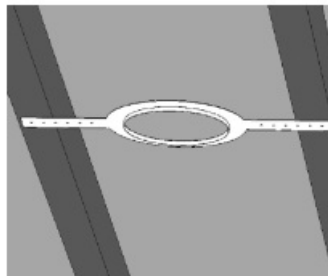


5. Connect a Secondary Support Line to safety tab. Some construction codes require use of this secondary support point, which should connect to a separate secure support point using a suitable support line. Consult construction codes in your region.
6. Insert grille by pushing it onto the speaker.

Installation Instructions for Optional Plaster Ring

An optional plaster (mud) ring bracket is available from Tannoy. This bracket is designed to be pre-installed into newly constructed, non-suspended ceilings.

1. Nail or screw the plaster ring to the joists.

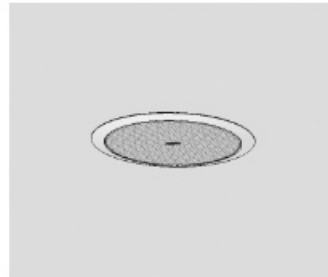
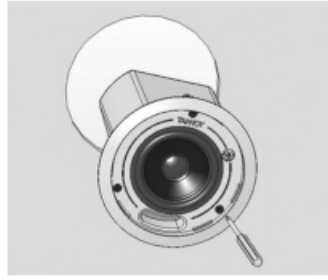


2. Lay the speaker wiring to where the speaker will be fitted and complete the plastering work on the ceiling.
3. Cut out the hole in the ceiling using a circular saw or pad saw.
4. Go to page 15 for instructions on wiring then return to point 5 below.
5. Slide the speaker assembly through the hole and turn the screws to extend the mounting wings.

Tighten the screws until a firm grip is achieved.

If using a power driver, Tannoy recommends a torque setting of 1.5 Nm.

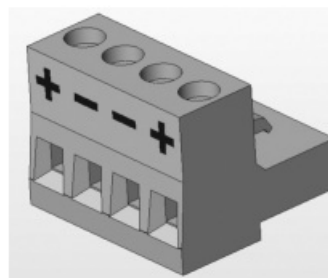
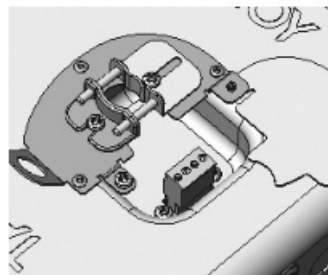
DO NOT OVERTIGHTEN!



6. Connect a Secondary Support Line to the safety tab. Some construction codes require use of this secondary support point, which should connect to a separate secure support point using a suitable support line. Consult construction codes in your region.
7. Insert grille by pushing it onto the speaker.

Wiring and Setting Up

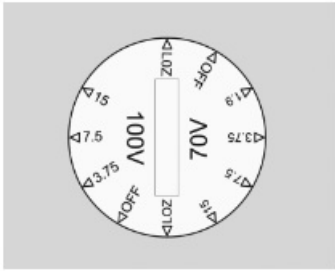
1. Open the wiring cover at the back of the speaker can to access the Euro-type connector plug and socket.



2. For connection to an amplifier, use pins 1 and 2:
 - Pin 1 is positive
 - Pin 2 is negativeFor connection to additional speakers in a distributed line, pins 3 and 4 are in parallel where:
 - Pin 3 is negative
 - Pin 4 is positive
3. Close the wiring cover and tighten both screws on the cable clamp. Use the rotary switch located on the front of the unit to select whether you wish to use the speaker in a low-impedance or distributed-line application.

THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A

70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.

