CDD User Guide

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MARTIN AUDIO
LONDON

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Introduction

The Martin Audio CDD Series is ultra-compact and provides high performance sound in pubs, bars, restaurants, retail premises, nightclubs, conference facilities, theatres, educational institutions, places of worship, museums, exhibition centres and cruise ships.

CDD speakers deliver the highest quality audio over a wide area, with consistent coverage throughout the venue (page 8).

The cabinets are styled to be architecturally unobtrusive. The CDD 5 has a rigid ABS moulded enclosure. The CDD 6, 8 and 10 have rigid, moulded UPM Formi enclosures. UPM Formi is a fibre composite material combining stiffness with excellent damping properties. The larger models CDD 12 and 15 have rugged marine grade birch plywood enclosures, and the CDD 8, 10, 12 and 15 have plywood baffles. All models feature flush, acoustically transparent steel grilles. Standard enclosures are either white or black or you can choose any RAL colour to order.

The CDD range uses two-way, full-range co-axial drivers, incorporating Martin Audio's exclusive Differential Dispersion horn technology. The speakers have passive crossovers optimised for the drivers, removing the need for bi-amping. The crossover frequency is between 1.6 kHz and 2.5 kHz, depending on the model.

The CDD range (page 5) consists of six full-range units named after the driver size, from 5 inch up to 15 inch. For applications that require low frequency extension you can supplement the speakers with Martin Audio SX subwoofers. You can use the speakers individually or in multiples to suit a wide variety of applications. All CDD speakers (apart from the marine versions) have link connectors to allow daisy-chain wiring. Note that for daisy chaining weatherised CDD 8, 10, 12 and 15, see Weatherised connections (page 14).

Special versions of the CDD 5, 6, 8 and 10 are available for 70/100 V line operation (page 12); we call these TX models. These versions include a high-quality tapped transformer and a choice of power settings, allowing you to use the speakers with 70 or 100 V line distribution systems. These systems are commonly used for announcements and background music in office complexes, hotels and similar large buildings. Note that with the TX versions of the CDD 5 and 6, you can switch off the transformer (for low impedance), but with the TX versions of the CDD 8 and 10, you cannot. For further details, see 70/100 V line versions (page 12).

CDD speakers are also available in weather resistant or marine grade models. The weather resistant models (page 43) are designed for outdoor locations where there is shelter from direct exposure to the elements. The marine grade models (page 44) are designed for saltwater environments such as cruise ships and beach-side locations.

There is a wide range of CDD installation accessories, allowing you to mount the speakers on walls or ceilings (page 18). The mounting hardware is suitable for first and second fix (page 18) construction-industry conventions. For the three largest models, the CDD 10, 12 and 15, you can fly the speakers using eye bolts (page 36).

This user guide provides details of the CDD features and options. It also includes installation instructions for the various mounting options.

CDD models

The CDD range consists of six full-range systems:

Model	LF driver	HF driver	LF -3dB point	Power rating
CDD 5	5” (125 mm)	0.7” (19 mm)	100 Hz	100 W
CDD 6	6.5” (165 mm)	1” (25 mm)	80 Hz	150 W
CDD 8	8” (200 mm)	1” (25 mm)	70 Hz	200 W
CDD 10	10” (250 mm)	1” (25 mm)	65 Hz	250 W
CDD 12	12” (300 mm)	1” (25 mm)	62 Hz	300 W
CDD 15	15” (380 mm)	1.4“ (35 mm)	55 Hz	400 W

Models available

	CDD 5 and 6	CDD 8 and 10	CDD 12 and 15
Black	Yes	Yes	Yes
White	Yes	Yes	Yes
RAL (to order)	Yes	Yes	Yes
Weatherised black		Yes	Yes
Weatherised white		Yes	Yes
Marine black		Yes	Yes
Marine whte		Yes	Yes
70/100 V line black		Yes[1]	
70/100 V line white		Yes[1]	
70/100 V line RAL (to order)	Yes[2]		
Weatherised 70/100 V line black	Yes[2]	Yes[1]	
Weatherised 70/100 V line white	Yes[2]	Yes[1]	
Marine 70/100 V line black	Yes[2]	Yes[1]	
Marine 70/100 V line white	Yes[2]	Yes[1]	

[1]With 70/100 V line CDD 8 and 10, you cannot switch off the transformer.

[2]With 70/100 V line CDD 5 and 6, you can switch off the transformer.

Accessories

	CDD 5, 6 and 8	CDD 10, 12 and 15
Wall bracket in black	Yes	Yes
Wall bracket in white	Yes	Yes
Ceiling bracket in black	Yes	
Ceiling bracket in white	Yes	
Yoke assembly in black		Yes
Yoke assembly in white		Yes
Eye bolts for flying		Yes

Model descriptions

CDD 5

The CDD 5 is a two-way passive micro speaker designed for discreet positioning in architectural installations such as bars, museums, foyers, concourses, exhibition centres and houses of worship. It features a unique, patent-protected 5” (125 mm) LF and 0.7” (19 mm) HF Coaxial Differential Dispersion driver in a rigid ABS moulded enclosure. We supply the CDD 5 with a dedicated omni-directional mounting bracket.

For details, see CDD 5 details (page 48).

CDD 6

The ultra-compact CDD 6 is a two-way passive loudspeaker system designed to fulfil the requirement for full-frequency dynamic performance from a very small enclosure. Featuring a 6.5” (165 mm) LF and 1” (25 mm) HF Coaxial Differential Dispersion driver, the extremely small size and sleek lines make it ideal for visibly unobtrusive applications. You can also use the CDD 6 as a fill system in conjunction with larger CDD Series models. With the addition of an SX subwoofer, it can produce surprisingly high levels of music program.

For details, see CDD 6 details (page 49).

CDD 8

The CDD 8 is an ultra-compact two-way passive loudspeaker system with an integrated 8” (200 mm) LF and 1” (25 mm) exit HF Coaxial Differential Dispersion driver. Its small size gives no indication of its high output capability. As a stand-alone loudspeaker, it has a multitude of applications and can also be incorporated as an infill loudspeaker in distributed systems using larger CDD models, such as the CDD 12 and CDD 15.

For details, see CDD 8 details (page 50).

CDD 10

The CDD 10 is a very compact two-way passive loudspeaker system with a 10” (250 mm) LF and 1” (25 mm) exit HF Coaxial Differential Dispersion driver. It is uniquely placed to meet the foreground requirements of music bars and clubs, as well as varied architectural applications that require upfront sound levels from a very compact enclosure. The CDD 10 combined with an SX subwoofer provides a small dancefloor system that is remarkably powerful for its size.

For details, see CDD 10 details (page 51).

CDD 12

The CDD 12 is a compact, passive two-way system designed for installations that require high output levels. The high-specification 12” (300 mm) LF and 1” exit HF Coaxial Differential Dispersion driver delivers perfect sound across the audience over medium-throw distances.

For details, see CDD 12 details (page 52).

CDD 15

Ideal for medium-to-large rooms, the CDD 15 is a very high-power, passive two-way system designed for installations that demand the ultimate in sonic performance from a single enclosure. It combines very high output capability with exceptional fidelity and coverage consistency. Its coaxial drive unit comprises a powerful 15” (380 mm) with 3” (75 mm) voice coil LF driver and a 1.4” (35 mm) exit HF compression driver with a 3” (75 mm) pure titanium diaphragm.

For details, see CDD 15 details (page 53).

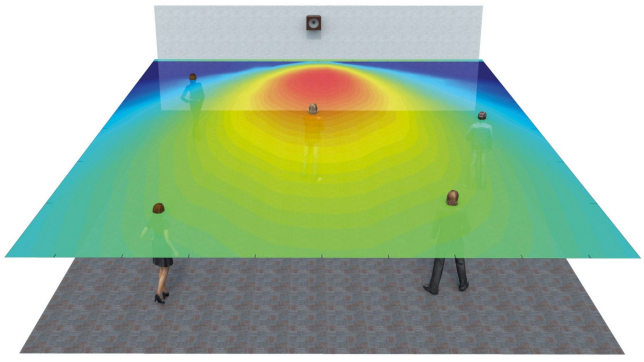
CDD coverage

CDD loudspeakers feature Martin Audio's unique, patent-pending Coaxial Differential Dispersion™ technology. CDD systems augment the 'point-source' benefits of coaxial drivers with the consistency of coverage of Differential Dispersion technology.

Non-coaxial systems can suffer from uneven frequency response in the crossover region because of interference between the LF and HF sections; depending on the listening position, this causes off-axis variations, particularly close to the loudspeaker. In contrast, coaxial systems aim to sum LF and HF contributions at all positions off-axis, even close-up.

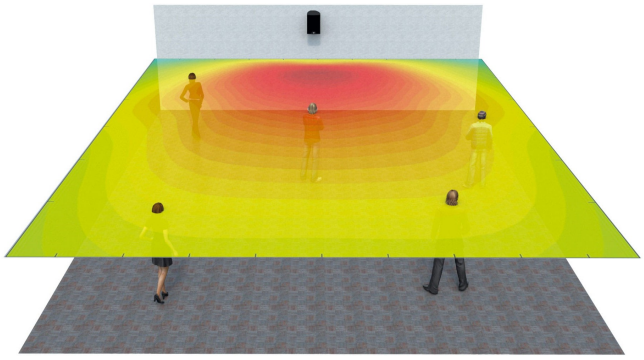
A disadvantage of conventional coaxial devices can be HF beaming, where the HF dispersion reduces at higher frequencies. This is primarily because the HF energy emerges through a narrow tube in the pole-piece of the magnet system. CDD Series coaxial devices overcome this by the use of a static waveguide that merges seamlessly with the unique cone shape. This maintains the dispersion pattern even at very high frequencies.

A Differential Dispersion horn has a trapezoidal dispersion pattern in both vertical and horizontal planes which covers the target area more evenly than a system with a conventional, fixed dispersion type horn. With a conventional horn, the speaker is usually placed above head height and aimed towards the centre of the audience. This produces an imperfect coverage pattern that misses out some areas, particularly side areas close to the loudspeaker.



Conventional coverage

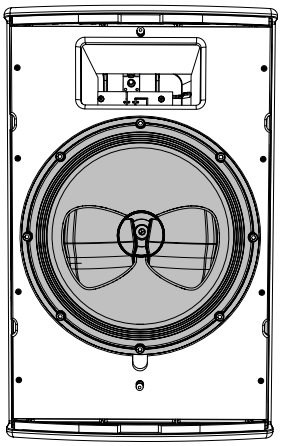
In contrast, the Coaxial Differential Dispersion system produces a rectangular coverage pattern extending to all corners of the audience area, while achieving wide horizontal coverage close to the loudspeaker.

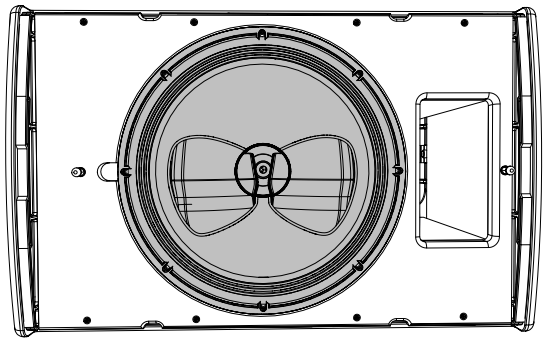


CDD coverage

Landscape or portrait

You can install CDDs in landscape or portrait. However, you must orient the CDD coaxial driver as shown below, with the “butterfly wings” biased towards the bottom of the enclosure.





We supply CDD speakers ready for installation in portrait.

- To install in landscape, you must rotate the coaxial driver through 90°.
- To install in upside-down portrait, you must rotate the coaxial driver through 180°.

If you mount a speaker with the wrong driver orientation, the speaker won't give adequate coverage and won't perform properly.

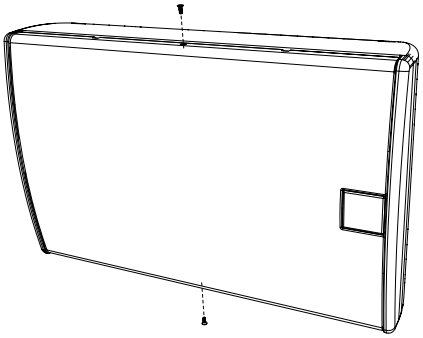
As a reminder of the correct driver orientation, there is a diagram on the rear of the cabinet.

Grille removal

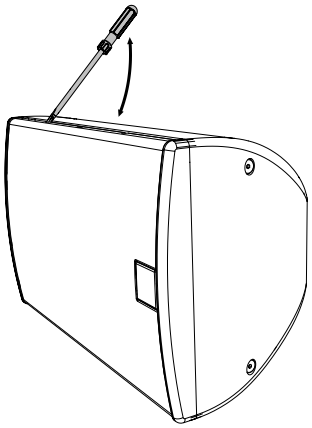
The CDD loudspeakers have a sprung grille that clips into slots in the sides of the cabinet, making it quick and easy to remove.

To remove the grille

1. Place the speaker on a suitable surface.
2. For CDD 10, 12 or 15, remove the two screws that hold the grille in place.

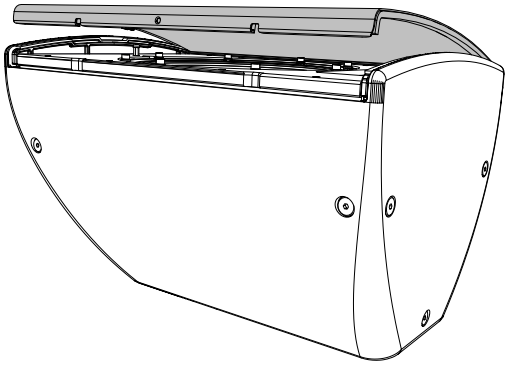


   For CDD 5, 6 or 8, there are no screws to undo.
3. Insert an appropriately sized flat-bladed screwdriver into one of the two gaps at the side of the grille.



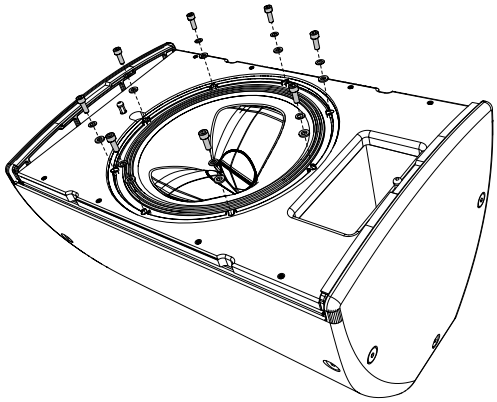
4. Gently push the handle down slightly to ease the grille out of the slot.
5. Lift the handle slightly to ease the grille forward so that it doesn't clip straight back into the slot.

6. Repeat this process with the second gap and ease the grille out of the slot all the way up one side of the cabinet. The grille should now pop out of the slot.

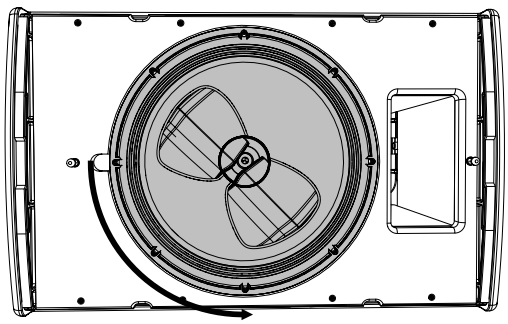


To rotate the driver

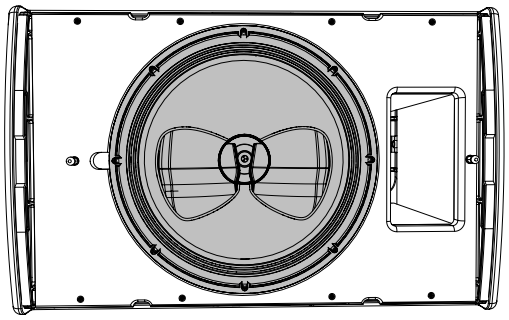
1. Remove the grille (page 9).
2. Remove the screws securing the driver to the baffle board using a No. 2 Pozidriv screwdriver.



3. Carefully lift out the driver assembly and rotate it.



For landscape, rotate the driver by 90°. Note that you can put the flat side of the speaker (the top) to the left or right and which you choose changes the maximum pan angles to the left and right. For details, see CDD tilt and pan angles (page 45).



For upside-down portrait, rotate the driver by 180°.

4. Refit the screws removed in step 2.
5. For landscape, rotate the badge. For details, see Badge rotation (page 10).

   For upside-down portrait, rotate the grille. You don't need to rotate the badge.
6. Replace the grille. For details, see Grille refitting (page 11).

Badge rotation

We supply CDD speakers with the Martin Audio badge in portrait mode. To install in landscape, you need to rotate the badge by 90°. To install in upside-down portrait, you just rotate the grille; there is no need to rotate the badge.

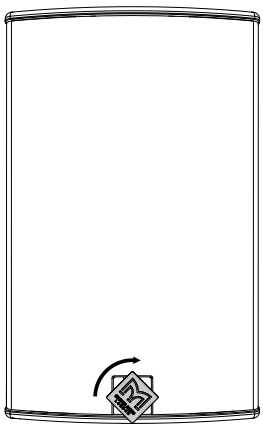
- For CDD 5, 6 and 8, you need to remove the badge to rotate it.
- For CDD 10, 12 and 15, you can rotate the badge while it is held in place.

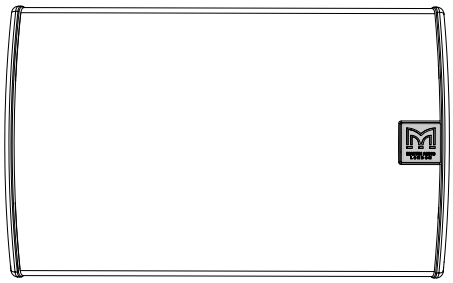
To rotate the badge for CDD 5, 6 or 8

1. Remove the grille. For details, see Grille removal (page 9).
2. Push down on the mounting spigot on the back of the grille until the badge pops out. You may need to press with a screwdriver handle or something similar.
3. Rotate the badge and push it back firmly so that it won't fall out later.

To rotate the badge CDD 10, 12 and 15

1. Remove the grille. For details, see Grille removal (page 9).
2. Push the spigot on the back of the badge so that the badge lifts up.
3. Rotate the badge and release the spigot so that the badge settles back in place.
4. Once you've installed the speaker, remove the plastic scratch-protection film from the badge.





Grille refitting

This is the reverse of the grille removal process.

To refit the grille

1. Insert one side of the grille into the slot on one side of the cabinet. Make sure the grille is completely engaged in the slot.
2. Push the front of the grille with the flat of your hand so that the other edge of the grille clips into place.
3. Make sure that the grille is engaged in the slot by pushing the edge of the grille back starting at the top or bottom. You may need to do this a little at a time, working down the length of the grille until it pops into place.
4. For CDD 10, 12 or 15, replace the two screws that hold the grille in place.

Connecting CDDs

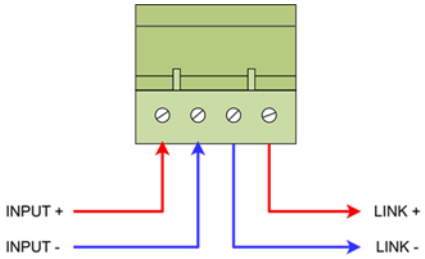
All CDDs (except CDD8-TX, CDD10-TX and marine models) have a pluggable low-profile four-pin Phoenix-style connector. This is mounted on a recessed rear panel, allowing for a neat wiring job with no protruding connectors.

- For CDD 5, 6 and 8, this is a 12 A connector (replacement part PCX00006).
- For CDD 10, 12 and 15, this is a 20 A connector (replacement part PCX00008).

If you are using first and second fix (page 18) stages, at first fix you can wire the cables to the connectors and at second fix you can plug the connectors into the speakers.

To connect the Phoenix-style connectors

1. Take hold of the lower section of the connector (the part that sticks out) and ease it downwards until it unplugs from the upper section.



2. Wire the speaker cable to the connector using the two screw fittings on the left:
   - Connect positive from the amplifier to the leftmost pin (labelled **INPUT +**).
   - Connect negative from the amplifier to the second pin (labelled **INPUT –**).
3. To daisy-chain the amplifier output to further speakers on the same circuit, use the two screw fittings on the right:
   - Connect negative for the next speaker to the third pin (labelled **LINK –**).
   - Connect positive for the next speaker to the rightmost pin (labelled **LINK +**).
4. Plug the connector back into the speaker.

Cable specification

Use high-quality, fine-stranded two-core speaker cable. The cable jacket specification depends on the installation type, the application and local regulations. For example, there could be a requirement to use low smoke hazard cables.

The cable gauge depends on the length of the cable:

- For cables up to 30 m, use 2.5 mm^2 or greater.
- For cables over 30 m, use 4.0 mm^2 or greater.

Impedance

All CDDs, except the 70/100 V line (TX) models (page 12), have a nominal impedance of 8 ohms.

- With CDD5-TX and CDD6-TX, you can switch off the transformer so that the nominal impedance is 8 ohms.
- With CDD8-TX and CDD10-TX, you can't switch off the transformer.

70/100 V line versions

For constant voltage systems, we have 70/100 V line versions of the CDD 5, 6, 8 and 10, but not the CDD 12 and 15. These versions contain a transformer, and we call them TX versions:

- CDD5-TX
- CDD6-TX
- CDD8-TX
- CDD10-TX

With the 70/100 V line versions of CDD, you need to choose the required power rating at each speaker:

- For the CDD5-TX and CDD6-TX (standard, weatherised and marine), use the rotary switch behind the grille (page 13).
- For the standard and weatherised versions of CDD8-TX and CDD10-TX, use the connections at the back (page 13).
- For the marine versions of CDD8-TX and CDD10-TX, use the colours of the cable wires at the back (page 14).

For details of amplifiers for 70/100 V systems, see Amplifiers for 70/100 V systems (page 39).

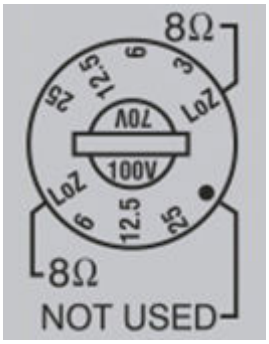
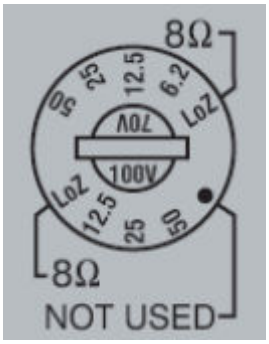
Note that high levels of low-frequency signals can cause transformer core saturation, and this can cause distortion and sound unpleasant. If you are driving 70/100 V line loudspeakers with bass-heavy programme material at high levels, we strongly recommend that you include a high-pass filter in the signal path. Many industrial power amplifiers designed for 70/100 V line operation have selectable fixed filters for this purpose. If your amplifiers don't have these, you can add them using a system controller such as the Martin Audio DX4.0, DX0.4 or DX0.6.

