

RCF MR 55 CCD MONITOR SPEAKER Instruction Manual

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RCF MR 55 CCD Monitor Speaker



COMPACT CONSTANT DIRECTIVITY MONITOR SPEAKER

Safety first!!

Before installing and using this product, please read this instruction manual carefully and keep it on hand for future reference. Follow all the instructions in the letter.

WARNING: This product has been designed for installation only by qualified personnel having the technical know-how and experience or specific instructions to ensure correct execution of all the operations involved and to prevent any risk to personal safety. There are numerous factors that must be taken into consideration when installing a professional sound system, including mechanical and electrical evaluations as well as studies related to coverage and acoustic performance. Therefore strongly recommend that you have this product installed only by professional installers or specialized firms.

1. **Attention to the precautions** – Always follow the precautions provided on this product and in the instruction manual.
2. **Water and humidity** – Do not use this product near water; for example, in the vicinity of a bathtub or sink, in a damp cellar, near a swimming pool, etc.
3. **Foreign bodies and liquids** – Be careful not to allow any foreign bodies or liquids to get into this product.
4. **Technical service** – The user should never attempt to make any repairs on this product unless otherwise indicated in the instruction manual. All repairs should be made by qualified service technicians.
5. **Installation** – Do not install this product in any way that is not provided for in the instruction manual.
6. **Stacking multiple units** – To prevent the danger of falling equipment, never stack multiple units of this product unless this possibility is expressly indicated in the instructions.
7. **Respect the safety standards** – The entire sound system must be created in compliance with the current standards and laws regarding electrical systems.
8. **Specifications** – When installing and using this product, keep in mind the technical specifications indicated in the dedicated section of this instruction manual.
9. **Accessories** – Install and use this product only with the accessories specified by the manufacturer or supplied with the product.



Hearing loss – Exposure to high sound levels can cause permanent hearing loss. The sound pressure level that leads to hearing loss varies considerably from one person to another and depends on the duration of exposure. The U.S. Government's Occupational Safety and Health Administration (OSHA) has established the maximum sound pressure levels that can be withstood without causing damage, which is shown in the table below. According to the OSHA regulations, any exposure over the maximum limits indicated in the table can reduce the hearing capacity of a person. To prevent potentially dangerous exposure to high sound pressure levels, anyone subjected to such levels must use suitable protection. When a product capable of producing high sound levels is being used, it is, therefore, necessary to wear earplugs or protective earphones when the limits shown in the table are exceeded.

Durata per giorno (ore)	Livello sonoro (dBA)	Esempio tipico
8	90	Duetto in un piccolo club
6	92	
4	95	Treno della metropolitana
3	97	
2	100	Musica classica riprodotta ad alto volume
1,5	102	
1	105	
0,5	110	
0,25 o meno	115	Pezzi “ tirati” di un concerto rock

Unpacking the speaker

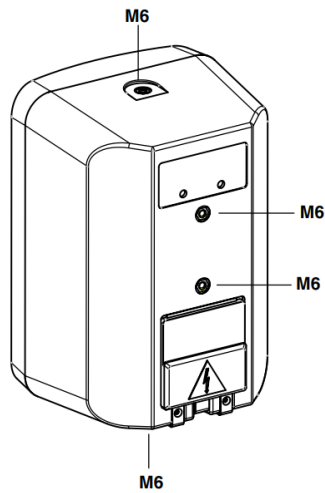
Remove the speaker carefully from its packaging to avoid damaging it. Should the speaker appear to be damaged, put it back in the original packaging and take it immediately to your dealer or to the nearest RCF S.p.A.