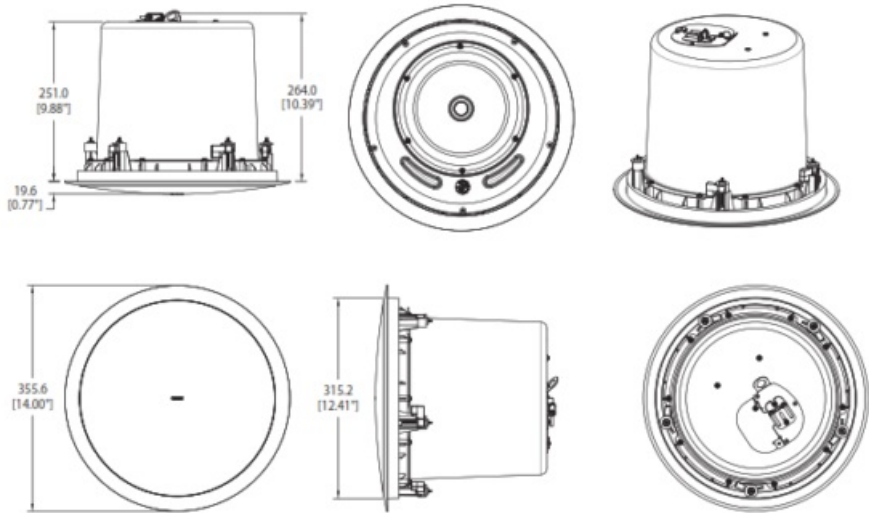


- 4. The CVS 4 is fitted with a 15 W transformer. When used in distributed-line systems, the transformer can be tapped at 15 W, 7.5 W and 3.5 W, with an additional 1.9 W tapping for 70.7 V line systems.
- 5. The CVS 4 is fitted with a 30 W transformer. When used in distributed-line systems, the transformer can be tapped at 30 W, 15 W and 7.5 W, with an additional 3.75 W tapping for 70.7 V line systems.
- 6. The CVS 6 is fitted with a 60 W transformer. When used in distributed-line systems, the transformer can be tapped at 60 W, 30 W, and 15 W, with an additional 7.5 W tapping for 70.7 V line systems.

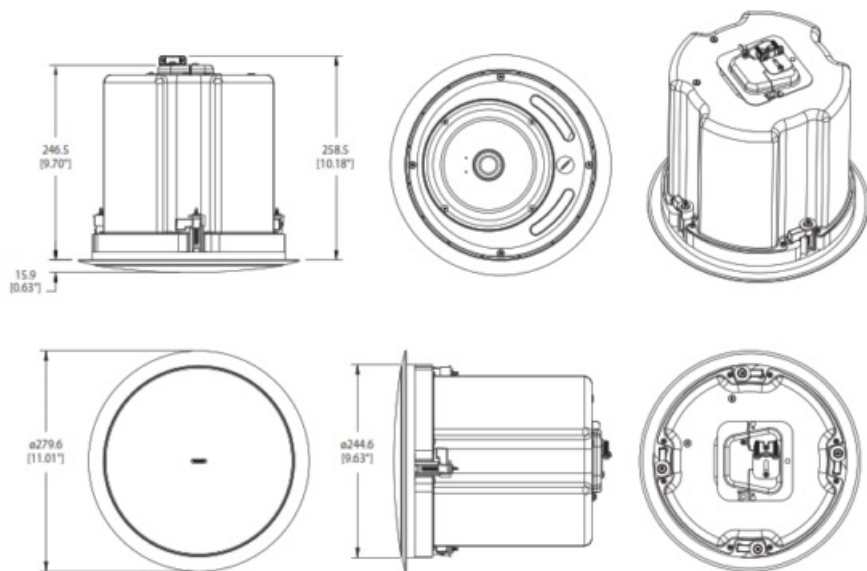


- 7. The CVS 8 is fitted with a 60 W transformer. When used in distributed-line systems, the transformer can be tapped at 60 W, 30 W, and 15 W, with an additional 7.5 W tapping for 70.7 V line systems.