For details of system controllers, see System controllers (page 41).

To choose the power rating for CDD5-TX and CDD6-TX

1. Remove the grille (page 9).
2. Rotate the power rating switch, shown below.

   The available power ratings are different for the CDD5-TX and CDD6-TX as shown in the tables below.
3. Replace the grille.

CDD5-TX	CDD6-TX
	

CDD5-TX

Position	70 V line	100 V line	Notes
1	LoZ	LoZ	Low impedance (8 ohm)
2	3 W	6 W	
3	6 W	12.5 W	
4	12.5 W	25 W	
5	25 W	Not used	

CDD6-TX

Position	70 V line	100 V line	Notes
1	LoZ	LoZ	Low impedance (8 ohm)
2	6.2 W	12.5 W	
3	12.5 W	25 W	
4	25 W	50 W	
5	50 W	Not used	

Power rating for standard and weatherised CDD8-TX and CDD10-TX

The 70/100 V line versions CDD 8 and 10 (standard and weatherised) have a five-pin Phoenix Contact PCB terminal block at the back. This terminal block has five push-in spring connections, and you use these to select the power rating.

To choose the power rating for standard and weatherised CDD8-TX and CDD10-TX

1. Connect negative from the amplifier to the leftmost connection position (labelled COM). Use the top row of connections (labelled IN).
2. Connect positive from the amplifier to the connector position that corresponds to the power required, as shown in the following table:

Connector	70 V line	100 V line
1	Negative	Negative
2	15 W	30 W
3	30 W	60 W
4	60 W	120 W
5	120 W	Not used

You can't select low impedance (8 ohm) with CDD8-TX and CDD10-TX (standard, weatherised or marine).

To daisy-chain other speakers, use the lower row of connectors (labelled LINK).

Power rating for marine CDD8-TX and CDD10-TX

The marine 70/100 V line versions of CDD 8 and 10 have a factory fitted five-core cable at the back. This cable contains five coloured wires that allow you to select the power rating.

To choose the power rating for marine CDD8-TX and CDD10-TX

1. Connect negative from the amplifier to the black wire (COM).
2. Connect positive from the amplifier to the wire that corresponds to the power required, as shown in the following table:

Colour	70 V line	100 V line
Black	Negative	Negative
White	15 W	30 W
Blue	30 W	60 W
Brown	60 W	120 W
Grey	120 W	Not used

You can't select low impedance (8 ohm) with CDD8-TX and CDD10-TX (standard, weatherised or marine).

Weatherised connections

Weatherised CDD speakers have a weatherproof connector cover and cable gland to protect the connector block. If you are daisy-chaining these cabinets, you can use the knockout hole to the right to install a second gland (not supplied).

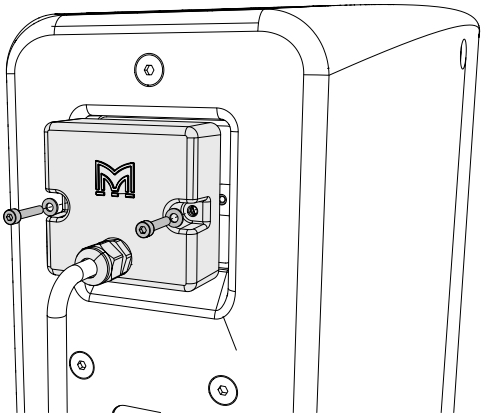
To maintain the enclosure's IP rating, the second gland must be the same type and size as the pre-fitted gland.

To connect weatherised CDD speakers

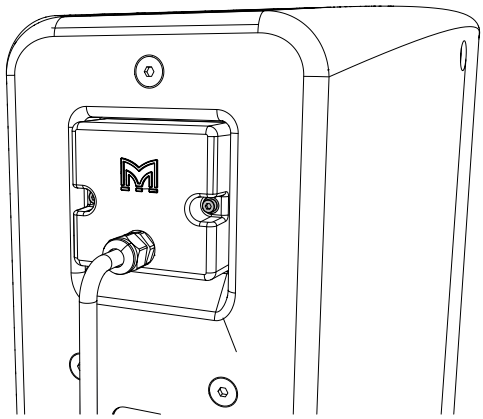
1. Remove the hex-head screws that hold the cover in place.

   For weatherised CDD 5 and 6, the cover has three screws, with the cable gland positioned for vertical cable entry (replacement part AIPKIT).

   For weatherised CDD 8, 10, 12 and 15, the cover has two screws, with the cable gland positioned for rearwards cable entry (CDD 8 replacement part ASF09006, CDD 10, 12 and 15 replacement part ASF09007). The picture below shows the weatherised CDD 12.



2. Remove the cover. Take care not to damage the gasket that seals the cover against the rear panel.
3. Loosen the cable clamp nut and pass the cable through the cable gland.
4. Connect the cable to the input terminals. For details, see Connecting CDDs (page 12).
5. To daisy-chain to another speaker, remove the knockout, fit a second gland and connect the second cable to the link terminals. For details, see Connecting CDDs (page 12).
6. Refit the cover.



Marine connections

The marine versions of CDD have a factory-fitted two-core 2.5 mm^2 cable at the back. This has brown and blue wires:

1. Connect **positive** from the amplifier to **brown**.
2. Connect **negative** from the amplifier to **blue**.

To daisy chain the marine versions of CDD you need to use external connectors.

The marine versions of the 70/100 V line CDD 8 and 10 have a factory-fitted five-core 1.5 mm^2 cable at the back. For details, see To choose the power rating for marine CDD8-TX and CDD10-TX (page 14).

Where to mount CDDs

Mount your CDD loudspeakers above head height and position them high enough to give clear coverage and low enough to avoid over-exciting room resonances. Set the tilt angles (page 45) to aim the loudspeakers at the furthest listener across the room.

The horizontal dispersion of CDD Series speakers produces an approximately square coverage pattern (page 8). To maximise efficiency of coverage, we recommend that you mount speakers away from corners and away from each other.

Don't place CDD Series speakers next to one another, as there's likely to be an overlap in the horizontal coverage leading to unwanted comb filtering.

System design

To design your system and decide on the best positions for your speakers, we recommend Martin Audio **Display 3** software. This is available as a free download from our website.

Display 3 allows you to model your space and experiment with various system configurations and speaker positions. Display 3 predicts the performance of your experimental configurations, allowing you to optimise the performance of your system at the design stage.

To download Display 3

1. Visit our website martin-audio.com.
2. Select **Support > Software/Firmware**.
3. Scroll to **Display 3** and click **Download**.

EASE data

For acoustic modelling of CDD in EASE and EASE Focus, we provide a zip file of high-resolution GLL files as a free download.

For acoustic modelling of CDD in other software, we provide CLF files in the same zip file as the GLL files.

Note that for acoustic modeling of CDD, we recommend **Display 3** rather than EASE and EASE Focus; see above.

To download GLL and CLF files

1. Visit our website martin-audio.com.
2. Select **Support > Measurement Data**.
3. Scroll to **CDD Series** and click **Download**.

3D SketchUp files

For modelling CDD in **Sketchup**, we provide 3D SketchUp files as free downloads.

To download 3D Sketchup files

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and click on the appropriate speaker.
3. Select the **Technical drawings & 3D models** section and click **SKP-BLACK** or **SKP-WHITE**.
4. For accessories, select the **Accessories** section and click **SKP-B** or **SKP-W**.

Revit family

For modelling CDD in Revit, we provide a CDD Revit family as a free download.

To download the Revit family

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and select any of the CDD speakers.
3. Select the **Technical drawings & 3D models** section and click **REVIT FILE**.

DWG files

For viewing the CDD technical drawings in CAD software such as AutoCAD, we provide DWG files as free downloads.

To download DWG files

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and click on the appropriate speaker.
3. Select the **Technical drawings & 3D models** section and click **DWG**.

4. For DWG files for accessories, select the **Accessories** section and click **DWG**.

How to mount CDDs

You can mount CDD 5, 6 or 8 on walls or ceilings. You can mount CDD 10, 12 or 15 on walls, ceilings, trusses or poles, or fly using eye bolts.

- To mount CDD 5, 6 or 8 on a wall, use a wall bracket (page 19).
- To mount CDD 10, 12 or 15 on a wall, use a wall bracket (page 19). You could use a yoke (page 33), but a wall bracket is usually a better choice.
- To mount CDD 5, 6 or 8 on a ceiling, use a ceiling bracket (page 28).
- To mount CDD 10, 12 or 15 on a ceiling, use a yoke (page 33).
- To mount CDD 10, 12 or 15 on pole or truss, use a yoke (page 33).
- To fly CDD 10, 12 or 15, use eye bolts (page 36).

	CDD 5, 6 and 8	CDD 10, 12 and 15
Wall bracket	Yes	Yes
Ceiling bracket	Yes	
Yoke mounting		Yes
Flying using eye bolts		Yes

All CDD fittings are optional accessories, except for CDD 5 wall brackets, which we supply with the speakers.

First and second fix

Construction industry practice often uses first and second fixing stages. The advantage of this is that installers can pull cables and attach fixings while building and decoration work is on-going, avoiding the potential problems of leaving expensive and delicate audio equipment on site at this stage.

- Standard CDD models have pluggable cable connectors. You can connect cables to plugs at first fix and then plug the connectors into the speakers at second fix.
- All CDD brackets and yokes disassemble into two parts. You can attach one part to the wall or ceiling at first fix and then attach the other part to the cabinet and connect the two parts at second fix.

Wall mounting CDD

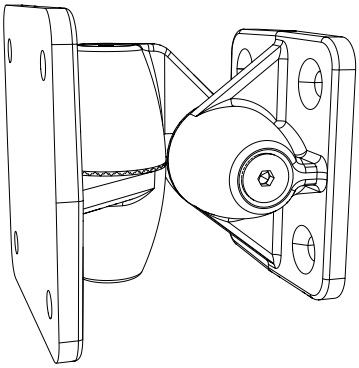
You can mount any CDD speaker on a wall using a wall bracket. We have two types of wall bracket: the type for CDD 5 and the type for the rest of the range (CDD 6, 8, 10, 12 and 15).

- To mount CDD 5 on a wall, see Wall mounting CDD 5 (page 19). Note that we ship CDD 5 in pairs, complete with wall brackets in either black or white to match the speakers. If you are mounting CDD 5 on a wall, you don't need any additional mounting hardware.
- To mount CDD 6, 8, 10, 12 or 15 on a wall, see Wall mounting CDD 6, 8, 10, 12 and 15 (page 23).

For details of other mounting options, see How to mount CDDs (page 18).

Wall mounting CDD 5

The wall bracket for the CDD 5 has three parts: a part that attaches to the wall, a part that attaches to the cabinet and a link section that joins the two. This link section allows you to adjust the speaker both horizontally and vertically.

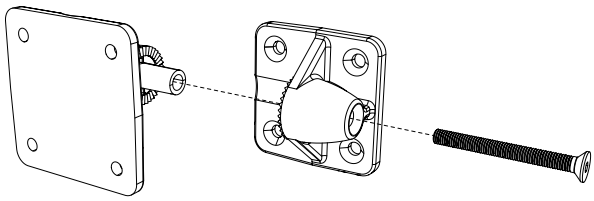


If you only need to adjust the speaker in one plane (horizontally or vertically), you can leave out the link section. In this case, the speaker will fit a little closer to the wall.

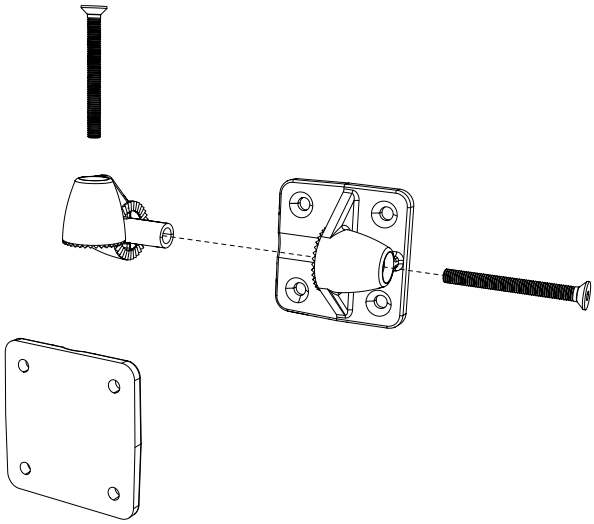
For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

To wall mount CDD 5 – first fix

1. Decide whether you need to adjust the installed speaker horizontally or vertically or in both planes.
2. Separate the wall section from the rest of the bracket using a 4 mm hex key (H4).
   - The wall section is larger and has fixing holes on 45 mm (1.77 in) centres.
   - The cabinet section is smaller and has countersunk holes on 35 mm (1.38 in) centres.



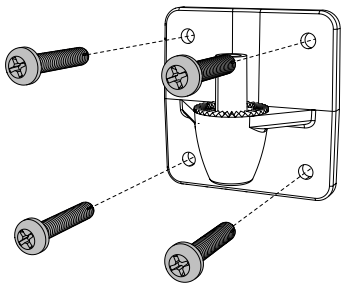
3. If you only need to adjust the speaker in one plane (horizontally or vertically), remove the link section from the cabinet section using a 4 mm hex key (H4).



4. Attach the wall section to the wall. The wall section has four holes with diameter 5.2 mm (0.2 in).

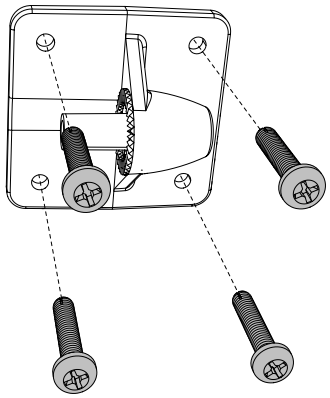
   So that the installation is safe and secure, you must use fixings that are appropriate for the wall surface and the weight of the cabinet (page 48).

If you need to adjust the speaker in both planes (or horizontally only), fit the bracket with the peg upwards, as shown below.



If you only need to adjust the speaker horizontally, use the same vertical orientation.

If you only need to adjust the speaker vertically, fit the bracket with the peg sideways, as shown below.



5. If second fix is to follow at a later date, it is a good idea to screw the pivot bolt into the wall bracket, so that it does not get lost.
6. At this stage, we recommend that you terminate the speaker cables with the Phoenix-style connectors (page 12) supplied with the speakers.

To wall mount CDD 5 – second fix

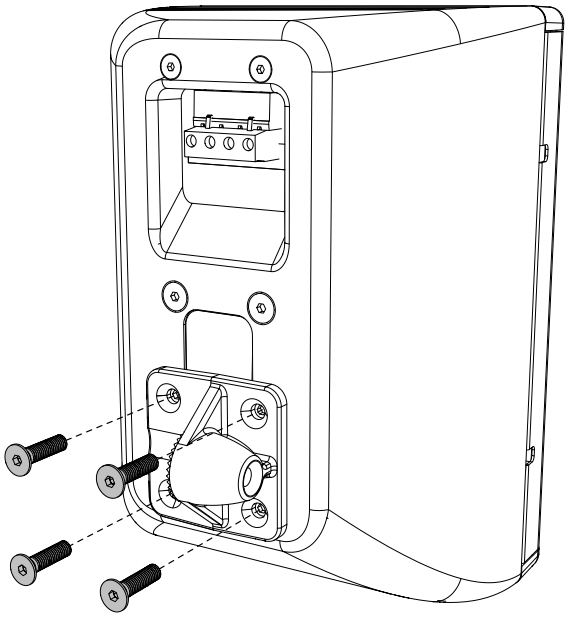
1. Decide whether to install the speakers in landscape or portrait. The speakers will sound equally good in either orientation, so you can base this decision purely on the visual impact.
2. If you are installing in landscape or upside-down portrait, rotate the driver (page 10).

The speaker won't perform properly unless the driver is correctly orientated (page 9).

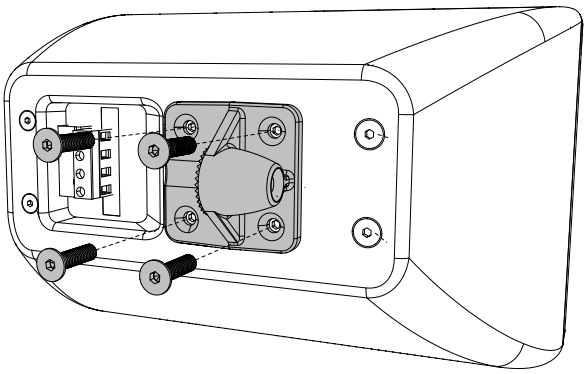
Note that for portrait, it is usually best to install the speaker the right way up. This is because with upside-down portrait on a wall bracket, you will have little ability to tilt the speaker down before it touches the wall.

3. Remove four screws (M5) from the back of the cabinet using a 3 mm hex key (H3) and attach the cabinet bracket section using these screws.
   - For portrait installation, use the lower four fixing points (this will allow you to tilt the speaker further than if you use the upper four fixing points).
   - For landscape installation, use the four fixing points in the middle of the speaker.

If you need to adjust the speaker in both planes (or vertically only), fit the bracket with the opening sideways, as shown below for portrait:

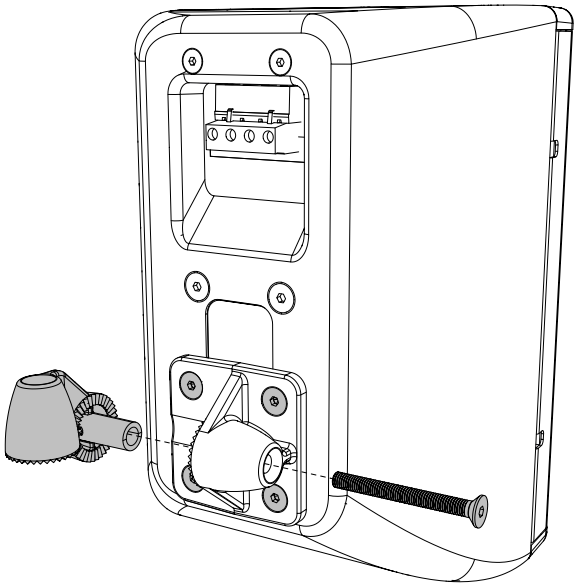


For landscape, use the same arrangement, as shown below:

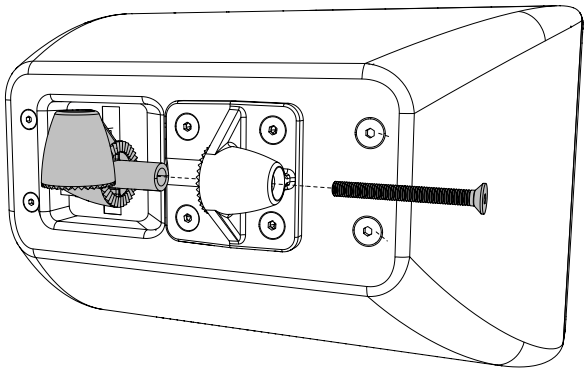


If you only need to adjust the speaker horizontally, fit the bracket with the opening downwards.

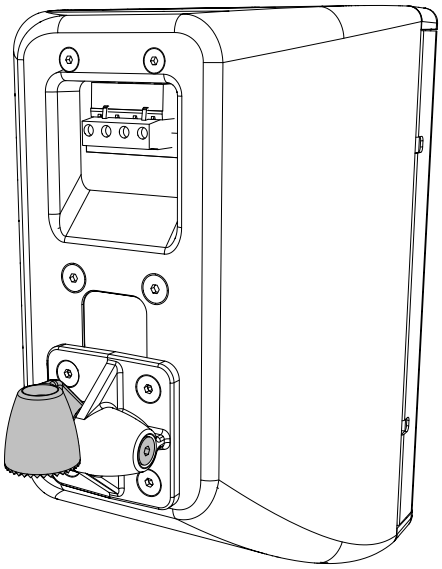
4. If you need to adjust in both planes, fit the link section to the cabinet section, as shown below for portrait:



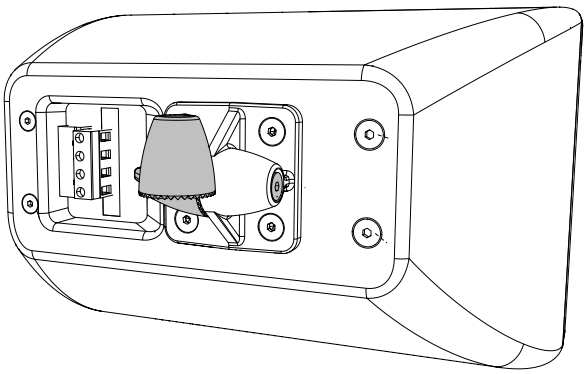
For landscape, use the same arrangement, as shown below:



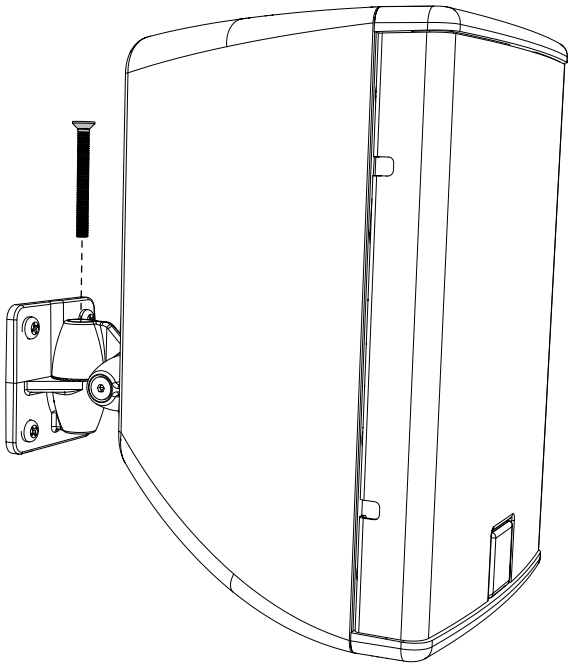
5. Bolt this link section in place, as shown below for portrait:



For landscape, use the same arrangement, as shown below:



6. Remove the bolt from the wall bracket section.
7. Lift the speaker up to the wall bracket section.

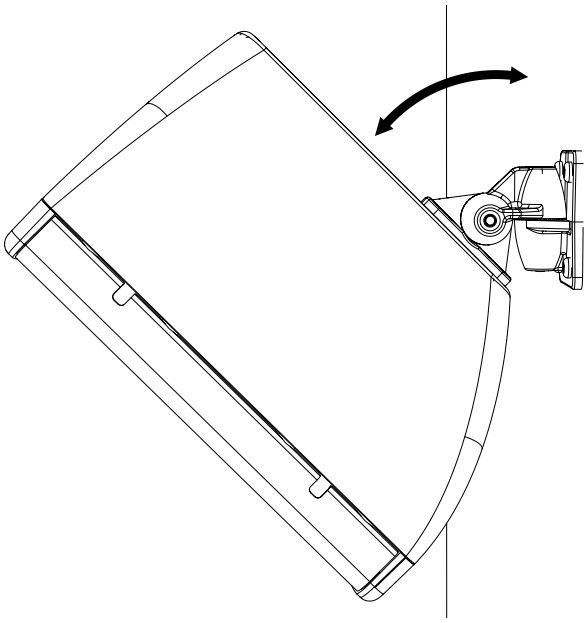


If the wall bracket peg is upwards, the other section will hook securely in place freeing up your hands. You can then fit the pivot bolt.

