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**MX MX CS-4 L**

# MX CS-4 L 4-Inch Ceiling Speaker with LED Light User Manual

Model: MX CS-4 L

## 1. PRODUCT OVERVIEW

The MX CS-4 L is a 4-inch ceiling speaker designed for seamless integration into various environments, providing both audio output and ambient LED lighting. This speaker features a durable ABS frame and a high-compliance polymer cone for clear sound reproduction. It is suitable for a wide range of applications including homes, offices, and public address systems.

### Key Features:

- Excellent Frequency Response.
- Premium flush mount design with stylish grill.
- Lightweight and stiff polymer cones for damping and bass response.
- Integrated 5 Watt White LED Bulb.
- Bluetooth connectivity for wireless control.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Electrical Safety:** Ensure power is disconnected at the main circuit breaker before performing any installation or wiring. All wiring should be performed by a qualified electrician in accordance with local electrical codes.
- Installation Location:** Install speakers in a location that can structurally support their weight. Avoid installing near heat sources, in direct sunlight, or in areas with excessive moisture.
- Ventilation:** Ensure adequate ventilation around the speaker to prevent overheating.
- Handling:** Handle the speaker carefully to avoid damage to the cone or housing.

## 3. PACKAGE CONTENTS

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Verify that all components are present in the package:

- MX CS-4 L Ceiling Speaker with LED Light (Quantity as per pack)
- Installation Cut-out Template

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of your MX CS-4 L ceiling speaker.

### 4.1 Pre-Installation

- Determine the optimal location for your speaker, ensuring no obstructions (e.g., joists, electrical wires, plumbing) are present in the ceiling cavity.
- Ensure the ceiling material is suitable for mounting and can support the speaker's weight.
- Turn off power to the installation area at the main circuit breaker.

### 4.2 Creating the Ceiling Cut-out

1. Use the provided cut-out template to mark the desired opening on the ceiling.
2. Carefully cut the opening using an appropriate tool (e.g., drywall saw).

### 4.3 Wiring Connections

The speaker requires connections for both audio and the integrated LED light. Refer to the back of the speaker for connection terminals.



**Image 1:** Rear view of the MX CS-4 L ceiling speaker, illustrating the audio input terminals and the AC power connection for the LED light.

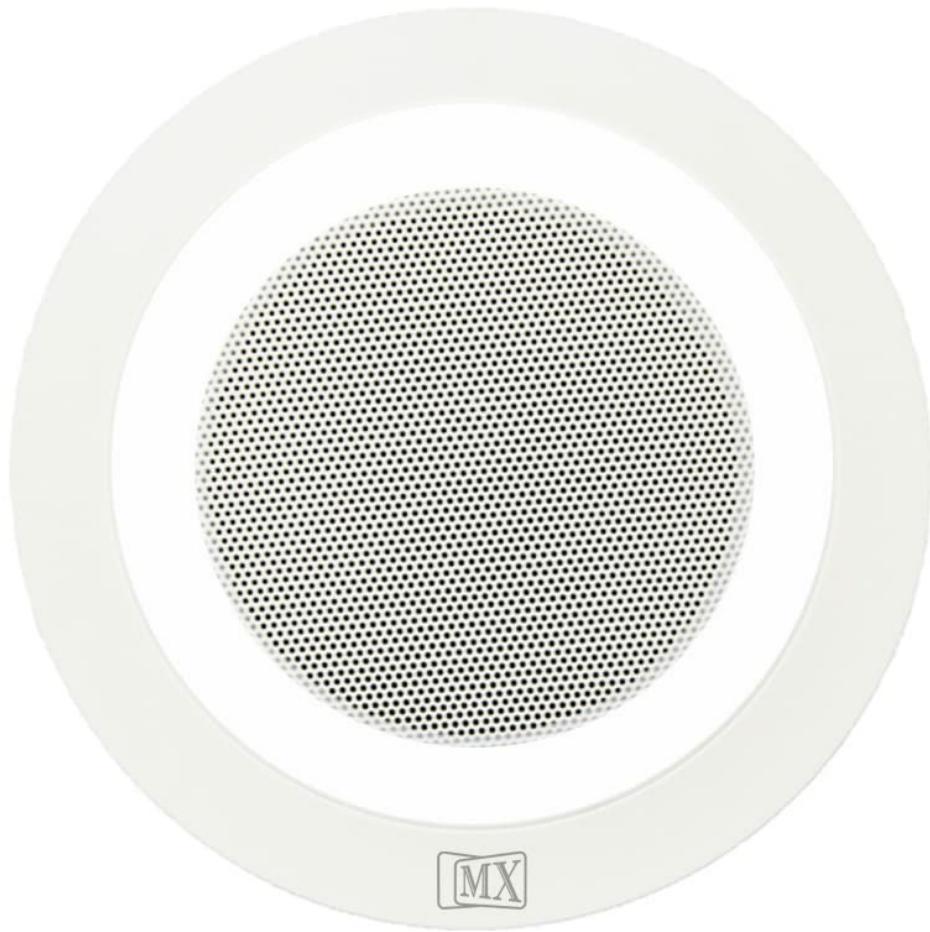
- 1. Audio Connection:** Connect your amplifier, audio receiver, or public address system to the speaker's audio input terminals. Ensure correct polarity (+ to + and - to -) for optimal sound.
- 2. LED Power Connection:** Connect the AC 220V, 50Hz power supply to the dedicated LED power terminals on the speaker.