CVS 8 Dimensions
CVS 8 Hole Cutout Size: 320 mm

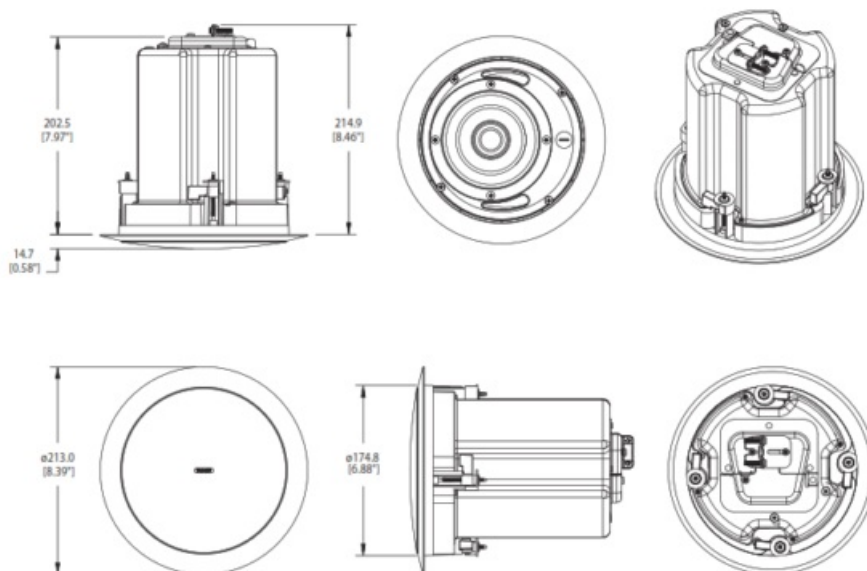


CVS 6 Dimensions
CVS 6 Hole Cutout Size: 250 mm



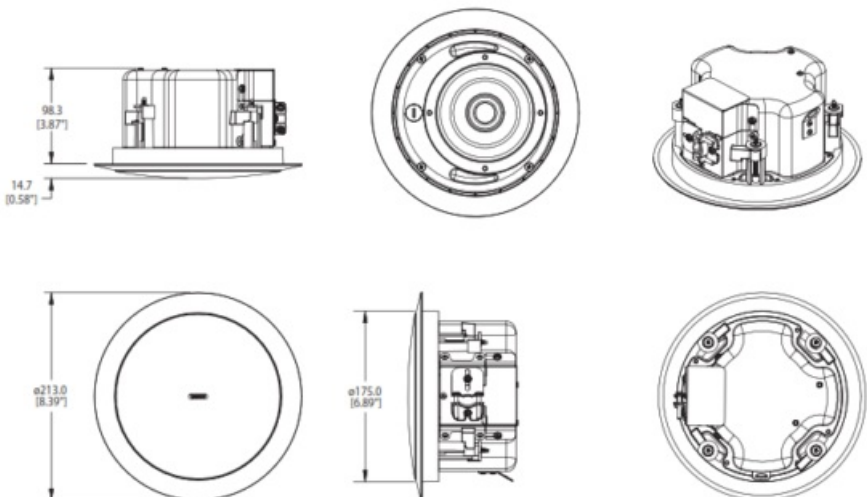
CVS 4 Dimensions

CVS 4 Hole Cutout Size: 180 mm



CVS 4 MICRO Dimensions

CVS 4 MICRO Template Cutout Size: 180 mm



Painting

If desired, the grille and baffle panel may be painted to match the surrounding décor. Painting the baffle:

- Carefully mask off the driver assembly using the paint mask provided to ensure that the paint does not come into contact with the cone and roll surround
 - Apply several thin coats of paint – this will provide a better finish than one overly thick coat
- Painting the grille:
- Carefully remove the acoustically transparent foam from the reverse side of the grille
 - Paint the grille and then replace the foam – several thin coats of paint will provide a better finish than one overly thick coat
 - Re-bond the foam to the grille over the entire area using a light spray adhesive to avoid audible resonances

Specifications

System	CVS 8	CVS 6	CVS 4		CVS 4 MICRO
Frequency response (-3 dB) ¹	79 Hz – 21 kHz	79 Hz – 21 kHz		85 Hz – 19 kHz	110Hz – 19kHz
Frequency response (-10 dB) ¹	60 Hz – 24 kHz	60 Hz – 24 kHz		77 Hz – 22 kHz	90Hz – 22kHz
System Sensitivity (1 W @ 1 m) ²	93 dB (1 W = 2.45 V for 6 Ohms)	91 dB (1 W = 2.45 V for 6 Ohms)		87 dB (1 W = 2.45 V for 6 Ohms)	
Nominal Coverage Angle	90 degrees conical			90 degrees conical	
Coverage Angle (1 kHz to 6 kHz)	84 degrees conical	93 degrees		102 degrees	
Directivity Factor (Q)	14.7 averaged 1 kHz to 6 kHz	7.7 averaged 1 kHz to 6 kHz		5.6 averaged 1 kHz to 6 kHz	
Directivity Index (DI)	11.7 averaged 1 kHz to 6 kHz	8 averaged 1 kHz to 6 kHz		7.1 averaged 1 kHz to 6 kHz	
Rated Maximum SPL	111 dB (average) 117 dB (peak)	109 dB (average) 115 dB (peak)		103 dB (average) 109 dB (peak)	