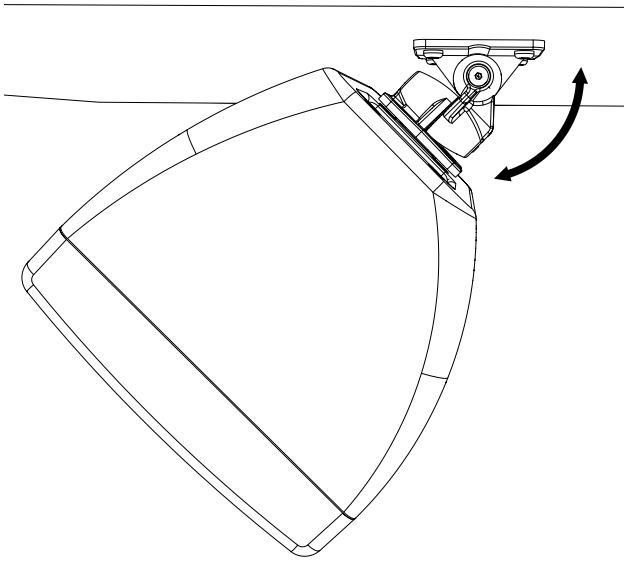
If the wall bracket peg is sideways (allowing only vertical adjustment), slide the two sections of the bracket together and support the speaker with one hand while you insert the pivot bolt with your other hand.

8. Tighten the bolt but leave it a little loose to allow for final adjustment. The radial teeth of the bracket allow you to adjust the speaker in increments of approximately 10°. If the fitting includes the link section, loosen the other fitting slightly, so that you can adjust in the other plane.

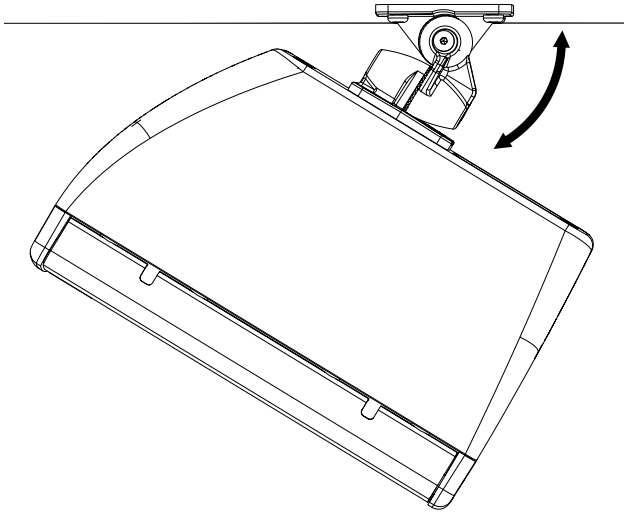
For a speaker in portrait, the maximum tilt angle is 70° as shown below (viewed from the side):



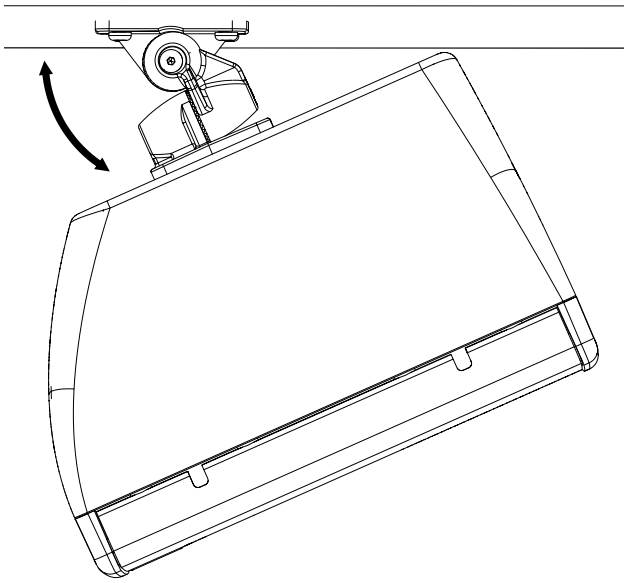
For a speaker in portrait, the maximum pan angle is 45° as shown below (viewed from the ceiling):



For a speaker in landscape, the maximum pan angle is 45° in one direction, as shown below (viewed from the ceiling):



For a speaker in landscape, the maximum pan angle is 30° in the other direction, as shown below (viewed from the ceiling):

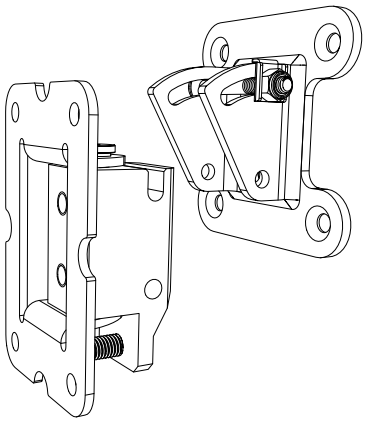


For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

9. Connect the speaker cables using the pluggable Phoenix-style connectors (page 12).
10. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
11. When you have found the best position, tighten the vertical and horizontal bolts.

Wall mounting CDD 6, 8, 10, 12 and 15

All CDD speakers except the CDD 5 use the same style of wall bracket. This has two parts, a wall section and a cabinet section. When you install the speaker, a horizontal bolt in the cabinet section locates into a notch in the wall section. This takes the weight of the cabinet while you fix the bracket in place.



There are three sizes of wall bracket for the CDD 6, 8, 10, 12 and 15:

- WB6/8 is the wall bracket for the CDD 6 and 8.
- WB10/12 is the wall bracket for the CDD 10 and 12.
- WB15 is the wall bracket for the CDD 15.

The main difference between these is that the brackets for the CDD 10, 12 and 15 are larger and stronger to cope with the heavier weights. The fitting procedures for these three brackets is much the same.

For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

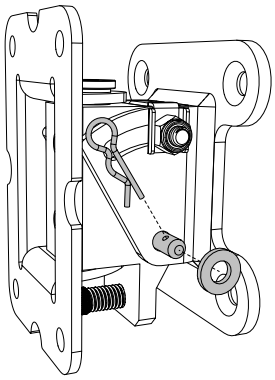
For details of wall mounting CDD 5, see Wall mounting CDD 5 (page 19).

Landscape or portrait

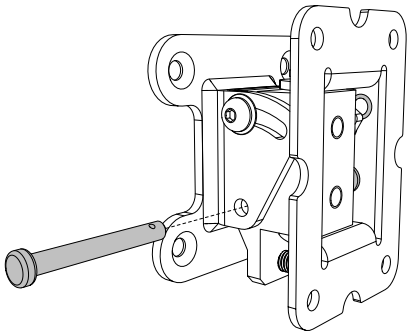
You can use wall brackets to wall mount CDD 6, 8, 10, 12 or 15 in landscape or portrait. For landscape, you must rotate the driver (page 10).

To wall mount CDD 6, 8, 10, 12 or 15 – first fix

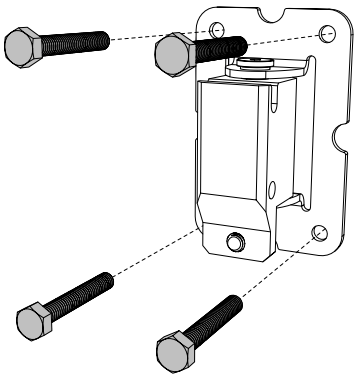
1. Depending on your bracket, either remove the R-clip and washer (as shown below) or the nut on the lower bolt. Don't remove the upper nut and bolt in the curved slot.



2. Remove the lower fitting (as shown below) or the lower bolt:



3. Separate the two parts of the bracket.
4. Attach the wall section to the wall. Note that the wall section is rectangular while the cabinet section is square. The grub screw needs to be at the bottom and the sideways notch at the top.



Use wall fixings that are appropriate for the composition of the wall and the weight of the speaker (page 47).

- For CDD 6 and 8, the wall section has four holes with diameter 7 mm (0.28 in).
- For CDD 10 and 12, the wall section has four holes with diameter 9 mm (0.35 in).
- For CDD 15, the wall section has six holes with diameter 11 mm (0.43 in).

5. At this stage, we recommend that you terminate the speaker cables with the Phoenix-style connectors (page 12) supplied with the speakers.

To wall mount CDD 6, 8, 10, 12 or 15 – second fix

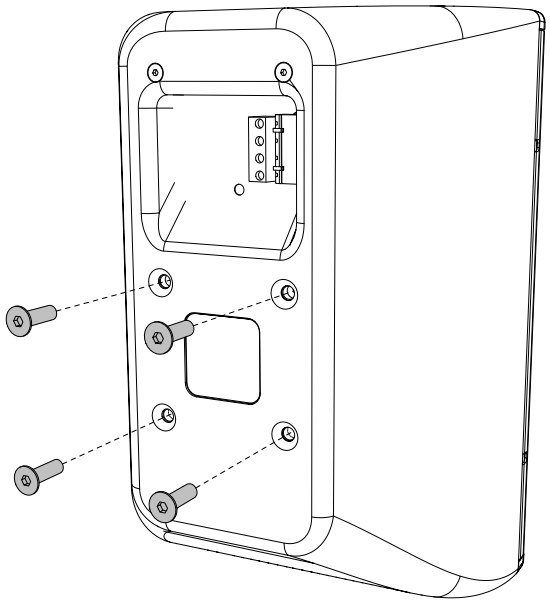
1. If you are installing in landscape or upside-down portrait, rotate the driver (page 10).

> The speaker won't perform properly unless the driver is correctly orientated (page 9).

Note that for portrait, it is usually best to install the speaker the right way up. This is because with upside-down portrait on a wall bracket, you will have little ability to tilt the speaker down before it touches the wall.

2. Remove (and keep) four screws from the back of the cabinet.
   - For CDD 6 and 8, use a 4 mm hex key.
   - For CDD 10, 12 and 15, use a 5 mm hex key.

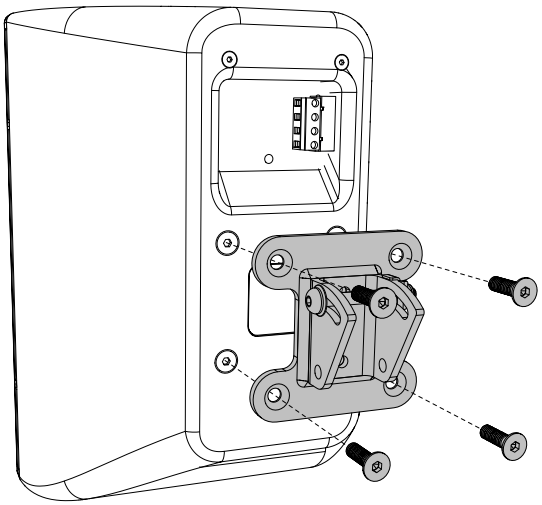
For CDD 6 there are only four screws, so there is no choice of which screws to remove.



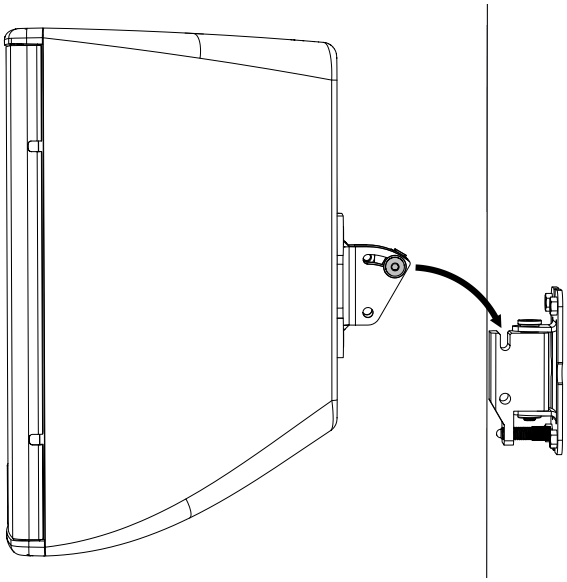
For CDD 8, 10, 12 and 15, there are six screws:

- For portrait, remove the lower four screws, as this will allow you more downwards tilt of the speaker.
- For landscape, remove the four screws in the middle of the cabinet.

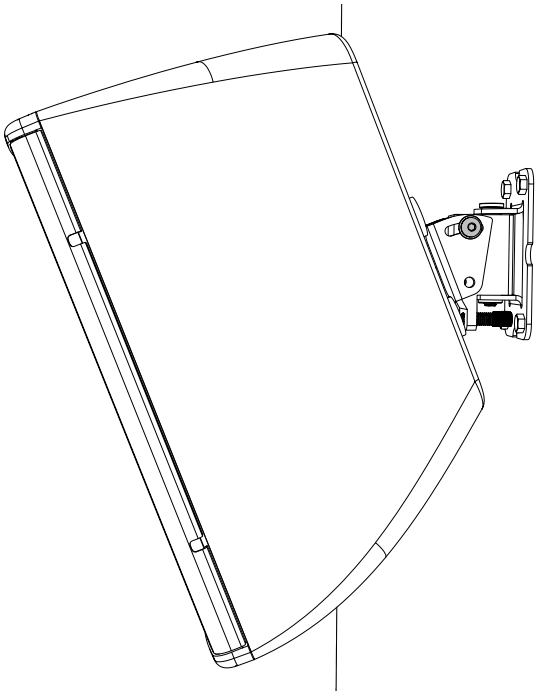
3. Attach the cabinet section of the bracket (the square section) using the same screws. Make sure that the bolt is horizontal.



4. Lift the speaker up to the bracket and hook the horizontal bolt into the notch of the wall section.



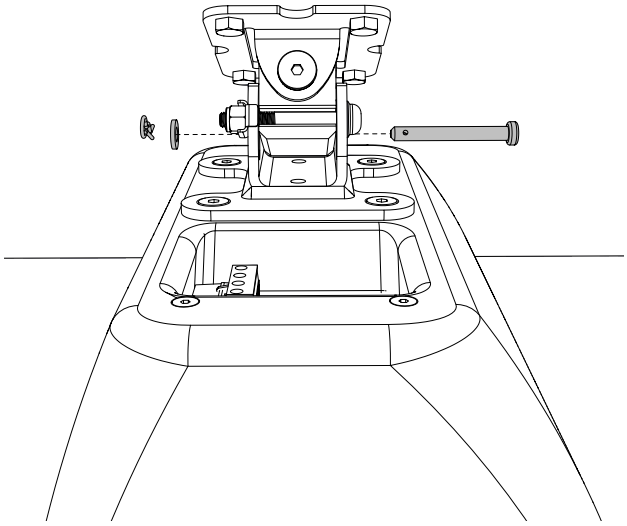
The bracket will now hold the speaker in place.



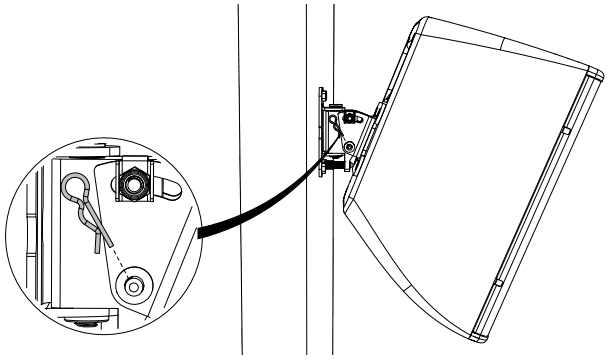
When working at height, you must use appropriate safety measures.

A scaffold tower or lifting platform will allow you to use both hands safely.

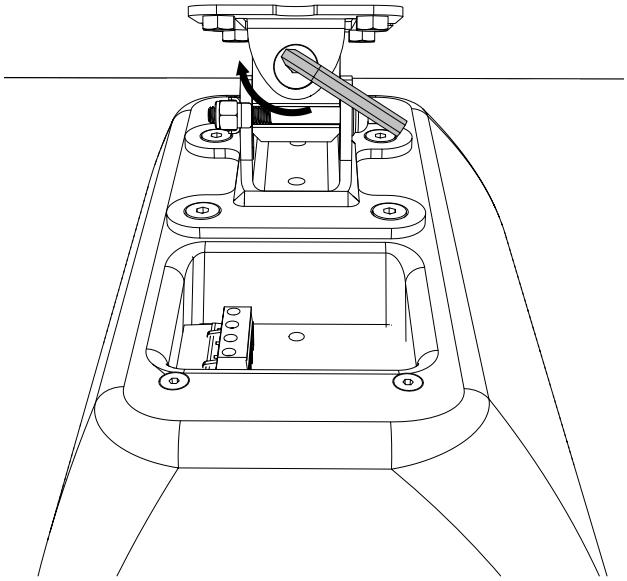
5. Replace the lower fastening. Depending on your bracket, this is either a pin (as shown below) or a bolt.



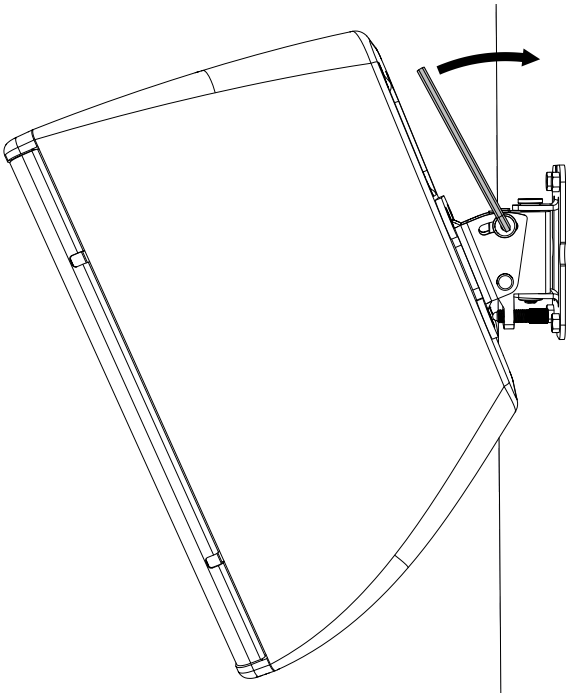
6. Fix the pin or bolt in place, with either the washer and R-clip (as shown below) or the nut.



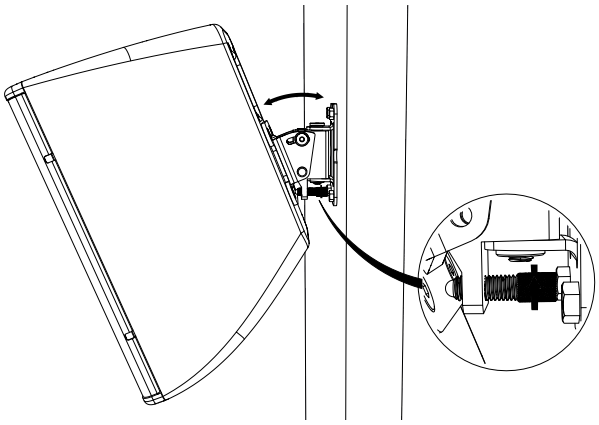
7. Loosen the vertical bolt (using an M5 hex key) and adjust the speaker horizontally on this bolt.



8. Loosen the upper horizontal bolt.



9. Adjust the vertical position using the grub screw.



For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

10. Connect the speaker cables using the pluggable Phoenix-style connectors (page 12).
11. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
12. When you have found the best position, tighten the vertical and horizontal bolts.

Ceiling mounting CDD

You can mount CDD 5, 6 or 8 on the ceiling using a ceiling bracket. We have two types of ceiling bracket, one for CDD 5 and one for both CDD 6 and 8.

- To mount CDD 5 on the ceiling, see Ceiling mounting CDD 5 (page 28).
- To mount CDD 6 or 8 on the ceiling, see Ceiling mounting CDD 6 or 8 (page 30).

For details of other mounting options, see How to mount CDDs (page 18).

Ceiling mounting CDD 5

For CDD 5, the optional ceiling bracket (CDDCB5) attaches to the wall bracket supplied with the speaker. The fitting procedure is exactly the same as mounting the CDD 5 on a wall, except that you mount the wall bracket on the ceiling bracket.

For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

First and second fix

- At first fix, you attach the wall section of the wall bracket to the ceiling bracket. You then attach the ceiling bracket to the ceiling.
- At second fix, you attach the speaker section of the wall bracket to the speaker. You then mount the speaker by connecting the two sections of the wall bracket.

Landscape or portrait

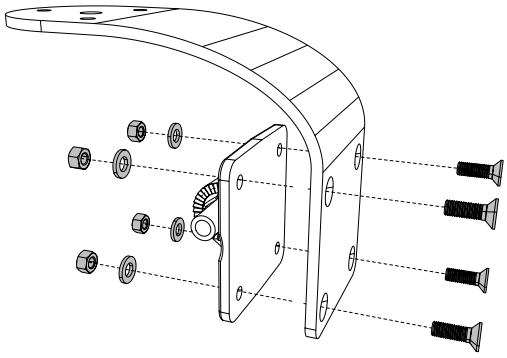
It's best to ceiling mount CDD 5 in landscape, and in this case, you must rotate the driver (page 10).

To ceiling mount the CDD 5 in portrait, you need to mount the speaker upside down. In this case, you must rotate the grille and driver by 180°. For details see To rotate the driver (page 10).