#### 4.4 Mounting the Speaker



**Image 2:** Front view of the MX CS-4 L ceiling speaker with the grill removed, highlighting the integrated LED light ring and the spring-loaded mounting clips.

1. Carefully insert the speaker into the cut-out opening.
2. The integrated screw-loaded clamps (or spring-loaded clips) will secure the speaker flush against the ceiling. Tighten screws if applicable, or ensure clips are fully engaged.
3. Attach the speaker grill by aligning it with the speaker frame and gently pushing until it snaps into place.



**Image 3:** Front view of the MX CS-4 L ceiling speaker with the protective grill installed, showing its flush-mount design.

## 5. OPERATION

### 5.1 Audio Playback

Once connected to an audio source (amplifier, receiver, mixer), turn on your audio equipment and the speaker. Adjust the volume from your audio source. The speaker is designed to deliver clear and balanced sound for both speech and music.

### 5.2 LED Light Control

The integrated LED light can be controlled via an app or Bluetooth. Refer to the specific instructions for the control app or Bluetooth pairing process to manage the light's on/off state.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your speaker.

- **Cleaning:** Use a soft, dry cloth to wipe the speaker grill and frame. Do not use harsh chemicals, solvents, or abrasive cleaners.
- **Dust Removal:** Periodically remove dust from the speaker surface to prevent accumulation that could affect sound quality or LED light output.
- **Inspection:** Occasionally inspect the speaker for any visible damage or loose connections.

## 7. TROUBLESHOOTING

If you encounter issues with your MX CS-4 L speaker, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound from speaker	<ul style="list-style-type: none"> <li>• Loose audio connections</li> <li>• Audio source off or muted</li> <li>• Incorrect amplifier settings</li> </ul>	<ul style="list-style-type: none"> <li>• Check and secure all audio cables.</li> <li>• Ensure audio source is on and volume is up.</li> <li>• Verify amplifier output settings.</li> </ul>
LED light not working	<ul style="list-style-type: none"> <li>• No power to LED</li> <li>• Loose power connection</li> <li>• App/Bluetooth control issue</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure AC 220V power is supplied to the LED terminals.</li> <li>• Check and secure LED power connections.</li> <li>• Verify app settings or Bluetooth pairing.</li> </ul>
Poor sound quality	<ul style="list-style-type: none"> <li>• Incorrect wiring polarity</li> <li>• Damaged speaker cone</li> <li>• Improper audio source settings</li> </ul>	<ul style="list-style-type: none"> <li>• Verify audio wiring polarity.</li> <li>• Inspect speaker cone for damage.</li> <li>• Adjust equalizer or tone controls on your audio source.</li> </ul>

## 8. SPECIFICATIONS

Detailed technical specifications for the MX CS-4 L Ceiling Speaker with LED Light:

Feature	Specification
Model Name	MX CS-4 L
Mounting Type	Ceiling Mount
Speaker Type	Component
Speaker Size	4 Inches
Material	ABS, Acrylonitrile Butadiene Styrene
Special Feature	LED Light (White LED Bulb 5 Watt)
Impedance	8 Ohms
Sensitivity (db)	90 dB

Feature	Specification
Speaker Maximum Output Power	25 Watts
Frequency Response	50 Hz
Connectivity Technology	Bluetooth
Control Method	App
Compatible Devices	Amplifier, Audio Receiver, Mixer, Public Address System
Power Source	DC (for speaker), AC 220V (for LED)
Item Weight	3700 Grams (approx. 3.7 kg)
Country of Origin	India

## 9. WARRANTY INFORMATION

This MX product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your purchase receipt as proof of purchase for any warranty claims.

For details regarding extended warranty options, please refer to the information provided at the time of purchase or contact customer support.

## 10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact MX customer support:

- **Manufacturer:** MX-MDR TECHNOLOGIES LIMITED
- **Address:** Plot 101 Sector 1 Gauraipada Vasai (East) Palghar - 401208 Mumbai INDIA
- **Email:** [info@mdrelectronics.com](mailto:info@mdrelectronics.com) / [dipesh@mdrelectronics.com](mailto:dipesh@mdrelectronics.com)
- **Contact No.:** 9552529345 / 8805029016
- **Website:** [www.mdrelectronics.com](http://www.mdrelectronics.com)