Description

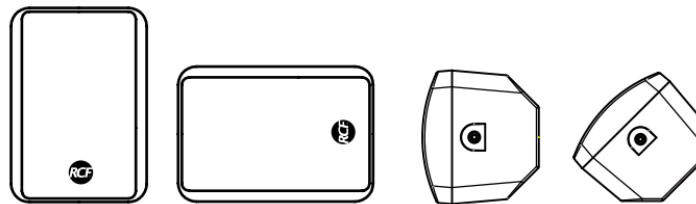
- The MONITOR 55 (Black) and MONITOR 55W (White) are compact two-way speaker systems designed for a constant-impedance system. The 5" (130 mm) carbon fiber woofer, in combination with a 0.75" (19 mm) soft dome tweeter mounted on a 110° x 110° constant directivity horn, provides natural, smooth sound reproduction, ideal for use in business music systems and indoor/outdoor background music applications.
- The passive crossover is designed to reduce heat dissipation and optimize the power response of the loudspeaker. The connections are made using gold-plated banana terminals or bipolar cables having a suitable cross-section.
- The enclosure is constructed of high-density plastic, with M6 threaded inserts for use with the optional mounting hardware, and includes a protective perforated steel grille.

Installation

- The special hexagonal shape of the cabinet makes it possible to position the speaker in various ways, as shown in the figure. The RCF plate on the front protective grille can be rotated to adapt it to the position of the speaker.
- The speaker body has four M6 threaded inserts, one each on the top and bottom and two on the back, used for attaching accessories for installing the speaker in different ways.
- The MONITOR 55 and MONITOR 55W speakers are supplied with a black (white) ball joint support for wall mounting.



WARNING – Consult a professional rigger or structural engineer prior to suspending loudspeakers from a structure not intended for that use. Always know the working load limit of the structure supporting the loudspeaker array. Always make sure that the rigging hardware minimum rating is at least five times the actual load.

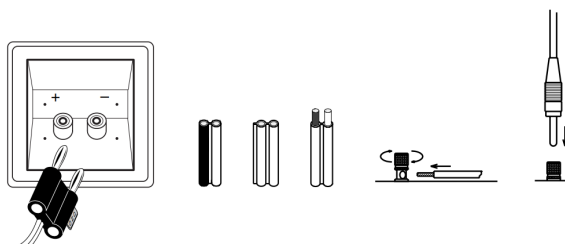


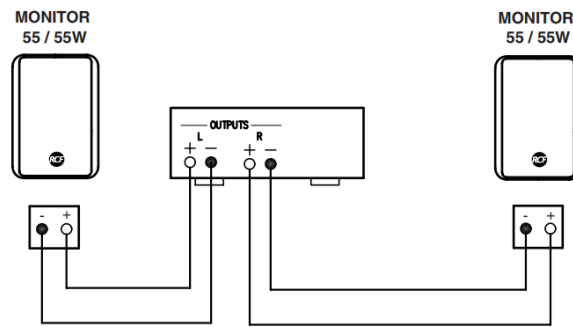
Connections

- The gold-plated banana jacks are designed to accept single or double banana plugs and two-pole cables. They provide a method of quickly connecting and disconnecting speaker cables to and from the speaker. Double banana plugs have a tab on own side to indicate the ground (GND) side of the connector.
- The side connects to the negative (-) terminal. If you use bipolar cables, we recommend choosing cables that have a suitable cross-section (maximum diameter 6mm), as poor-quality cables or those of unsuitable size may cause power loss and sound degradation.

Phasing

- For the best musical reproduction, it is essential that the speakers be connected in phase.
- For this purpose, the terminals of the MONITOR are marked with red (+) or black (-) rings.
- Make sure that you connect the terminal with a red ring to the corresponding speaker terminal on the amplifier (+, POS), and follow the same procedure for the terminal with the black ring.
- In general, remember that the speaker positioned to the right of the ideal listening point must be connected to the RIGHT channel of the amplifier and the speaker on the left to the LEFT channel.