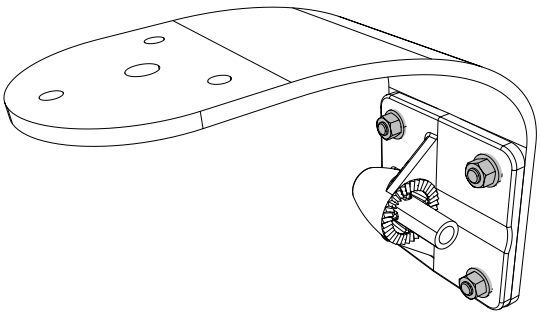
To ceiling mount the CDD 5 – first fix

1. Disassemble the wall bracket (supplied with the speaker). This is because the wall bracket connects to the ceiling bracket CDDCB5.

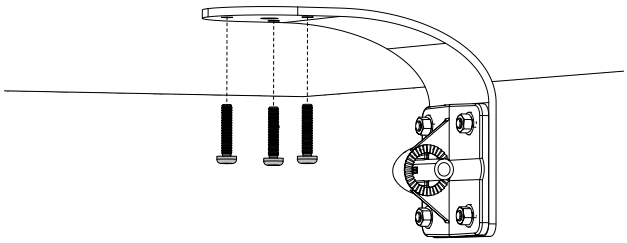
   For details of the wall bracket, see Wall mounting CDD 5 (page 19).
2. Bolt the wall section of the wall bracket to the ceiling bracket using the four M5 screws, plain washers and Nyloc nuts supplied with the ceiling bracket.



Make sure that the peg is sideways as shown below:



3. Fix the ceiling bracket to the ceiling. The bracket has three 5.5 mm (0.22 in) holes and a central 8.5 mm (0.33 in) hole.



If the three smaller holes will give a safe and secure fixing (for example, by using wood screws into a batten above plasterboard), you could use the central hole for cable routing.

Alternatively, you could start by using a single fixing through the central hole, allowing you to find the correct horizontal coverage by pivoting the speaker on this fixing. When you have found the best position, tighten the central fixing and add fixings to the three smaller holes.

Make sure that the attachment to the ceiling is safe and secure, particularly as the speakers may be over people's heads. The fixings to use will depend on the ceiling construction and the weight of the speaker (page 47).

4. At this stage, we recommend that you terminate the speaker cables with the Phoenix-style connectors (page 12) supplied with the speakers.

To ceiling mount CDD 5 – second fix

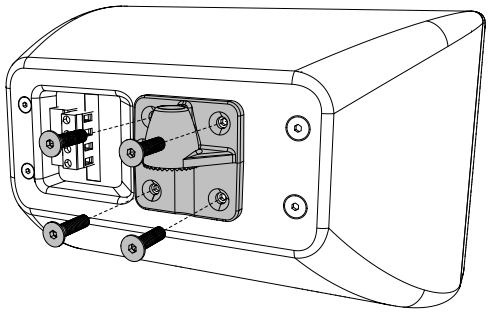
1. If you are installing in landscape, you must rotate the driver (page 10).

   If you are installing in portrait, you need to fit the speaker in upside-down portrait and so you must rotate the driver and grille by 180° (page 10).

The speaker won't perform properly unless the driver is correctly orientated (page 9).

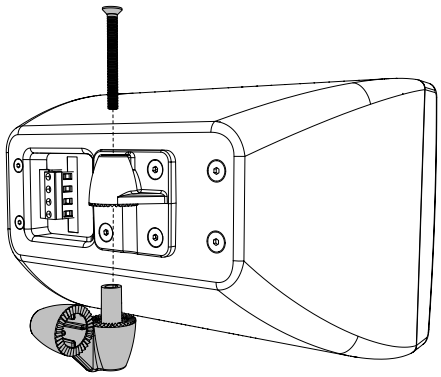
2. Remove four M5 screws from the back of the cabinet using a 3 mm hex key (H3) and attach the cabinet section of the bracket using the same screws.

   For landscape, use the four screws in the middle of the cabinet and fit the bracket vertically with the opening downward, as shown below:

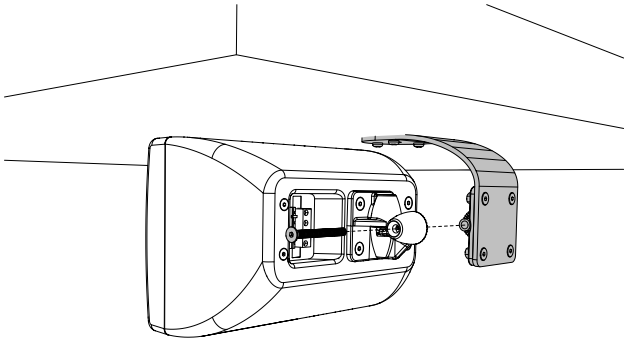


   For portrait, put the speaker into upside down portrait and then use the top four screws and fit the bracket vertically with the opening downward.

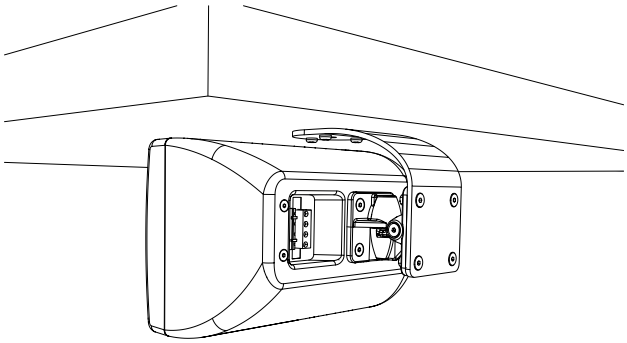
3. Connect the link section to the cabinet section of the wall bracket.



4. Lift the cabinet up to the ceiling bracket.

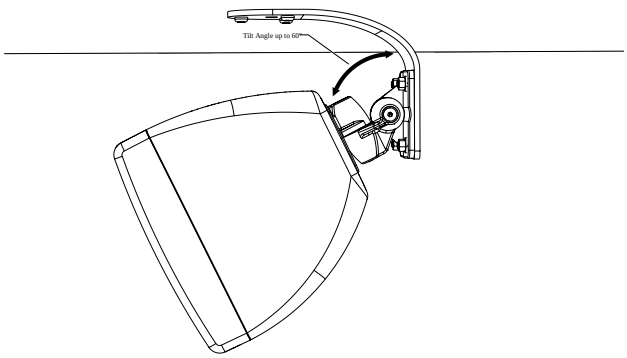


Attach the two parts of the bracket using the 5 mm securing bolt. So that you can adjust the speaker, leave the bolt slightly loose.

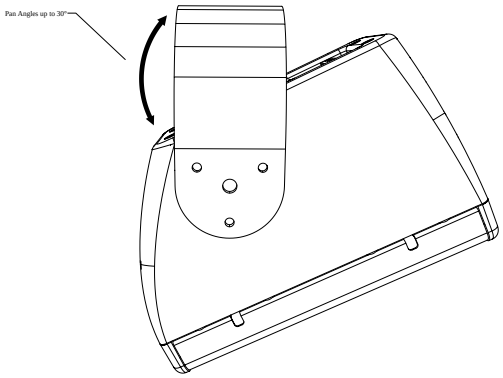


Fit the bolt slightly loosely so that you can adjust the speaker.

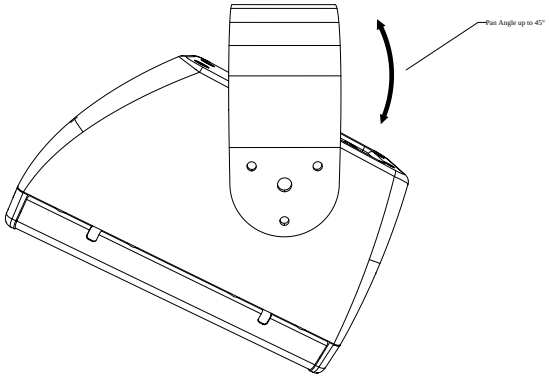
With the speaker in landscape, the maximum downward tilt angle is 60° as shown below (viewed from the side):



With the speaker in landscape, the maximum pan angle is 30° in one direction and 45° in the other. The 30° angle is shown below (viewed from the ceiling):



The 45° angle is shown below (viewed from the ceiling):



For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

5. Connect the speaker cables using the pluggable Phoenix-style connectors (page 12).
6. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
7. When you have found the best position, tighten the vertical and horizontal bolts.

Ceiling mounting CDD 6 or 8

To mount a CDD 6 or 8 speaker on the ceiling, you need an optional ceiling bracket. The CDD 6 and 8 use the

same bracket (part number CDDCB6/8). This bracket has two sections:

- A 90° arm that attaches to the ceiling.
- A four-point square section that fixes to the rear of the cabinet.

The two sections are held together with a bolt.

To mount CDD 5 on the ceiling, you need a different bracket. For details, see Ceiling mounting CDD 5 (page 28).

To mount CDD 10, 12 or 15 speakers on the ceiling, you need a yoke mounting (page 33). Alternatively, you can fly these speakers (page 36) using optional eye bolts.

For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

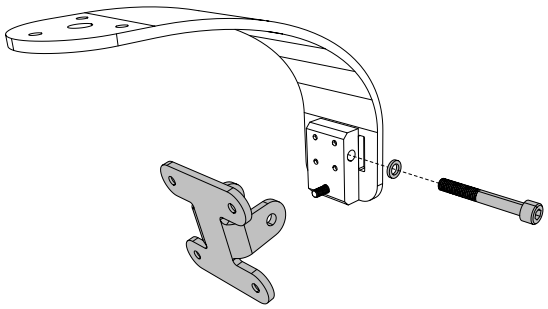
Landscape or portrait

It's best to ceiling mount the CDD 6 or 8 in landscape. In this case, you must rotate the driver (page 10).

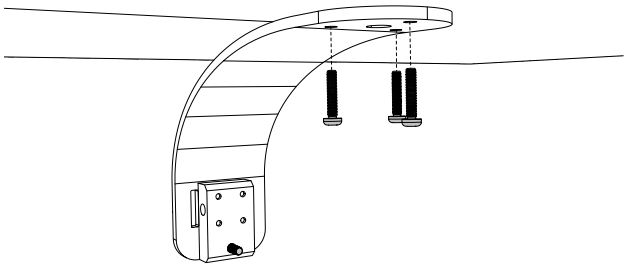
To ceiling mount the CDD 6 or 8 in portrait, you need to mount the speaker upside down. In this case, you must rotate the grille and driver by 180° (page 10).

To ceiling mount CDD 6 or 8 – first fix

1. Unscrew the cabinet section of the bracket from the ceiling arm using an M6 hex key.



2. Fix the ceiling arm to the ceiling. The ceiling arm has three 6.5 mm (0.26 in) holes and a central 13 mm (0.51 in) hole.



If the three smaller holes will give a safe and secure fixing (for example, by using wood screws into a batten above plasterboard), you could use the central hole for cable routing.

Alternatively, you could start by using a single fixing through the central hole, allowing you to find the correct horizontal coverage by pivoting the speaker on this fixing. When you have found the best position, tighten the central fixing and add fixings to the three smaller holes.

Make sure that the attachment to the ceiling is safe and secure, particularly as the speakers may be over people's heads. The fixings to use will depend on the ceiling construction and the weight of the speaker (page 47).

3. At this stage, we recommend that you terminate the speaker cables with the Phoenix-style connectors (page 12) supplied with the speakers.

To ceiling mount CDD 6 or 8 – second fix

1. If you are installing in landscape, rotate the driver by 90° (page 10).

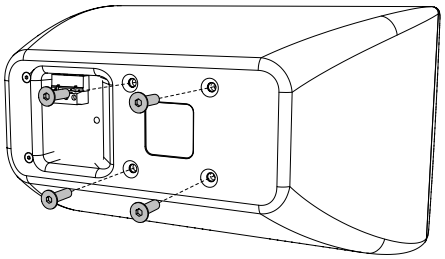
   If you are installing in portrait, you will need to install the speaker upside down, so rotate the driver and grill by 180° (page 10).

The speaker won't perform properly unless the driver is correctly orientated (page 9).

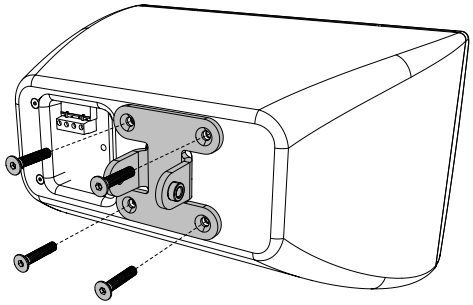
2. Remove four M6 screws from the cabinet using a 4 mm hex key (H4) and attach the cabinet bracket section using the same screws.

   For CDD 8, there are six screws on the back. For CDD 8 in landscape use the middle four screws, so the bracket is in the middle of the cabinet. For CDD 8 in portrait, use the lower four screws, so that when you install the speaker in upside-down portrait, the bracket is at the top of the speaker.

   For CDD 6 (shown below), there are only four screws on the back, so there's no choice of position.

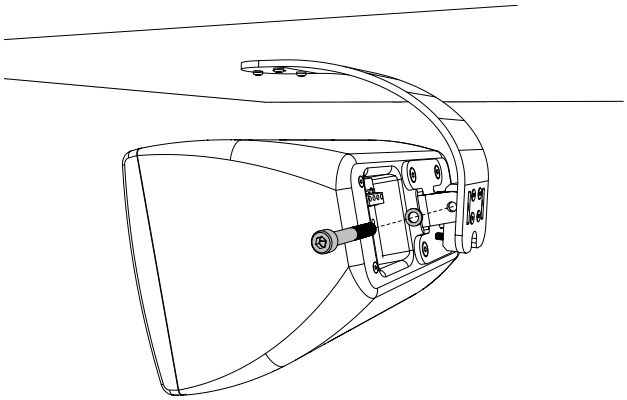


   For CDD 6 or 8 in landscape, fit the bracket so that the bolt holes are horizontal as shown below.



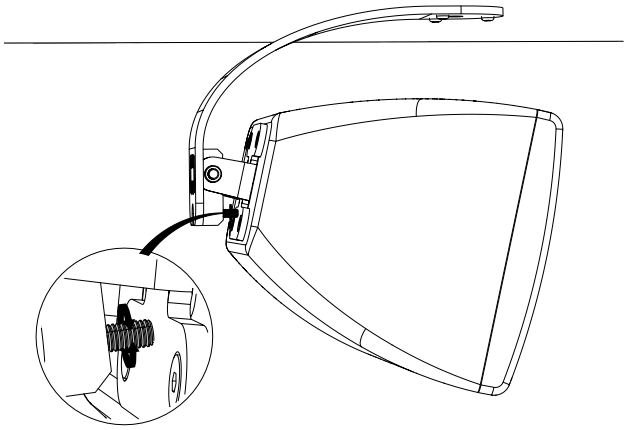
   For CDD 6 or 8 in portrait, fit the bracket so that the bolt holes are horizontal in portrait.

3. Lift the cabinet up to the ceiling bracket and attach the two parts of the bracket using the 5 mm securing bolt. Leave the bolt a little loose, so you can adjust the vertical speaker position.



   If you are installing in portrait, remember to install the speaker upside-down.

4. Adjust the vertical position using the grub screw accessed from the rear of the bracket.



For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

5. Connect the speaker cables using the pluggable Phoenix-style connectors (page 12).
6. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
7. When you have found the best position, tighten the vertical and horizontal bolts.

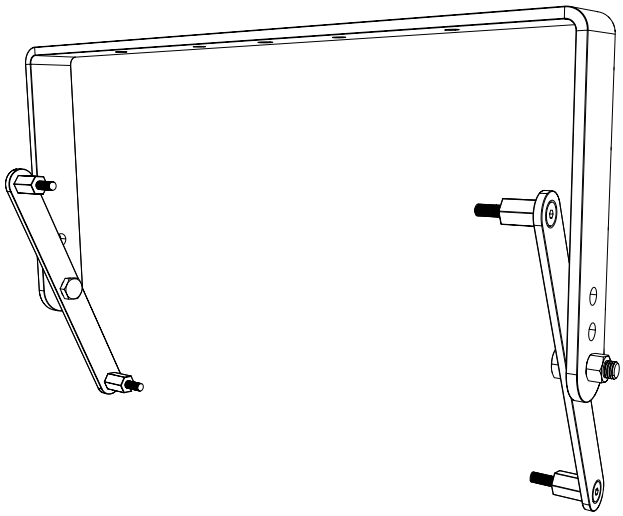
Yoke mounting CDD

Yoke mountings allow you to mount the three largest CDD speakers (CDD 10, 12 and 15) in landscape on ceilings, walls, trusses and poles (page 35). Note that:

- For walls, wall brackets (page 23) are usually better as you can tilt and pan the speakers (with a yoke you can only tilt) and you can mount in landscape or portrait (with a yoke you can only mount in landscape).
- For ceilings, as an alternative you can fly the speakers using eye bolts (page 36). You can fly speakers in landscape or portrait.

The CDD yoke consists of:

- Two bars that bolt to the sides of the loudspeaker.
- A U-shaped frame that you fix to the ceiling, wall or pole.



We have three CDD yokes, one for each size of speaker:

- CDDY10 for CDD 10.
- CDDY12 for CDD 12.
- CDDY15 for CDD 15.

The only difference between these yokes is size and weight.

For permanent installations, you can use first and second fix procedures:

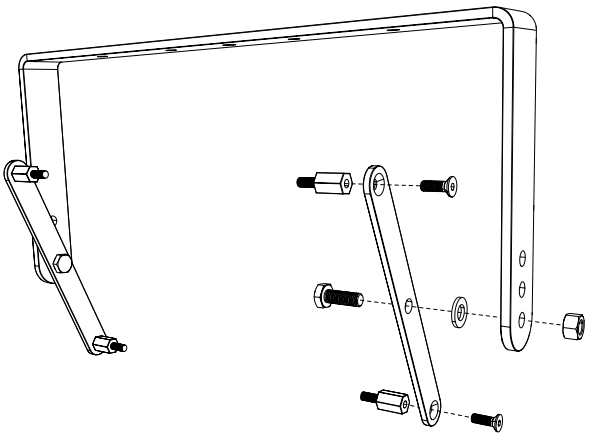
- **First fix** – fix the yoke to the ceiling, wall or pole.
- **Second fix** – fix the cabinet to the yoke.

For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

To mount a yoke on a ceiling or wall – first fix

1. Fit the side arms to the yoke using the M12 nyloc nuts and bolts supplied. Put a washer between the side arm and the yoke.

   There are three possible fixing holes to use for each side arm. The hole to use will depend on the angle of down-tilt you need. You could loosely fit the assembly together at ground level to determine the best hole to use.



2. Tighten the side arms sufficiently to allow a little movement for final positioning at second fix.
3. Fit the yoke to the wall or ceiling.

   The frame has four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole. You can attach the frame using the four smaller holes or the larger central hole.

   When the speaker is attached to the yoke, you can normally only adjust the speaker vertically. But if you fit the yoke to a ceiling using the central hole, you can also adjust horizontally, by rotating the yoke on the single attachment point before tightening the fixing.

   If you fit using the central hole, you must use a sufficiently robust fixing method for this single point

of attachment, and we strongly recommend that you use a secondary safety fitting (page 35).

If you fix using the smaller holes, you could use the central hole for cable access.

> Make sure that the attachment to the ceiling is safe and secure, particularly as the speakers may be over people's heads. The fixings to use will depend on the ceiling construction and the weight of the speaker (page 47).

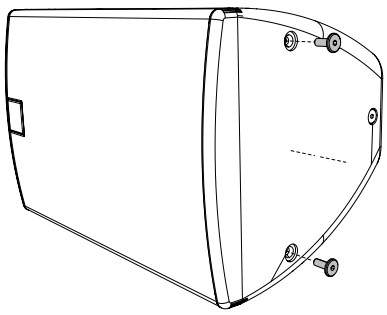
4. At this stage, we recommend that you terminate the speaker cables with the Phoenix-style connectors (page 12) supplied with the speakers.

To mount a yoke on a ceiling or wall — second fix

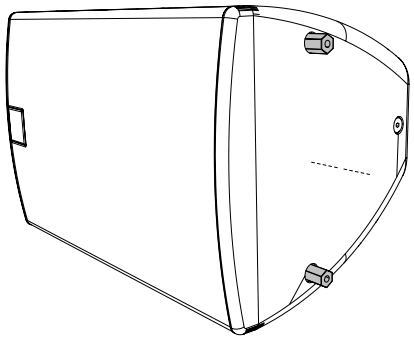
1. Rotate the driver for landscape use. For details, see To rotate the driver (page 10).

> The speaker won't perform properly unless the driver is correctly orientated (page 9).

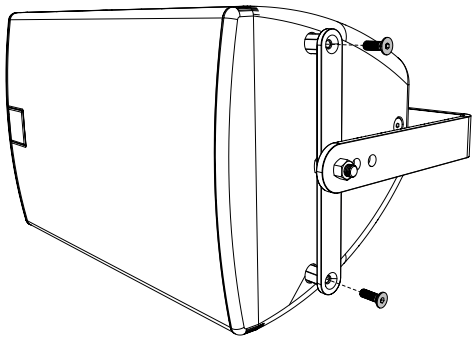
2. Remove two M8 screws on each side of the cabinet, as shown below. Keep these screws.



3. Replace the screws with the hex spacers supplied. Make sure these spacers are secure.

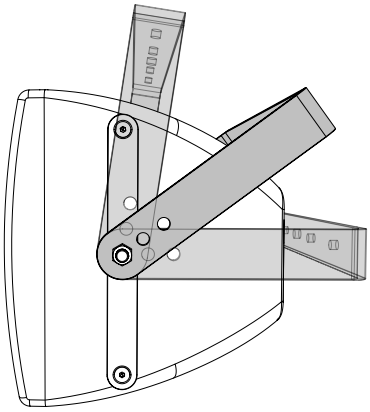


4. Attach the cabinet to the yoke assembly using the screws you removed earlier. For safety, this step needs two people, one to hold the cabinet in position and the other to fit the securing bolts at each end.



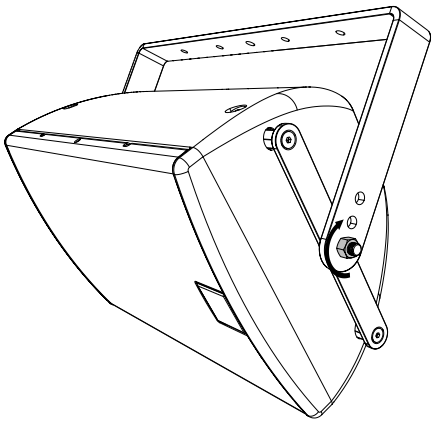
> When working at height, you must observe all standard safety protocols.