Power Handling³

Average Programme Peak	60 W 120 W 240 W	60 W 120 W 240 W	40 W 80 W 160 W
Recommended Amplifier Power	120 W @ 6 Ohms	120 W @ 6 Ohms	80 W @ 6 Ohms
Nominal Impedance	6 Ohms	6 Ohms	6 Ohms

Transformer Taps (via front rotary switch)

Low Frequency	Coaxial 200 mm (8.00") mineral loaded cone material	150 mm (6.00") mineral loaded polypropylene ICT TM	100 mm (4.00") mineral loaded cone material
High Frequency	19 mm (0.75")	19 mm (0.75")	19 mm (0.75")

Transducers

Low Frequency	Coaxial 200 mm (8.00") mineral loaded cone material	150 mm (6.00") mineral loaded polypropylene ICT TM	100 mm (4.00") mineral loaded cone material
High Frequency	19 mm (0.75")	19 mm (0.75")	19 mm (0.75")

Physical Enclosure

The back can Baffle Grille	Zinc-plated steel Reflex loaded UL 94V-0 rated ABS Steel, with a weather-resistant coating	Zinc-plated steel Reflex loaded UL 94V-0 rated ABS Steel, with a weather-resistant coating	Zinc-plated steel Painted steel Reflex loaded UL 94V-0 rated ABS Steel, with a weather-resistant coating
Safety Features	Safety ring located at rear of the enclosure for a load-bearing safety bond	Safety ring located at the rear of the enclosure for a load-bearing safety bond	Safety ring located at rear of the enclosure for a load-bearing safety bond
Clamping Design	Security toggle clamp	Security toggle clamp	Security toggle clamp

Back Can Options

Cable Entry Options	Cable clamp & squeeze connector for conduit up to 22 mm	Cable clamp & squeeze connector for conduit up to 22 mm	Cable clamp & squeeze connector for conduit up to 22 mm	
Connectors	Removable locking connector with screw terminals with “loop through” facility	Removable locking connector with screw terminals with “loop through” facility	Removable locking connector with screw terminals with “loop through” facility	
Safety Agency Ratings	UL-1480, UL-2043, CE	UL-1480, UL-2043, CE	UL-1480, UL-2043, CE	
Hole Cutout Diameter	320 mm (12.60")	250 mm (9.84")	180 mm (7.08")	
Dimensions Bezel diameter	355.6 mm (14.00")	279.5 mm (11.01")	213.0 mm (8.39")	
Front of the ceiling to rear of the back can	251.0 mm (9.88")	246.5 mm (9.70")	98.3 mm (3.87")	202.5 mm (7.97")
Front of the ceiling to top of the safety loop	264.0 mm (10.39")	258.5 mm (10.18")	46.5mm (1.83")	214.9 mm (8.46")
Net Weight (ea)	6.6 kg (14.6 lbs)	5.7 kg (12.6 lbs)	3.6 kg (7.9 lbs)	2.8 kg (6.2 lbs)
Included Accessories	C Ring, tile bridge, paint mask, cutout template, grille	C Ring, tile bridge, paint mask, cutout template, grille	C Ring, tile bridge, paint mask, cutout template, grille	
Optional Accessories	Plaster (mud) ring	Plaster (mud) ring	Plaster (mud) ring	

Notes

1. Average over-stated Bandwidth. Measured in an IEC baffle in an Anechoic Chamber
2. Unweighted Pink noise input, measured at 1 m on axis
3. Long term power handling capacity as defined in EIA – 426B test

Other important information

Important information

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at musictribe.com. Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at musictribe.com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.
3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating

without exception.




Hereby, Music Tribe declares that this product is in compliance with Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC, and this passive product is not applicable to EMC Directive 2014/30/EU, LV Directive 2014/35/EU.

Full text of EU DoC is available at <https://community.musictribe.com/>



EU Representative: Music Tribe Brands DK A/S

Address: Ib Spang Olsens Gade 17, DK – 8200 Aarhus N, Denmark

Documents / Resources

 Quick Start Guide CVS 8CVS 6CVS 4 Mount bracket for ceiling & wallmount for installation applications CVS 4WCSD Coaxial In-Ceiling Loudspeaker with Surface Mount Clip for installation TANNOY	TANNOY CVS 8 Coaxial In-Ceiling Loudspeaker [pdf] User Guide CVS 8, CVS 6, CVS 4, Coaxial In-Ceiling Loudspeaker
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References

-  [Music Tribe](#)
-  [Music Tribe](#)

Manuals+.