Specifications

- **Enclosure:** 2-way reflex system
- **Long-Term Power Handling:** 175 W (IEC268-1)
- **Frequency Response:**
 - 65 – 23,000 Hz ± 2 dB
 - 55 – 25,000 Hz -10 dB
- **Sensitivity (1W / 1m):** 87dB SPL in anechoic chamber
- **Max SPL:** 109.5 dB 1 m in an anechoic chamber (175 W IEC Long-Term)
- **Impedance:** 4 ohm
- **Crossover Frequency:** 3000 Hz
- **Crossover:** 12/18 dB/oct low impedance compensated crossover
- **Components:**
 - Low Frequency: 5" (130 mm) carbon fiber woofer
 - High Frequency: 0.75" (19 mm) driver loaded by 110° x 110° constant directivity horn
- **Tuning Frequency:** 65 Hz
- **Coverage Angle:** 110° x 110° (horn directivity)
- **Protection:** Dynamic on tweeter
- **Enclosure Material:** High-density plastic
- **Dimensions (L x H x P):** 7.36" x 10.62" x 6.77" (187 x 270 x 172 mm)
- **Internal Volume:** 4.5 l
- **Color:**
 - Matt Black (MONITOR 55)
 - White (MONITOR 55W)
- **Weight:** 3.9 kg (8.6 lb)
- **Connectors:** Gold-plated terminals
- **Application:** Indoor – Outdoor

Long-term maximum input power is determined by submitting the speakers to a power test lasting 1 hour, in which a special signal (IEC268-1) is applied 20 times for 1 minute each, with an interval of 2 minutes between one application and the next. The special signal is generated by filtering pink noise with a weighting device that makes a cut with a 12 dB/octave slope below 55 Hz and above 5 kHz and maintains the 6 dB peak/average ratio. The maximum power the speaker is able to withstand without any permanent damage is taken as the value of long-term maximum input power.

Disclaimer

- RCF S.p.A. applies a company policy based on constant research and development. With the aim of constantly improving our products, we reserve the right to make any aesthetic or functional modifications at any time and without prior notice.
- RCF is a registered trademark of RCF S.p.A.
- Any other trademark mentioned herein is a trademark or registered trademark of the respective owners, who we gratefully acknowledge.
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Contact Information

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FAQs

Is the RCF MR 55 CCD Monitor Speaker suitable for outdoor use?

Yes, the RCF MR 55 CCD Monitor Speaker is designed for both indoor and outdoor use. It can be used in a variety of settings.

What is the power handling capacity of this speaker?

The RCF MR 55 CCD Monitor Speaker has a long-term power handling capacity of 175 W (IEC268-1).

What is the frequency response of this speaker?

The frequency response of this speaker is 65 – 23,000 Hz ± 2 dB, and it can go as low as 55 – 25,000 Hz at -10 dB.

What is the sensitivity of this speaker?

The sensitivity of the RCF MR 55 CCD Monitor Speaker is 87dB SPL in an anechoic chamber.

Can I stack multiple units of this speaker?

To prevent the danger of falling equipment, it is not recommended to stack multiple units of this speaker unless expressly indicated in the instructions.

How should I connect the speaker cables to this speaker?

The speaker has gold-plated banana terminals that are designed to accept single or double banana plugs and two-pole cables. Make sure to connect them correctly with red (+) or black (-) rings to ensure proper

phasing.

What is the internal volume of the speaker?

The internal volume of the RCF MR 55 CCD Monitor Speaker is 4.5 liters.

Can I use this speaker for music in a small club or as part of a larger sound system?

Yes, this speaker is suitable for various applications, including use in small clubs and as part of a larger sound system.

How should I position the speaker for optimal sound?

The hexagonal shape of the cabinet allows for various positioning options. The RCF plate on the front protective grille can be rotated to adapt to the speaker's position.

Are there any safety precautions I should be aware of when using this speaker?

Yes, please follow all safety precautions provided in the instruction manual, including avoiding exposure to high sound levels that could cause hearing loss.

Can I make any modifications to the speaker?

It is not recommended to make any modifications to the speaker unless otherwise indicated in the instruction manual. All repairs should be done by qualified service technicians.

What should I do if the speaker appears to be damaged upon unpacking?

If the speaker appears to be damaged upon unpacking, put it back in the original packaging and contact your dealer or RCF S.p.A. immediately.

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