5. Connect the speaker cables using the pluggable Phoenix-style connectors (page 12).
6. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.



For details of tilt and pan angles, see CDD tilt and pan angles (page 45).

7. When you have found the best position, tighten the vertical and horizontal bolts.



To attach a yoke to a scaffold pole or truss

1. Attach a scaffolding clamp (or other single-point mounting) to the yoke frame using the central fixing.
2. Fit the yoke assembly to the cabinet. See To mount a yoke on a ceiling or wall – second fix (page 34).
3. Offer up the yoke and speaker to the pole or truss and attach the scaffolding clamp.
4. You must fit a secondary safety retaining device (page 35).

Secondary safety retaining device

This should be a chain or steel rope attached directly to the cabinet, and **not** to the yoke. You can attach this to the cabinet by fitting an M8 eyebolt into one of the inserts provided for flying purposes (page 36). You should attach the other end to a securing point that is a permanent fixture in the building structure. If the yoke is attached to a scaffold pole or truss, you could attach the chain or steel rope to the same pole or truss, as long as this is a permanent fixture and not part of temporary rigging. If in any doubt, check your local safety regulations.

Mounting on a pole

You can use a yoke assembly to mount a CDD 10, 12 or 15 on a pole stand. To do this, fit a pole mount adaptor to the yoke.

The floor stand must be rated for the weight of the cabinet (page 47).

Eye bolt mounting CDD

You can fly CDD 10, 12 and 15 speakers using Martin Audio M8 shouldered eye bolts (part number HTKCT05) and steel rope or chains. This allows you to suspend these speakers from suitable fixings in the ceiling or from trusses and poles. Note that the CDD 5, 6 and 8 don't have eye bolt fittings, so you can't fly these speakers.

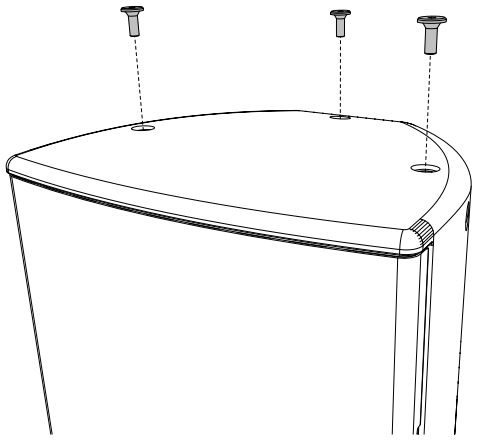
Don't use eye bolts from other manufacturers as this could be dangerous. For example, forged steel eye bolts available from DIY suppliers are definitely not strong enough. Even if you use cast or machined fittings rated for purpose, the shoulders could be too wide, causing the bolt to tighten against the cabinet rather than the thread.

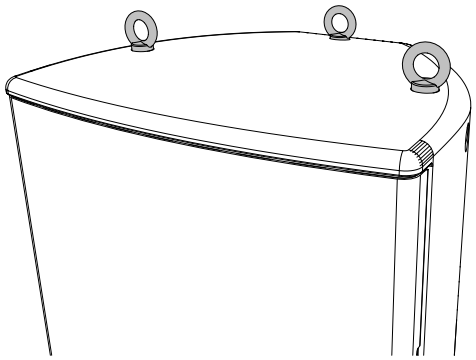
You can fly CDD 10, 12 and 15 in portrait or landscape. For landscape, you must rotate the driver (page 10).

The speaker won't perform properly unless the driver is correctly orientated (page 9).

Each cabinet has ten M8 inserts. With the cabinet in portrait, three of the inserts are on the top, two on the bottom, two on each side and one on the back.

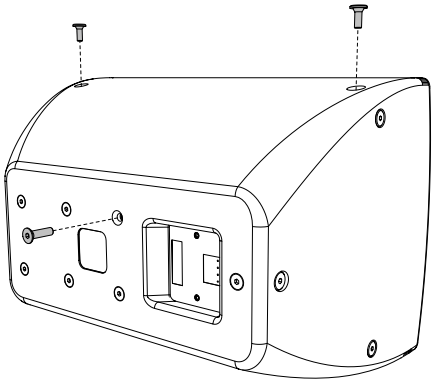
To suspend cabinets in portrait, the most common method is to use the three insert positions on the top, the front two as the primary suspension points and the third providing downward tilt.



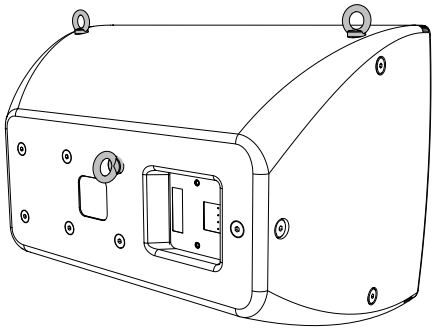


If you need a steeper tilt, you can use the insert on the back of the cabinet as the third position.

To suspend cabinets in horizontal, the third flying point (to adjust tilt) can be one of the six M8 bracket screws on the back of the cabinet.



Remove one of these screws and fit the third eye bolt in this position.



The rigging method and components must be suitable for both the weight of the speaker (page 47) and the suspension points.

Recommended amplifiers

For low impedance systems, we recommend Martin Audio VIA and iKON amplifiers, as shown below.

Model	VIA2004	VIA2502, VIA5004	VIA5002, iK41, iK42, iK81
CDD5	Yes	Yes	Yes
CDD6		Yes	Yes
CDD8		Yes	Yes
CDD10			Yes
CDD12			Yes
CDD15			Yes

For 70/100 V line systems, see Amplifiers for 70/100 V systems (page 39).

VIA amplifiers

We have four VIA amplifiers, two with two channels and two with four channels.

If you use VIA amplifiers, you also need a system controller (page 41).

Amplifier	Power output
VIA2004	4 x 500 W into 4 ohms
	4 x 250 W into 8 ohms
VIA2502	2 x 1,250 W into 2 ohms
	2 x 800 W into 4 ohms
	2 x 450 W into 8 ohms
	1 x 2,500 W bridged into 4 ohms
VIA5002	2 x 2,500 W into 4 ohms
	2 x 1,600 W into 8 ohms
VIA5004	4 x 1,250 W into 2 ohms
	4 x 800 W into 4 ohms
	4 x 450 W into 8 ohms
	2 x 2,500 W bridged into 4 ohms

For further details, see our website martin-audio.com.

iKON amplifiers

We have three iKON amplifiers, two with four channels and one with eight channels.

The iKON amplifiers have on-board system processing, so you don't need a separate system controller (page 41).

Amplifier	Power output
iK41	4 x 1,500 W into 2 ohms
	4 x 1,500 W into 4 ohms
	4 x 750 W into 8 ohms
	4 x 325 W into 16 ohms
	2 x 3,000 W bridged into 4 ohms
	2 x 3,000 W bridged into 8 ohms
iK42	4 x 5,000 W into 2 ohms
	4 x 3,000 W into 4 ohms
	4 x 1,500 W into 8 ohms
	4 x 750 W into 16 ohms
	2 x 10,000 W bridged into 4 ohms
	2 x 6,000 W bridged into 8 ohms
iK81	8 x 1,250 W into 2 ohms
	8 x 1,250 W into 4 ohms
	8 x 1,250 W into 8 ohms
	8 x 625 W into 16 ohms
	4 x 2,500 W bridged into 4 ohms
	4 x 2,500 W bridged into 8 ohms

For further details, see our website martin-audio.com.

Amplifiers for 70/100 V systems

For 70/100 V line systems, you must use an amplifier designed for driving a distributed line system, such as:

- The Martin Audio VIA5002. This is the only VIA amplifier that supports 70/100 V line systems.
- Any of the Martin Audio iKON amplifiers (iK41, iK42 and iK81). Note that the iKON amplifiers have on-board system processing, so you don't need a separate system controller.

Amplifier	Power output
VIA5002	2 x 2,500 W, 70 V line
	2 x 2,500 W, 100 V line
iK41	4 x 1,500 W, 70 V line
	4 x 1,163 W, 100 V line
iK42	4 x 3,500 W, 70 V line
	4 x 5,000 W, 100 V line
iK81	8 x 1,250 W, 70 V line
	8 x 1,250 W, 100 V line

For further details, see our website martin-audio.com.

Other amplifiers

If you use power amplifiers from other manufacturers, the amplifiers must be capable of delivering the necessary power into the combined impedance of the cabinets. Note that many amplifiers suffer sonic degradation when driving low load impedances or, worse still, shut down. You must check the specification of the power amplifiers and conduct listening tests before committing to a very low impedance system design.

With amplifiers from other manufacturers, you will also need a system controller (page 41).

The table below specifies the recommended minimum amplifier rating for each of the CDD speakers.

Model	Rating, AES	Impedance	Minimum amplifier
CDD5	100 W	8 ohms	400 W into 4 ohms
CDD6	150 W	8 ohms	600 W into 4 ohms
CDD8	200 W	8 ohms	800 W into 4 ohms
CDD10	250 W	8 ohms	1,000 W into 4 ohms
CDD12	300 W	8 ohms	1,200 W into 4 ohms
CDD15	400 W	8 ohms	1,600 W into 4 ohms

System controllers

If you use VIA amplifiers (or amplifiers from other manufacturers), you also need a system controller. We recommend the Martin Audio DX4.0, DX0.4 or DX0.6. For further details of these system controllers, see our website martin-audio.com.

If you use an iKON amplifier (iK41, iK42 or iK81), you don't need a separate system controller as these amplifiers have on-board digital processing. For further details of the iKON amplifiers, see our website martin-audio.com.

For each of these system controllers and iKONs (DX4.0, DX0.4, DX0.6, iK41, iK42 or iK81), we provide presets for CDD loudspeakers and SX subwoofers (and other Martin Audio loudspeakers), giving you the best possible performance from your system.

To recall presets with DX4.0 or iKON amplifiers

- Either use our **Vu-Net** software or the front panel of the unit.
  - For details of **Vu-Net**, go to our website martin-audio.com, select **Support** > **Software/Firmware**, scroll to the **Vu-Net** section and click **USER GUIDE**.
  - For details of how to use the front panel, go to our website martin-audio.com, select **Support** > **User Guides**, scroll to the **Electronics** section and click on **DX4.0**, **iK41**, **iK42** or **iK81**.

To recall presets with DX0.4 or DX0.6

- Either use our **DX0.4 and DX0.6 Control Software** or the front panel of the unit.
  - For details of the **DX0.4 and DX0.6 Control Software**, go to our website martin-audio.com, select **Support** > **Software/Firmware**, scroll to the **DX0.4 and DX0.6 Control Software** section and click **USER GUIDE**.
  - For details of how to use the front panel, go to our website martin-audio.com, select **Support** > **User Guides**, scroll to the **Electronics** section and click on **DX0.4** or **DX0.6**.

Using other controllers

If you use controllers from other manufacturers, you need to configure settings such as crossovers, limiters and equalisation points. For details of the settings, see our loudspeaker parameter spreadsheet, which is freely downloadable from the support section of our website martin-audio.com. To find out how to use this spreadsheet, see the instructions included in the spreadsheet or view our video guide.

To download the loudspeaker parameter spreadsheet

1. Go to our website martin-audio.com.
2. Select **Support** > **Loudspeaker Settings**.
3. Scroll to **CURRENT-PRODUCT-PARAMETERS** and click **DOWNLOAD**.

To view the video guide to the parameter spreadsheet

1. Go to our website martin-audio.com.
2. Select **Support** > **Loudspeaker Settings**.
3. Scroll to **PARAMETER VIDEO** and click **VIDEO**.

Subwoofers

You can pair any CDD with any of our SX subwoofers, so you can pair a CDD 5 with an SX218 if you really want to. But some combinations make more sense than others, so we've shown those in the table below:

	CDD5	CDD6	CDD8	CDD10	CDD12	CDD15
SX110	Yes	Yes				
SX210	Yes	Yes	Yes			
SX112	Yes	Yes	Yes	Yes		
SX212	Yes	Yes	Yes	Yes	Yes	
SX115		Yes	Yes	Yes	Yes	
SXC115		Yes	Yes	Yes	Yes	
SX215			Yes	Yes	Yes	Yes
SX118				Yes	Yes	Yes
SXC118				Yes	Yes	Yes
SX218					Yes	Yes

For details of the SX subwoofers, see our website martin-audio.com.

Subwoofer location

SX subwoofers have omnidirectional dispersion characteristics, so the location of the sub can be dictated by convenience and practicality; this is usually somewhere on the floor. With a stereo system it is often only necessary to use a single subwoofer; the active crossover will generate the mono LF feed required.

Weatherised CDDs

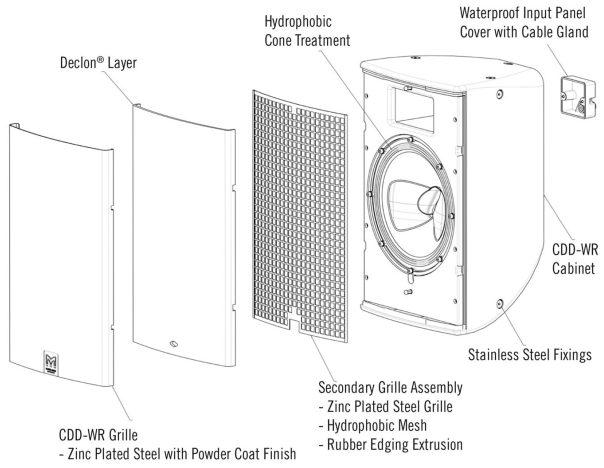
The weatherised versions of CDDs have factory-fitted weather proofing components and are available in black or white. These versions have two additional layers of protection behind the front grille:

1. A Declon® (synthetic fibre) layer.
2. A zinc-plated steel grille assembly with a hydrophobic (water-repellent) coating and a rubber edge extrusion.

In addition:

- The LF driver cone has a hydrophobic coating.
- The rear connection panel is protected by a gasketed cover with a cable gland.
- The fixing points are stainless steel.

The weatherised versions meet environmental testing to IP rating IP54.



Marine CDDs

We've engineered the marine versions of CDD for saltwater environments such as cruise ships and beach-side locations. These versions meet the requirements of IEC 529 to an IP54 level, and we have UV tested to BS EN ISO 4892–2:2013 method A – cycle B, accelerated 1600-hour UV test.

Cabinets

- Cabinet construction consists of an injection moulded back shell. This is fabricated from a durable polypropylene cellulose reinforced composite material, finished with a UV stabilised Plastilack paint.
- Front baffle and cabinet bracing are fabricated from birch plywood, finished with a tough Polyurethane paint with a UV resistant topcoat.
- Baffles are fixed to the cabinet with a 2-part 3M adhesive and A4 stainless screws.
- Internal cabinet braces are fixed using a 2-part 3M adhesive.

Fixings

- External fixings are A4 marine grade stainless steel.
- Internal brackets are 316L stainless steel with A4 stainless steel captive nuts.

Grille

- The grille assembly is a UV resistant, 1.5 mm 316L stainless steel sheet, backed with fine polyester cloth, finished with a nylon reinforced polyester powder coat.
- A layer of Declon and a secondary (316L stainless) grille with a hydrophobic Saati mesh.

Speaker components

- Loudspeaker cone surfaces are coated with a water proofing treatment.

Speaker cabling

- Factory-fitted captive 3 m, two-core 2.5 mm^2 speaker cable sealed with a cable gland and fitted to a 316L stainless steel plate on the rear of the cabinet.

  For the marine 70/100 V line versions of the CDD 8 and 10 (CDD8TX-MAR and CDD10TX-MAR), the factory-fitted cable is five-core 1.5 mm^2 cable rather than two-core. For details, see 70/100 V line versions (page 12).

CDD tilt and pan angles

			Portrait	Landscape, flat side (top) on right, curved side (bottom) on left	Landscape, flat side (top) on left, curved side (bottom) on right
CDD 5	Wall bracket	Down tilt	70°	60°	60°
		Up tilt	25°	45°	45°
		Left pan	45°	45°	30°
		Right pan	45°	30°	45°
	Ceiling bracket	Down tilt	NA	60°	60°
		Up tilt	NA	0°	0°
		Left pan	NA	45°	30°
		Right pan	NA	30°	45°
CDD 6	Wall bracket	Down tilt	25°	20°	20°
		Up tilt	0°	0°	0°
		Left pan	55°	45°	20°
		Right pan	50°	20°	45°
	Ceiling bracket	Down tilt	NA	35°	35°
		Up tilt	NA	0°	0°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 8	Wall bracket	Down tilt	20°	25°	25°
		Up tilt	0°	0°	0°
		Left pan	45°	20°	15°
		Right pan	45°	15°	20°
	Ceiling bracket	Down tilt	NA	35°	35°
		Up tilt	NA	0°	0°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 10	Wall bracket	Down tilt	30°	25°	25°
		Up tilt	0°	0°	0°
		Left pan	40°	20°	15°
		Right pan	45°	15°	20°
	Yoke	Down tilt	NA	90°	90°
		Up tilt	NA	90°	90°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 12	Wall bracket	Down tilt	25°	25°	25°
		Up tilt	0°	0°	0°
		Left pan	45°	25°	15°
		Right pan	40°	15°	25°
	Yoke	Down tilt	NA	90°	90°
		Up tilt	NA	90°	90°

			Portrait	Landscape, flat side (top) on right, curved side (bottom) on left	Landscape, flat side (top) on left, curved side (bottom) on right
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 15	Wall bracket	Down tilt	30°	30°	30°
		Up tilt	0°	0°	0°
		Left pan	54°	34°	21°
		Right pan	53°	21°	34°
	Yoke	Down tilt	NA	90°	90°
		Up tilt	NA	90°	90°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install

CDD weights

CDD speaker weights

CDD5	3.0 kg (6.6 lbs)
CDD5TX-WR, CDD5TX-MAR	3.4 kg (7.5 lbs)
CDD6	5.7 kg (12.5 lbs)
CDD6TX-WR, CDD6TX-MAR	6.8 kg (14.9 lbs)
CDD8	9.5 kg (21.0 lbs)
CDD8-WR, CDD8-MAR	9.8 kg (21.6 lbs)
CDD8TX	11.1 kg (24.5 lbs)
CDD8TX-WR, CDD8TX-MAR	11.4 kg (25.1 lbs)
CDD10	15.3 kg (33.7 lbs)
CDD10-WR, CDD10-MAR	15.5 kg (34.2 lbs)
CDD10TX	16.9 kg (37.2 lbs)
CDD10TX-WR, CDD10TX-MAR	17.1 kg (37.7 lbs)
CDD12	19.0 kg (41.9 lbs)
CDD12-WR, CDD12-MAR	19.8 kg (43.7 lbs)
CDD15	26.0 kg (57.3 lbs)
CDD15-WR, CDD15-MAR	28.3 kg (62.4 lbs)

CDD accessory weights

CDD5	Wall bracket	ASM10001 or ASM10002	0.1 kg (0.3 lb)
	Ceiling bracket	CDDCB5	0.5 kg (1.2 lb)
CDD6	Wall bracket	WB6/8	0.6 kg (1.4 lb)
	Ceiling bracket	CDDCB6/8	1.5 kg (3.4 lb)
CDD8	Wall bracket	WB6/8	0.6 kg (1.4 lb)
	Ceiling bracket	CDDCB6/8	1.5 kg (3.4 lb)
CDD10	Wall bracket	WB10/12	1.3 kg (2.8 lb)
	Yoke	CDDY10	4.1 kg (8.9 lb)
CDD12	Wall bracket	WB10/12	1.3 kg (2.8 lb)
	Yoke	CDDY12	5.5 kg (12.0 lb)
CDD15	Wall bracket	WB15	3.2 kg (7.1 lb)
	Yoke	CDDY15	7.5 kg (16.6 lb)

CDD 5 details

CDD 5 models

CDD5B	Black CDD 5
CDD5W	White CDD 5
CDD5RAL	RAL colour CDD 5
CDD5RALTX	RAL colour 70/100 V line CDD 5
CDD5BTX-WR	Black weatherised 70/100 V line CDD 5
CDD5WTX-WR	White weatherised 70/100 V line CDD 5
CDD5BTX-MAR	Black marine 70/100 V line CDD 5
CDD5WTX-MAR	White marine 70/100 V line CDD 5

CDD 5 specification

Type	Ultra-compact, Coaxial Differential Dispersion passive two-way system
Frequency response[1]	100 Hz – 20 kHz ± 3 dB, –10 dB @ 70 Hz
Driver	LF: 5.25” (130 mm) with 1.25” (32 mm) voice coil, long excursion, ferrite motor system HF: 0.75” (19 mm) voice coil, fabric dome with neodymium motor system
Rated power[2]	100 W AES, 400 W peak
Recommended amplifier	VIA2004, VIA2502, VIA5004, VIA5002, iK41, iK42, iK81
Sensitivity[3]	90 dB
Maximum SPL[3]	110 dB continuous, 116 dB peak, 122 dB peak with crest factor 4
Nominal impedance	8 ohm
Dispersion[4]	120˚–90˚ horizontal 80˚ vertical (user-rotatable)
Crossover	2.5 kHz passive
Enclosure	3 litre, ABS
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see **Accessories** below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see **Accessories** below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M5 inserts for wall and ceiling brackets
Environmental	Weatherised and marine models: IP54
Dimensions	(W) 160 mm x (H) 230 mm x (D) 149 mm (W) 6.3 in x (H) 9.1 in x (D) 5.9 in
Weight CDD5	3.0 kg (6.6 lbs)
Weight CDD5TX-WR, CDD5TX-MAR	3.4 kg (7.5 lbs)
Accessories (supplied)	Standard and weatherised CDD 5, 6 and 8 (not TX, TX-WR or marine) supplied with a Phoenix-style 12 A plug with screw connections (replacement part PSX00006) All CDD 5 models supplied with a weatherised wall bracket (replacement part ASM10001 for white or ASM10002 for black) Weatherised CDD 5 and 6 supplied with a weatherproof cover, screws, gasket seal and cable gland (replacement kit AIPKIT for black or AIPKIT-W for white contains all these parts)
Accessories (optional)	Weatherised ceiling bracket (CDDCB5B for black and CDDCB5W for white) that fits to the wall bracket

[1]On-axis in open space (4 pi) at 1 m.

[2]AES Standard ANSI S4.26-1984.

[3]In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

[4]In open space (4 pi) at 2 m to –6 dB.

CDD 6 details

CDD 6 models

CDD6B	Black CDD 6
CDD6W	White CDD 6
CDD6RAL	RAL colour CDD 6
CDD6RALTX	RAL colour 70/100 V line CDD 6
CDD6BTX-WR	Black weatherised 70/100 V line CDD 6
CDD6WTX-WR	White weatherised 70/100 V line CDD 6
CDD6BTX-MAR	Black marine 70/100 V line CDD 6
CDD6WTX-MAR	White marine 70/100 V line CDD 6

CDD 6 specification

Type	Ultra-compact, Coaxial Differential Dispersion passive two-way system
Frequency response[1]	80 Hz – 20 kHz ± 3 dB, –10 dB @ 70 Hz
Driver	LF: 6.5” (165 mm) with 1.5” (38 mm) voice coil, long excursion, ferrite motor system HF: 1” (25 mm) voice coil, fabric dome with neodymium motor system
Rated power[2]	150 W AES, 600 W peak
Recommended amplifier	VIA2502, VIA5004, VIA5002, iK41, iK42, iK81
Sensitivity[3]	91 dB
Maximum SPL[3]	113 dB continuous, 119 dB peak, 125 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion[4]	110˚–80˚ horizontal 80˚ vertical (user-rotatable)
Crossover	2.5 kHz passive
Enclosure	9 litre, UPM Formi composite material
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see **Accessories** below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see **Accessories** below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	4 x M6 inserts for wall and ceiling brackets
Environmental	Weatherised and marine models: IP54
Dimensions	(W) 210 mm x (H) 325 mm x (D) 210 mm (W) 8.3 in x (H) 12.8 in x (D) 8.3 in
Weight CDD6	5.7 kg (12.5 lbs)
Weight CDD6TX-WR, CDD6TX-MAR	6.8 kg (14.9 lbs)
Accessories (supplied)	Standard and weatherised CDD 5, 6 and 8 (not TX, TX-WR or marine) supplied with a Phoenix-style 12 A plug with screw connections (replacement part PSX00006) Weatherised CDD 5 and 6 supplied with a weatherproof cover, screws, gasket seal and cable gland (replacement kit AIPKIT for black or AIPKIT-W for white contains all these parts)
Accessories (optional)	Weatherised wall bracket for CDD 6 and 8 (WB6/8B for black, WB6/8W for white or WB6/8RAL for RAL colour) Marine wall bracket for CDD 6 and 8 (WB6/8B-MAR for black or WB6/8W-MAR for white) Weatherised ceiling bracket for CDD 6 and 8 (CDDCB6/8B for black, CDDCB6/8W for white or CDDCB6/8RAL for RAL colour)

[1]On-axis in open space (4 pi) at 1 m.

[2]AES Standard ANSI S4.26-1984.

[3]In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

[4]In open space (4 pi) at 2 m to –6 dB.

CDD 8 details

CDD 8 models

CDD8B	Black CDD 8
CDD8W	White CDD 8
CDD8RAL	RAL colour CDD 8
CDD8BTX	Black 70/100 V line CDD 8
CDD8WTX	White 70/100 V line CDD 8
CDD8B-WR	Black weatherised CDD 8
CDD8W-WR	White weatherised CDD 8
CDD8BTX-WR	Black weatherised 70/100 V line CDD 8
CDD8WTX-WR	White weatherised 70/100 V line CDD 8
CDD8B-MAR	Black marine CDD 8
CDD8W-MAR	White marine CDD 8
CDD8BTX-MAR	Black marine 70/100 V line CDD 8
CDD8WTX-MAR	White marine 70/100 V line CDD 8

CDD 8 specification

Type	Ultra-compact, Coaxial Differential Dispersion passive two-way system
Frequency response[1]	70 Hz – 20 kHz ± 3 dB, –10 dB @ 70 Hz
Driver	LF: 8” (200 mm) with 2” (50 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1” (25 mm) exit with 1.4” (38 mm) voice coil, polyimide dome compression driver
Rated power[2]	200 W AES, 800 W peak
Recommended amplifier	VIA2502, VIA5004, VIA5002, iK41, iK42, iK81
Sensitivity[3]	94 dB
Maximum SPL[3]	117 dB continuous, 123 dB peak, 129 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion[4]	110˚–80˚ horizontal 60˚ vertical (user-rotatable)
Crossover	2.3 kHz passive
Enclosure	14 litre, UPM Formi composite material
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see **Accessories** below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see **Accessories** below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M6 inserts for wall and ceiling brackets
Environmental	Weatherised and marine models: IP54
Dimensions	(W) 256 mm x (H) 410 mm x (D) 253 mm (W) 10.1 in x (H) 16.1 in x (D) 10 in
Weight CDD8	9.5 kg (21.0 lbs)
Weight CDD8-WR, CDD8-MAR	9.8 kg (21.6 lbs)
Weight CDD8TX	11.1 kg (24.5 lbs)
Weight CDD8TX-WR, CDD8TX-MAR	11.4 kg (25.1 lbs)
Accessories (supplied)	Standard and weatherised CDD 5, 6 and 8 (not TX, TX-WR or marine) supplied with a Phoenix-style 12 A plug with screw connections (replacement part PSX00006) Weatherised CDD 8 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (all these parts in replacement kit ASF09006)
Accessories (optional)	Weatherised wall bracket for CDD 6 and 8 (WB6/8B for black, WB6/8W for white or WB6/8RAL for RAL colour) Marine wall bracket for CDD 6 and 8 (WB6/8B-MAR for black or WB6/8W-MAR for white) Weatherised ceiling bracket for CDD 6 and 8 (CDDCB6/8B for black, CDDCB6/8W for white or CDDCB6/8RAL for RAL colour)

[1]On-axis in open space (4 pi) at 1 m.

[2]AES Standard ANSI S4.26-1984.

[3]In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

[4]In open space (4 pi) at 2 m to –6 dB.

CDD 10 details

CDD 10 models

CDD10B	Black CDD 10
CDD10W	White CDD 10
CDD10RAL	RAL colour CDD 10
CDD10BTX	Black 70/100 V line CDD 10
CDD10WTX	White 70/100 V line CDD 10
CDD10BTX-WR	Black weatherised 70/100 V line CDD 10
CDD10WTX-WR	White weatherised 70/100 V line CDD 10
CDD10B-WR	Black weatherised CDD 10
CDD10W-WR	White weatherised CDD 10
CDD10BTX-MAR	Black marine 70/100 V line CDD 10
CDD10WTX-MAR	White marine 70/100 V line CDD 10
CDD10B-MAR	Black marine CDD 10
CDD10W-MAR	White marine CDD 10

CDD 10 specification

Type	Compact, Coaxial Differential Dispersion passive two-way system
Frequency response[1]	65 Hz – 20 kHz ± 3 dB, –10 dB @ 55 Hz
Driver	LF: 10" (250 mm) with 2.5" (63.5 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25 mm) exit with 1.4" (38 mm) voice coil, polyimide dome compression driver
Rated power[2]	250 W AES, 1000 W peak
Recommended amplifiers	VIA5002, iK41, iK42, iK81
Sensitivity[3]	96 dB
Maximum SPL[3]	120 dB continuous, 126 dB peak, 132 dB peak with crest factor 4
Nominal impedance	8 ohm
Dispersion[4]	110˚–70˚ horizontal 60˚ vertical (user-rotatable)
Crossover	2.0 kHz passive
Enclosure	28 litre, UPM Formi composite material
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see **Accessories** below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see **Accessories** below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M8 inserts for wall bracket 10 x M8 fly points
Environmental	Weatherised and marine models: IP54
Dimensions	(W) 323 mm x (H) 515 mm x (D) 311 mm (W) 12.7 in x (H) 20.3 in x (D) 12.2 in
Weight CDD10	15.3 kg (33.7 lbs)
Weight CDD10-WR, CDD10-MAR	15.5 kg (34.2 lbs)
Weight CDD10TX	16.9 kg (37.2 lbs)
Weight CDD10TX-WR, CDD10TX-MAR	17.1 kg (37.7 lbs)
Accessories (supplied)	Standard and weatherised CDD 10, 12 and 15 (not TX, TX-WR or marine) supplied with Phoenix-style 20 A plug with screw connections (replacement part PSX00008) Weatherised CDD 10, 12 and 15 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (replacement kit ASF09007 contains all these parts)
Accessories (optional	Weatherised wall bracket for CDD 10 and 12 (WB10/12B for black, WB10/12W for white or WB10/12RAL for RAL colour) Marine wall bracket for CDD 10 and 12 (WB10/12B-MAR for black or WB10/12W-MAR for white) Weatherised yoke assembly (CDDY10B for black or CDDY10W for white) M8 eye bolt for CDD 10, 12 and 15 (HTKCT05)

[1]On-axis in open space (4 pi) at 1 m.

[2]AES Standard ANSI S4.26-1984.

[3]In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

[4]In open space (4 pi) at 2 m to –6 dB.

CDD 12 details

CDD 12 models

CDD12B	Black CDD 12
CDD12W	White CDD 12
CDD12RAL	RAL colour CDD 12
CDD12B-WR	Black weatherised CDD 12
CDD12W-WR	White weatherised CDD 12
CDD12B-MAR	Black marine CDD 12
CDD12W-MAR	White marine CDD 12

CDD 12 specification

Type	Compact, high-output, Coaxial Differential Dispersion passive two-way system
Frequency response[1]	62 Hz – 20 kHz ± 3 dB, –10 dB @ 50 Hz
Driver	LF: 12” (300 mm) with 2.5” (63.5 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1” (25 mm) exit with 1.7” (44 mm) voice coil, polyimide dome compression driver
Rated power[2]	300 W AES, 1200 W peak
Recommended amplifier	VIA5002, iK41, iK42, iK81
Sensitivity[3]	97 dB
Maximum SPL[3]	122 dB continuous, 128 dB peak, 134 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion[4]	110˚–60˚ horizontal 60˚ vertical (user-rotatable)
Crossover	1.9 kHz passive
Enclosure	38 litre Standard models: marine grade birch plywood Weatherised and marine models: UPM Formi composite material
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see **Accessories** below) Weatherised models: connections as above (standard or TX) with weatherproof cover (see **Accessories** below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M8 inserts for wall bracket 10 x M8 fly points
Environmental	Weatherised and marine models: IP54
Dimensions	(W) 357 mm x (H) 571 mm x (D) 348 mm (W) 14.1 in x (H) 22.5 in x (D) 13.7 in
Weight CDD12	19.0 kg (41.9 lbs)
Weight CDD12-WR, CDD12-MAR	19.8 kg (43.7 lbs)
Accessories (supplied)	Standard and weatherised CDD 10, 12 and 15 (not TX, TX-WR or marine) supplied with Phoenix-style 20 A plug with screw connections (replacement part PSX00008) Weatherised CDD 10, 12 and 15 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (replacement kit ASF09007 contains all these parts)
Accessories (optional)	Weatherised wall bracket for CDD 10 and 12 (WB10/12B for black, WB10/12W for white or WB10/12RAL for RAL colour) Marine wall bracket for CDD 10 and 12 (WB10/12B-MAR for black or WB10/12W-MAR for white) Weatherised yoke assembly (CDDY12B for black or CDDY12W for white) M8 eye bolt for CDD 10, 12 and 15 (HTKCT05)

[1]On-axis in open space (4 pi) at 1 m.

[2]AES Standard ANSI S4.26-1984.

[3]In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

[4]In open space (4 pi) at 2 m to –6 dB.

CDD 15 details

CDD 15 models

CDD15B	Black CDD 15
CDD15W	White CDD 15
CDD15RAL	RAL colour CDD 15
CDD15B-WR	Black weatherised CDD 15
CDD15W-WR	White weatherised CDD 15
CDD15B-MAR	Black marine CDD 15
CDD15W-MAR	White marine CDD 15

CDD 15 specification

Type	High-output, Coaxial Differential Dispersion passive two-way system
Frequency response[1]	55 Hz – 20 kHz ± 3 dB, –10 dB @ 45 Hz
Driver	LF: 15" (380 mm) with 3" (75 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1.4" (32 mm) exit with 3" (75 mm) voice coil, titanium dome compression driver
Rated power[2]	400 W AES, 1600 W peak
Recommended amplifier	VIA5002, iK41, iK42, iK81
Sensitivity[3]	100 dB
Maximum SPL[3]	126 dB continuous, 132 dB peak, 138 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion[4]	110°–60° horizontal 60° vertical (user-rotatable)
Crossover	1.6 kHz passive
Enclosure	68 litre Standard models: marine grade birch plywood Weatherised and marine models: UPM Formi composite material
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see **Accessories** below) Weatherised models: connections as above with weatherproof cover (see **Accessories** below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M8 inserts for wall bracket 10 x M8 fly points
Environmental	Weatherised and marine models: IP54
Dimensions	(W) 425 mm x (H) 691 mm x (D) 411 mm (W) 16.7 in x (H) 27.2 in x (D) 16.2 in
Weight CDD15	26.0 kg (57.3 lbs)
Weight CDD15-WR, CDD15-MAR	28.3 kg (62.4 lbs)
Accessories (supplied)	Standard and weatherised CDD 10, 12 and 15 (not TX, TX-WR or marine) supplied with Phoenix-style 20 A plug with screw connections (replacement part PSX00008) Weatherised CDD 10, 12 and 15 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (replacement kit ASF09007 contains all these parts)
Accessories (optional)	Weatherised wall bracket (WB15B for black or WB15W for white) Weatherised yoke assembly (CDDY15B for black or CDDDY15W for white) M8 eye bolt for CDD 10, 12 and 15 (HTKCT05)

[1]On-axis in open space (4 pi) at 1 m.

[2]AES Standard ANSI S4.26-1984.

[3]In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

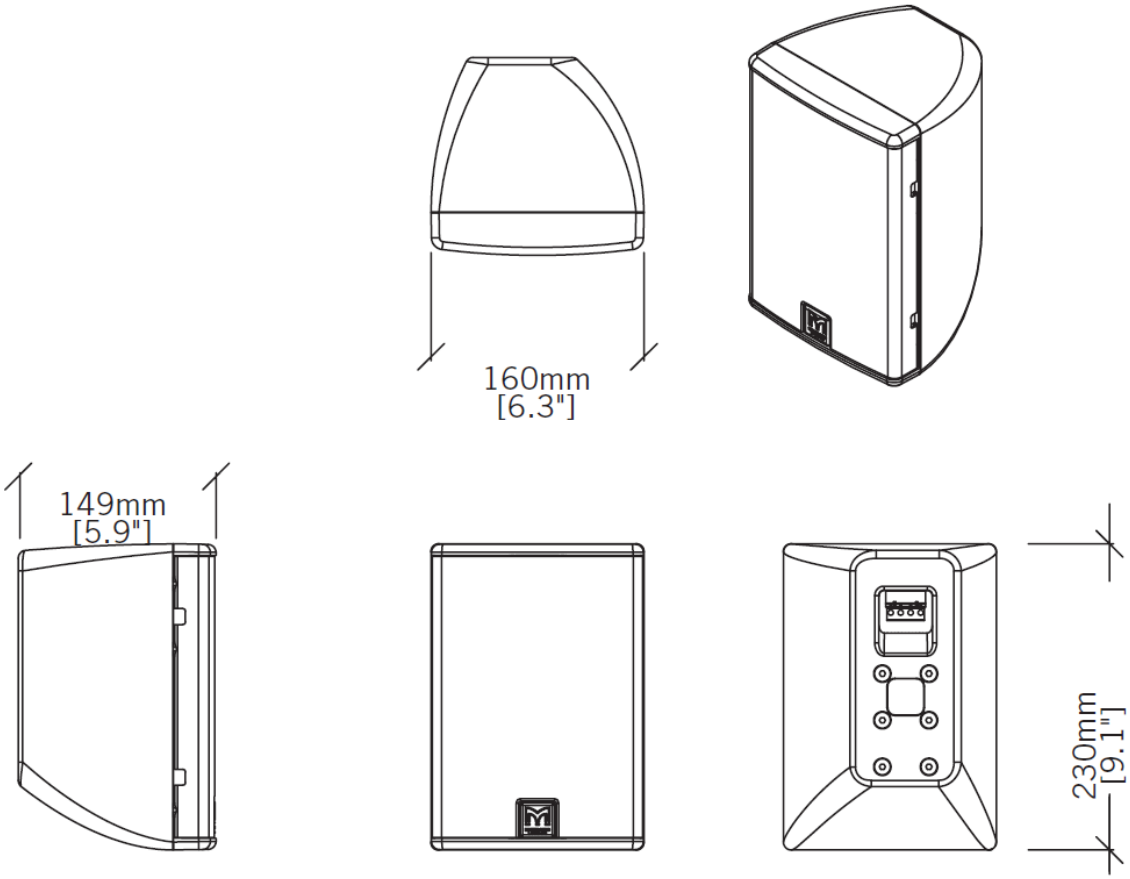
[4]In open space (4 pi) at 2 m to –6 dB.

Technical drawings

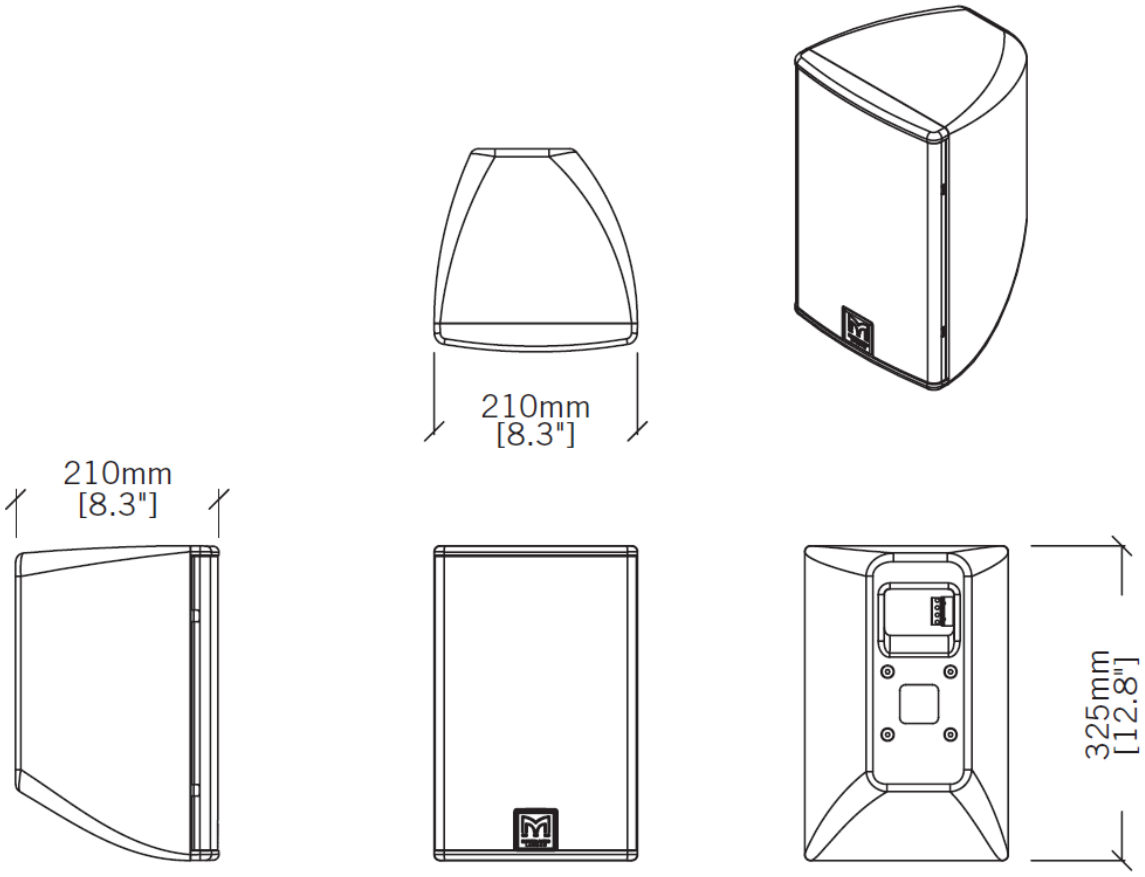
The following drawings show standard CDD speakers. The weatherised and marine versions have the same dimensions but have a weatherproof cover over the connector panel on the rear.

To download files to use in CAD software, see DWG files (page 16).

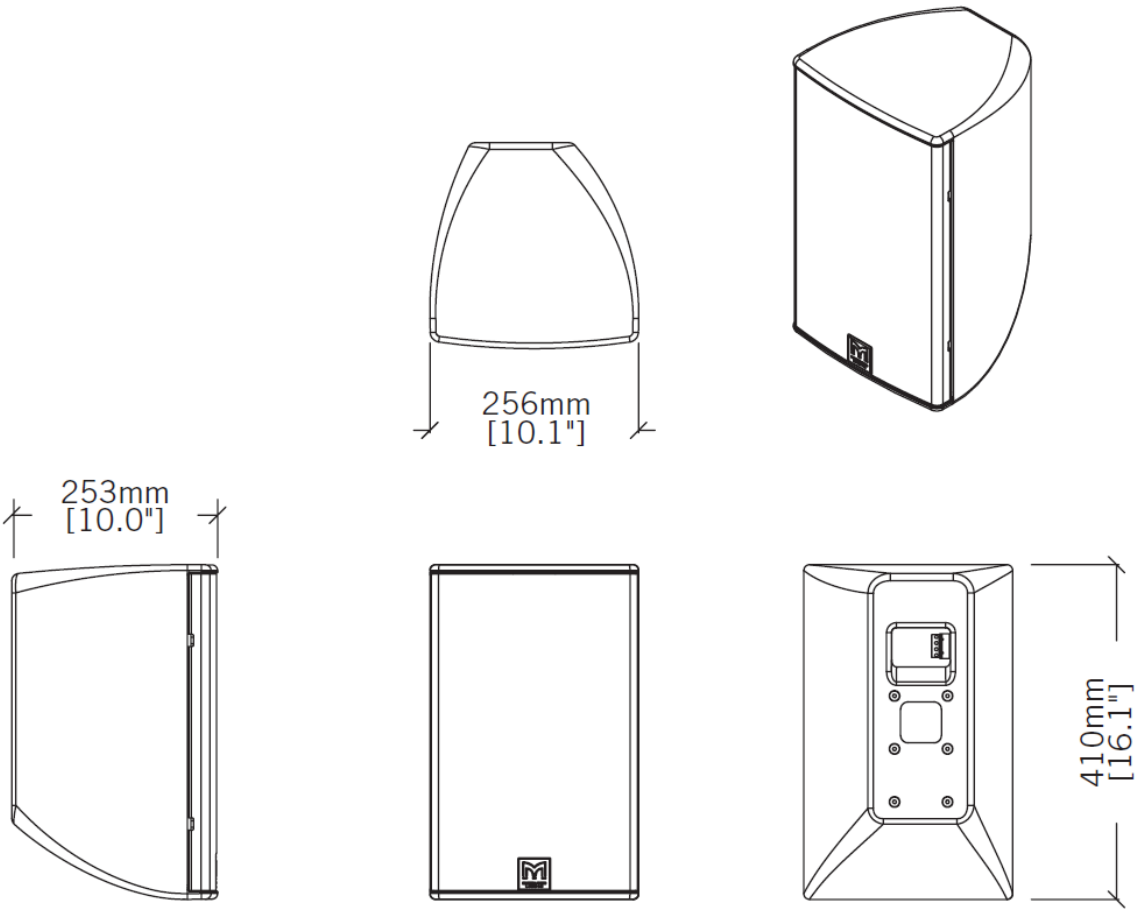
CDD 5



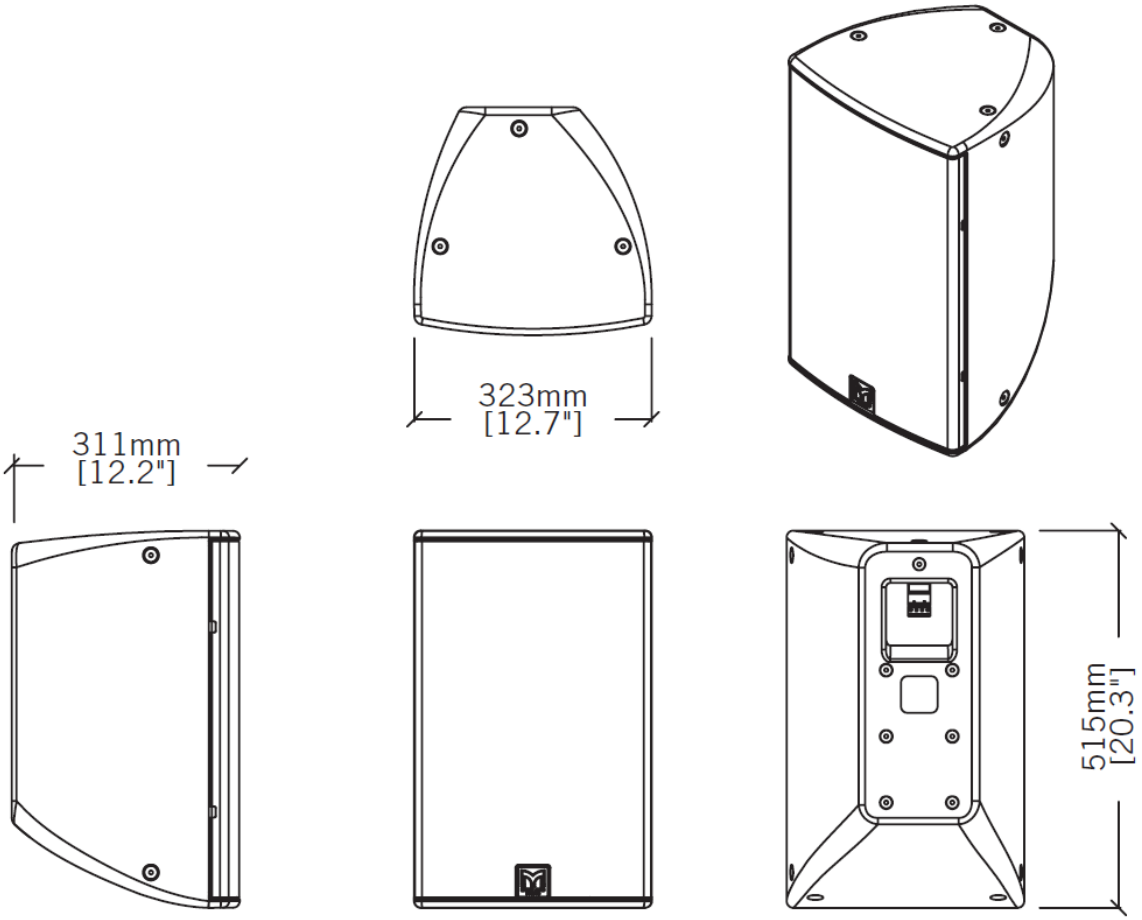
CDD 6



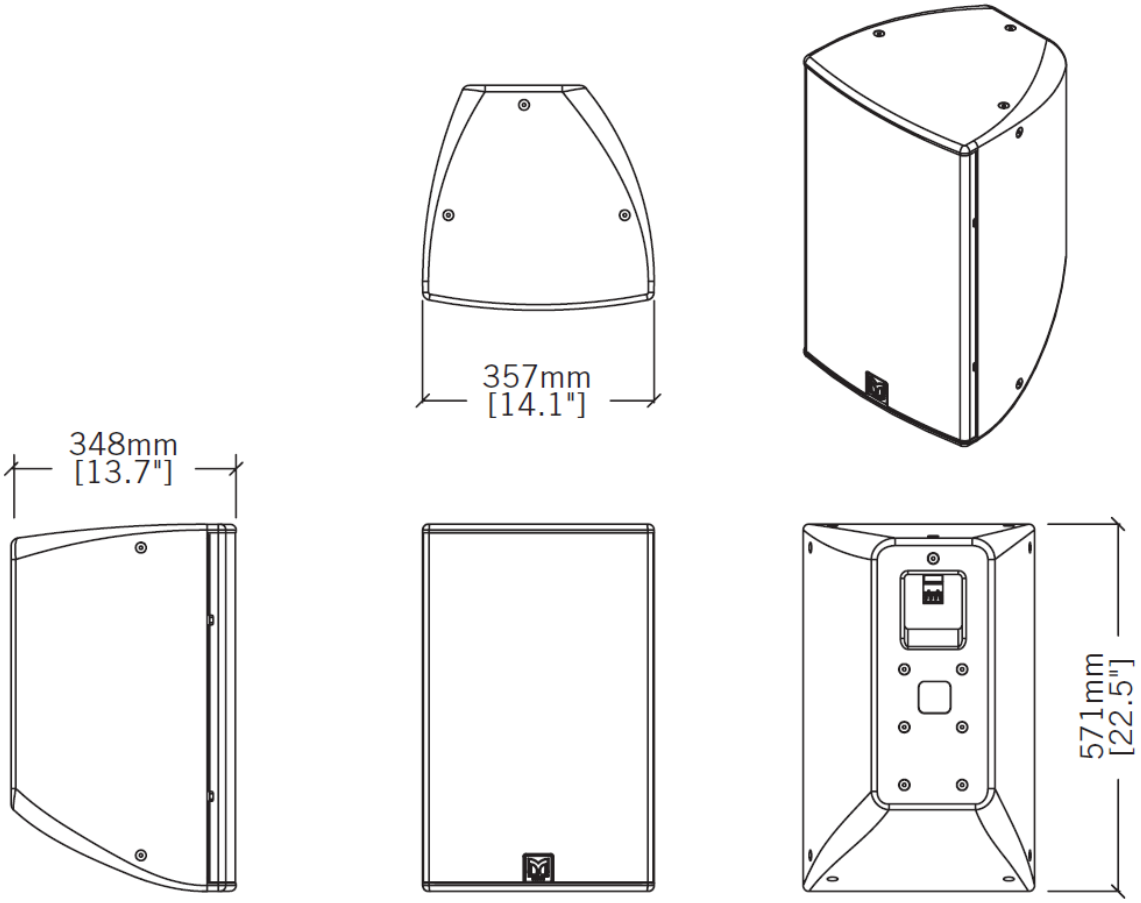
CDD 8



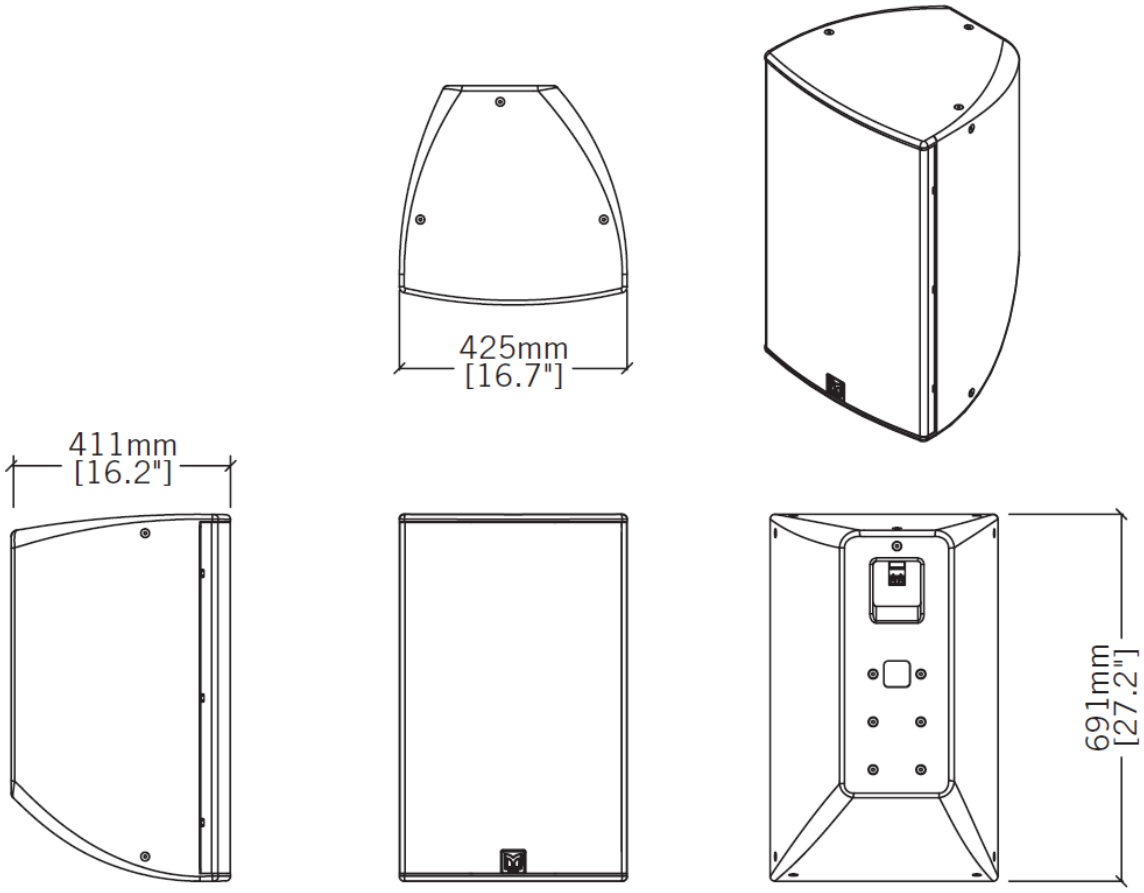
CDD 10



CDD 12



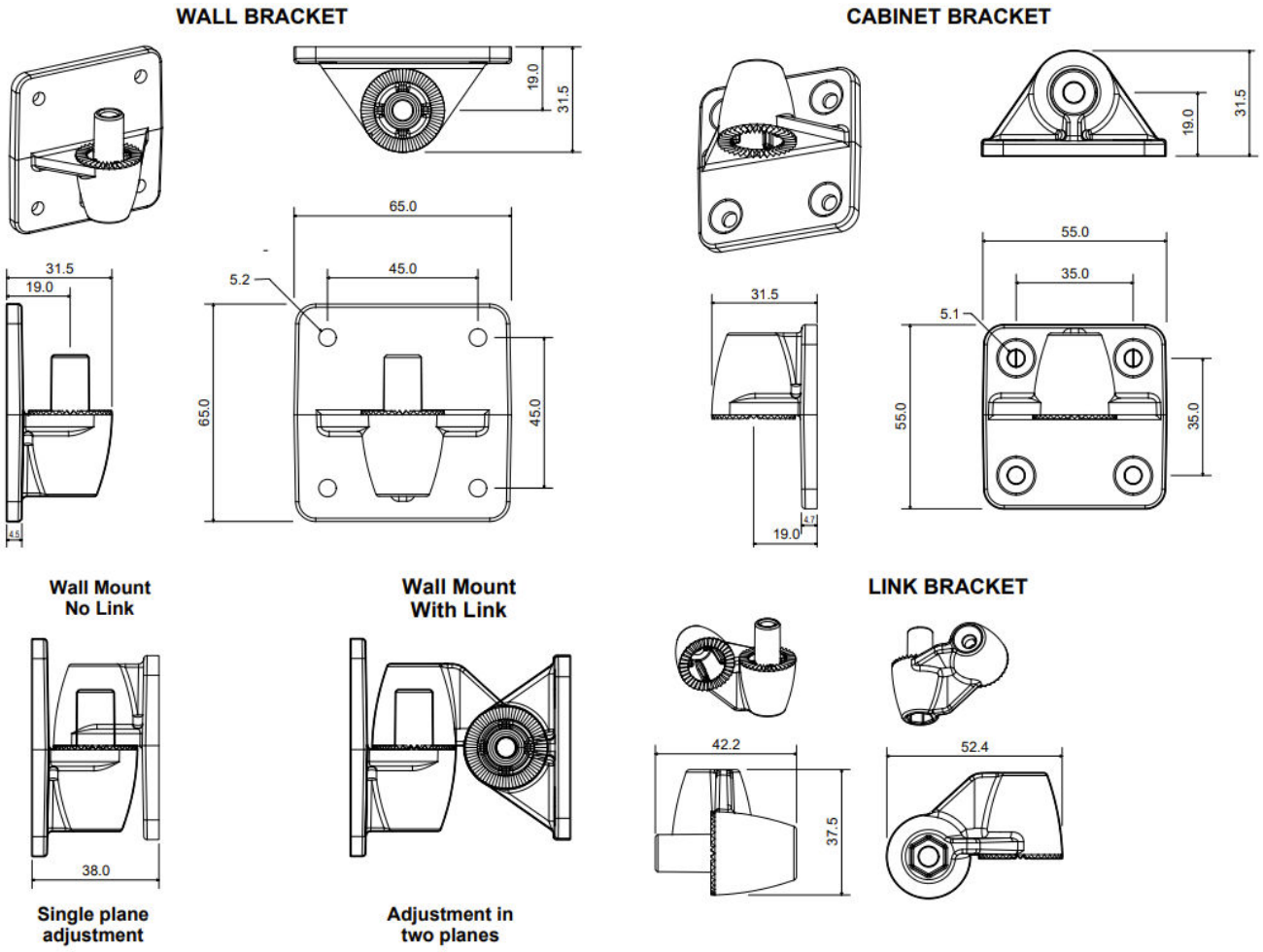
CDD 15



Wall bracket for CDD 5 (white ASM10001 and black ASM10002)

Wall fixing (square section with peg): four 5.2 mm (0.2 in) holes.

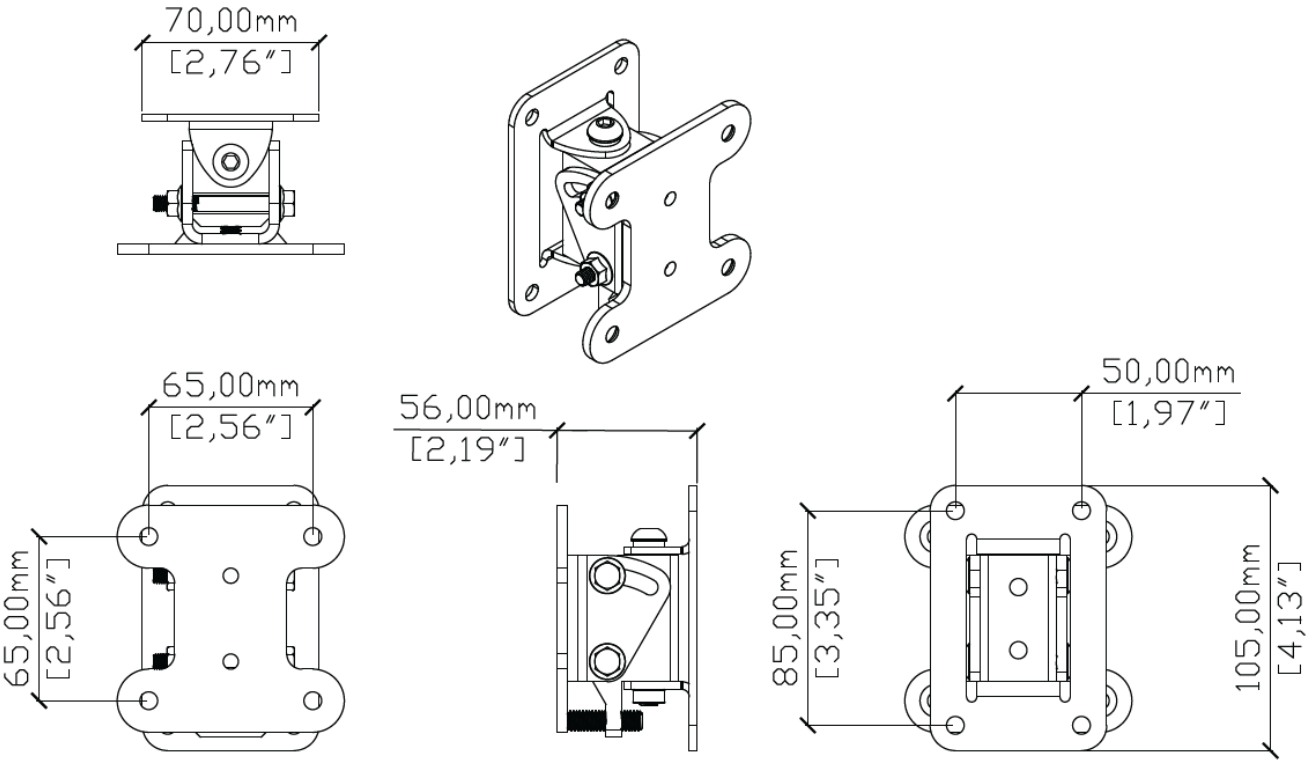
Bracket provides tilt and pan with link section installed.



Wall bracket for CDD 6 and 8 (WB6/8)

Wall fixing (the rectangular section): four 7 mm (0.28 in) holes.

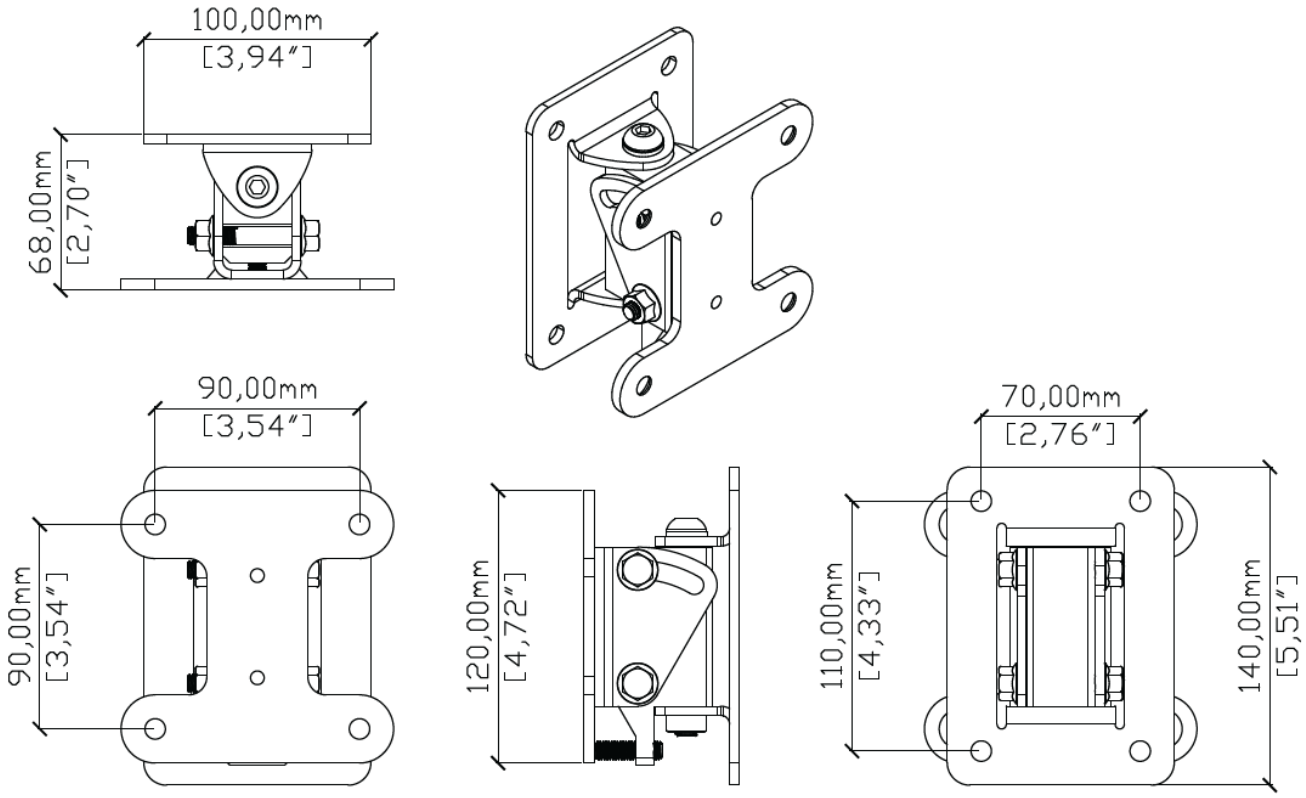
Bracket provides tilt and pan.



Wall bracket for CDD 10 and 12 (WB10/12)

Wall fixing (the rectangular section): four 9 mm (0.35 in) holes.

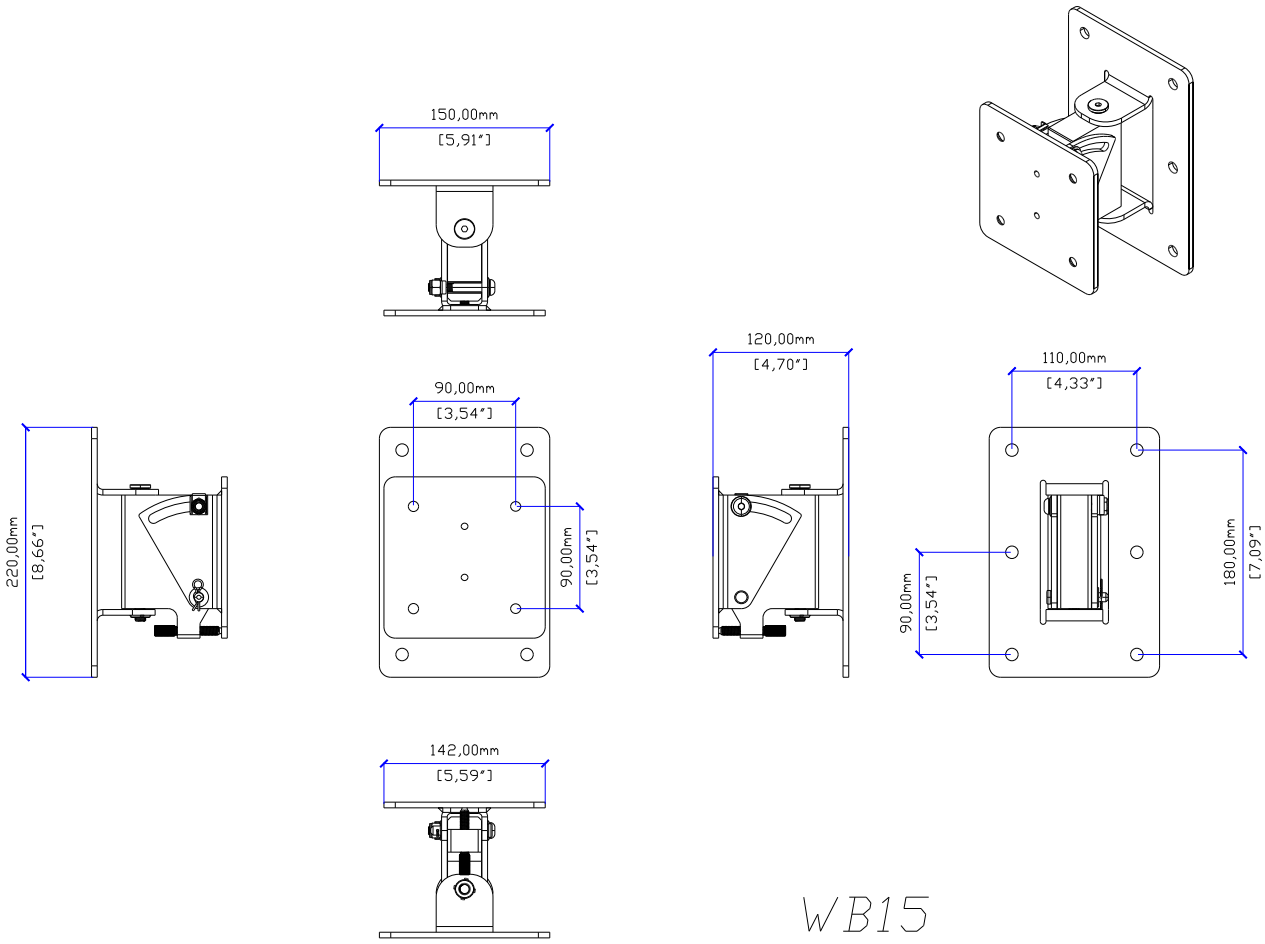
Bracket provides tilt and pan.



Wall bracket for CDD 15 (WB15)

Wall fixing (the rectangular section): six 11 mm (0.43 in) holes.

Bracket provides tilt and pan.

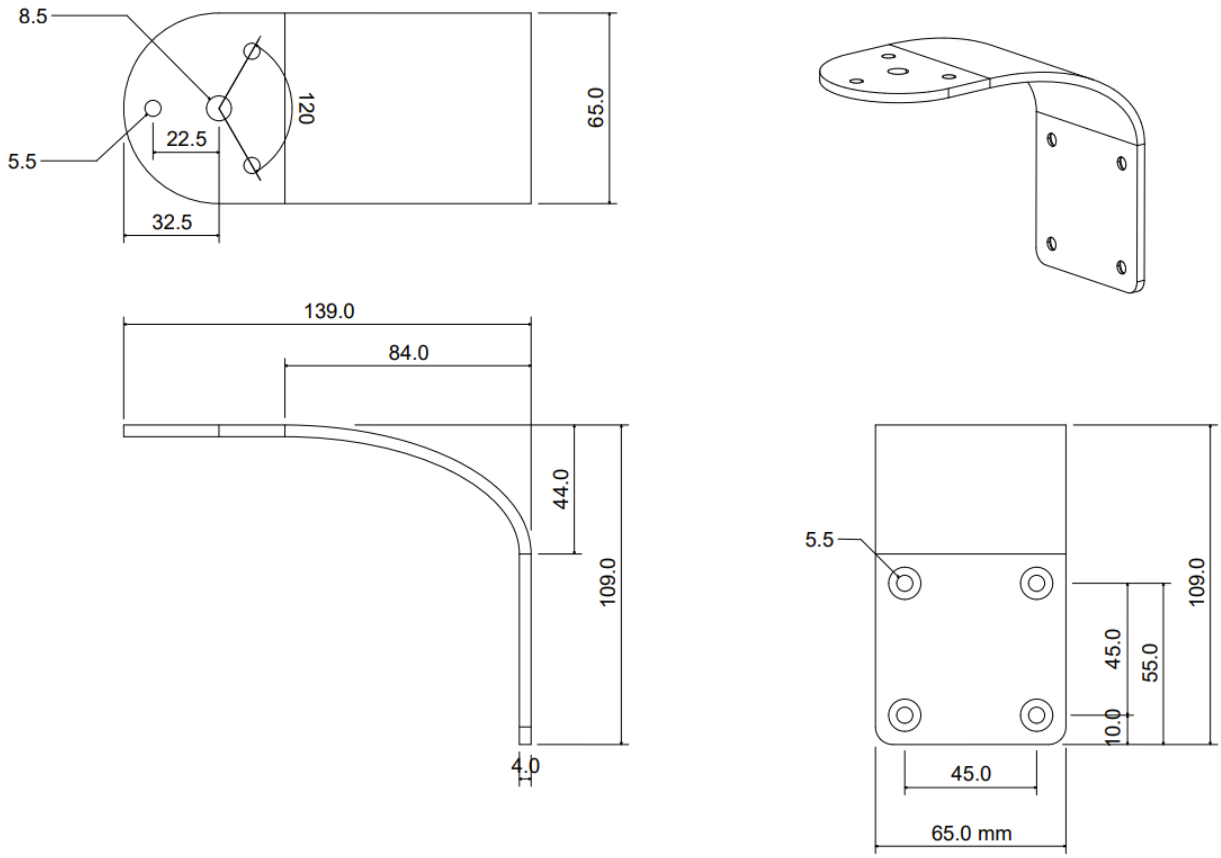


Ceiling bracket for CDD 5 (CDDCB5)

Ceiling fixing: three 5.5 mm (0.22 in) holes and central 8.5 mm (0.33 in) hole (optional fixing).

Requires attachment of wall bracket supplied with speaker.

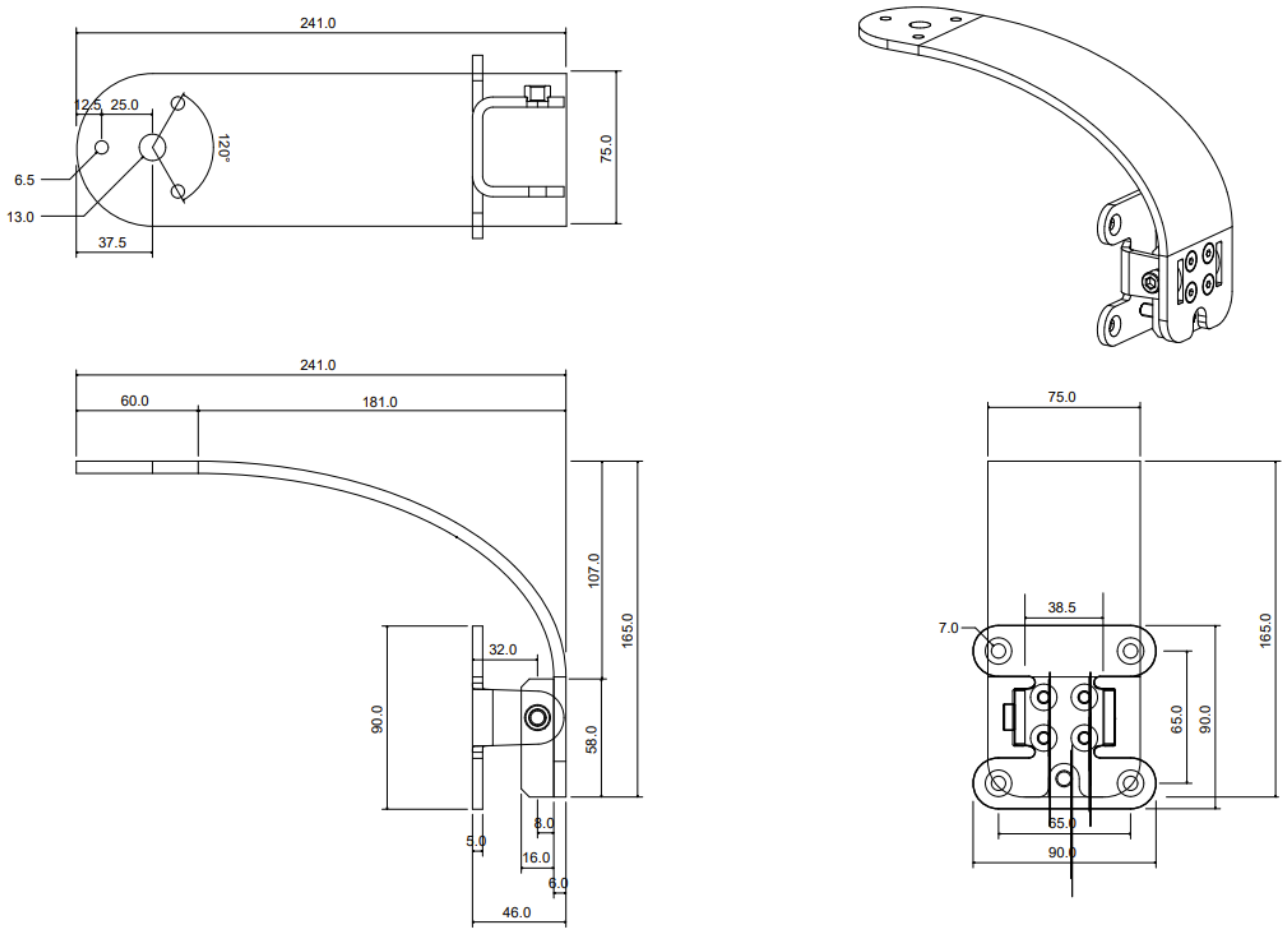
Wall bracket provides tilt and pan.



Ceiling bracket for CDD 6 and 8 (CDDCB6/8)

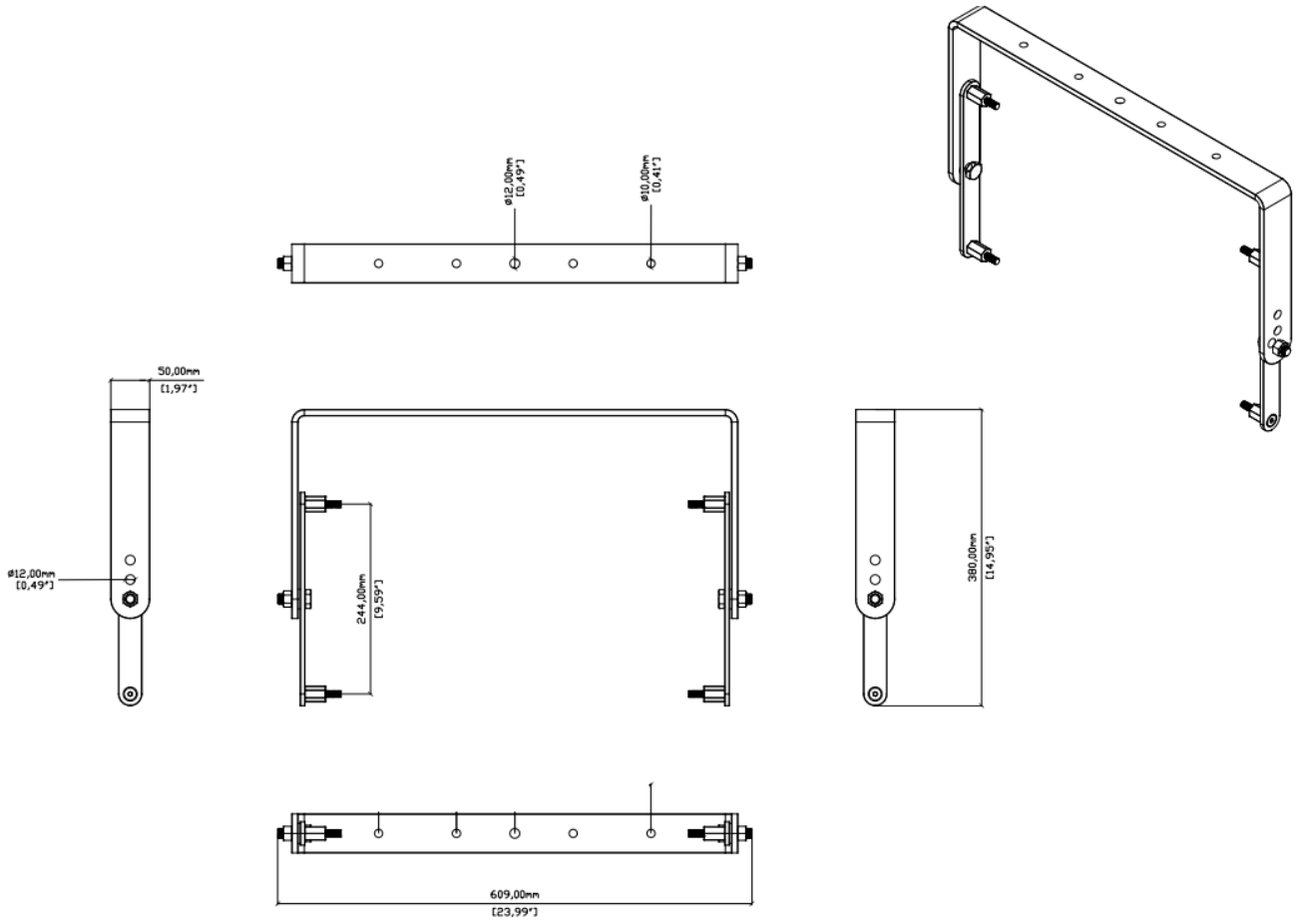
Ceiling fixing: three 6.5 mm (0.26 in) holes and central 13 mm (0.51 in) hole (optional fixing).

Bracket allows adjustment to tilt.



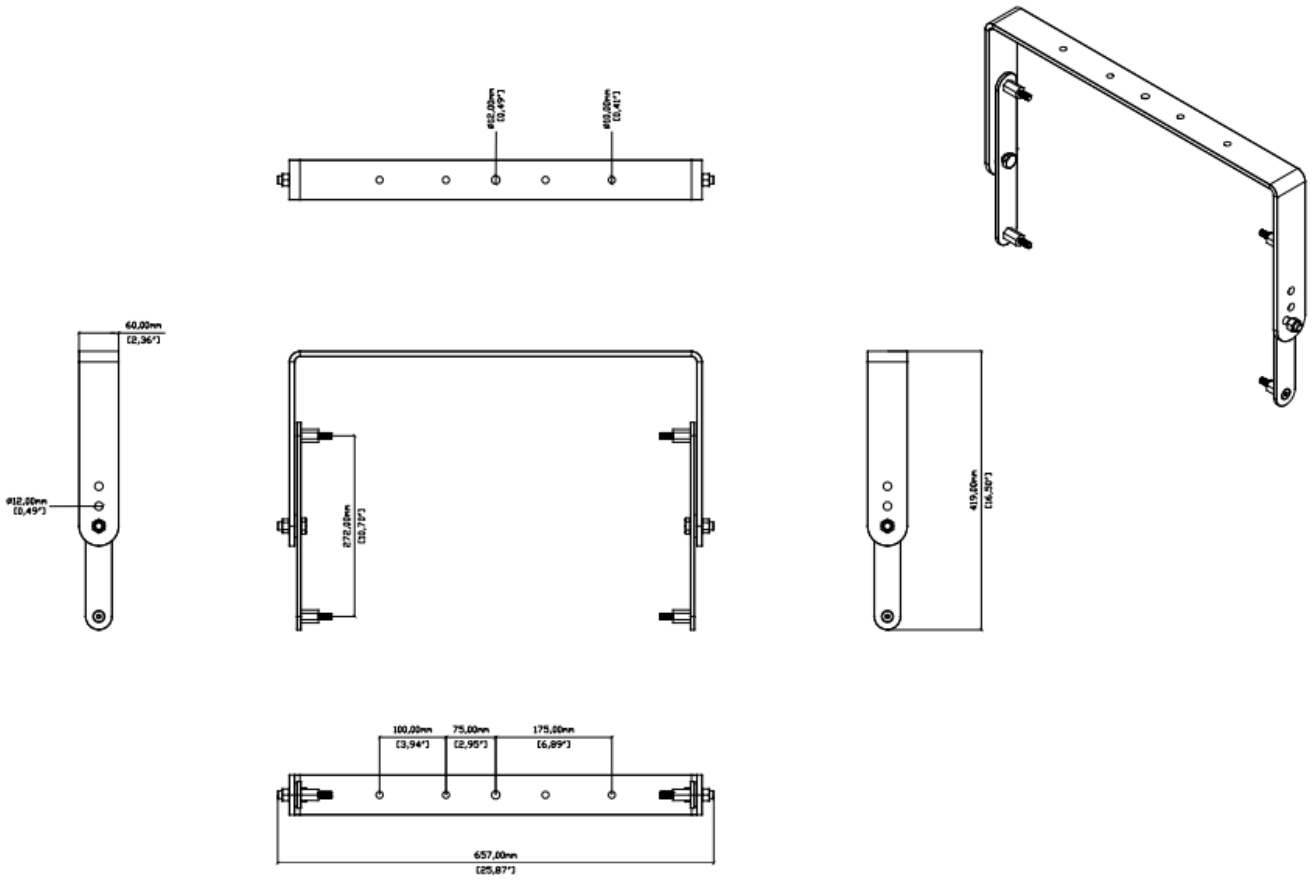
Yoke for CDD 10 (CDDY10)

Ceiling fixing: four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole (optional fixing)



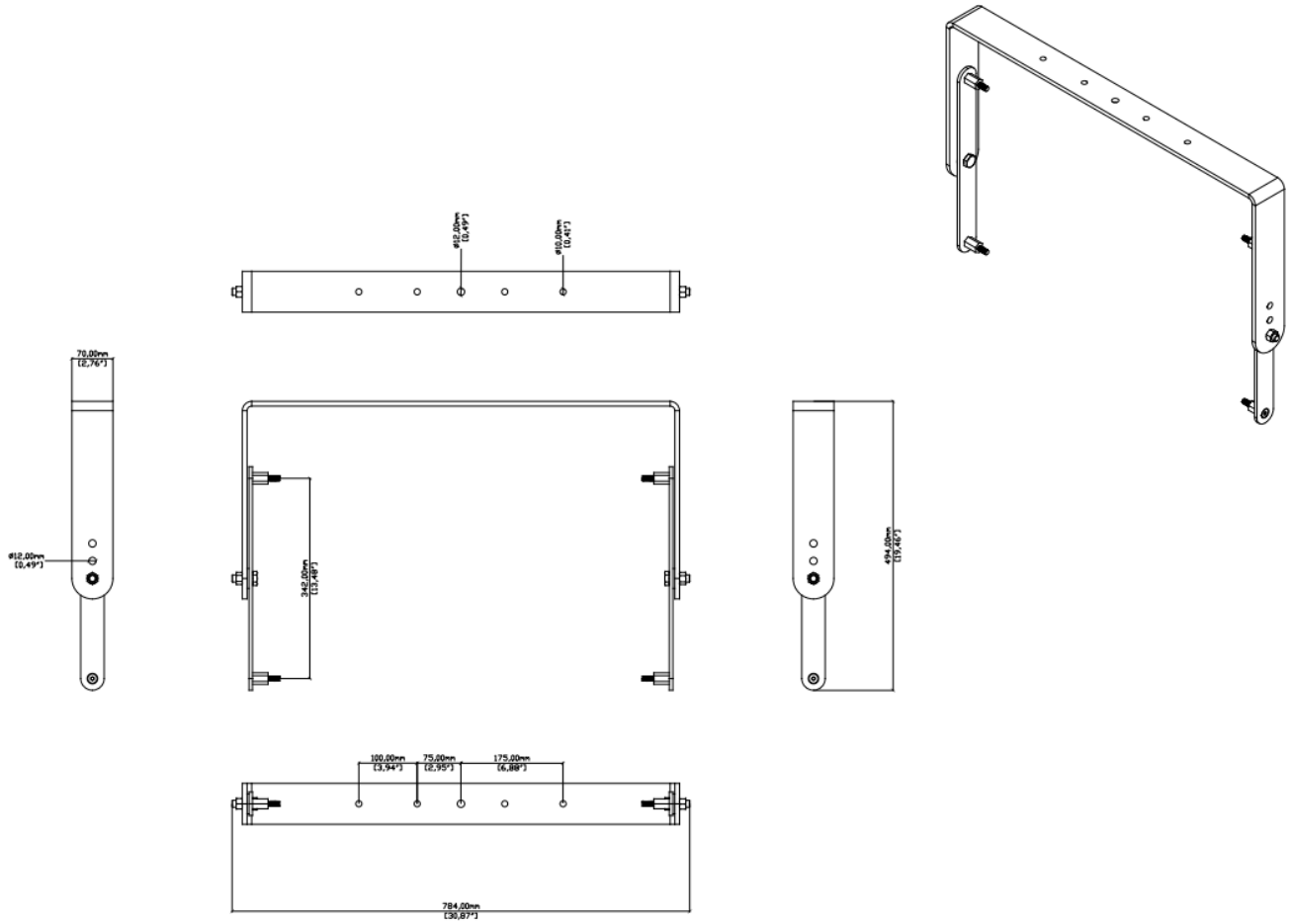
Yoke for CDD 12 (CDDY12)

Ceiling fixing: four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole (optional fixing)



Yoke for CDD 15 (CDDY15)

Ceiling fixing: four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole (optional fixing)



Troubleshooting

- Sound coverage not as expected. Check the orientation of the driver (page 9).
- Sound not right. Check the input and output connectors to make sure you have plugged them completely into the sockets. Check the sound quality with headphones at the amplifier or preamp.

Technical support

- For technical support, contact either your supplier or Martin Audio technical support.
- For Martin Audio technical support, go to our website martin-audio.com and select **Support** > **Support Contacts**.

Service

- For service details, go to our website martin-audio.com and select **Support** > **Service & Returns**.

Warranty

- For warranty details, go to our website martin-audio.com and select **Support** > **Service & Returns**.

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