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› SUNBA Outdoor Microphone for IP Security Cameras (Model MBB12V-6038) User Manual

## SUNBA MBB12V-6038

# SUNBA Outdoor Microphone for IP Security Cameras

Model: MBB12V-6038

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SUNBA Outdoor Microphone (Model MBB12V-6038). This high-sensitivity audio pick-up device is designed for integration with IP security cameras, offering robust performance in various outdoor conditions. Please read this manual thoroughly before installation and use.



Image 1.1: SUNBA Outdoor CCTV Microphone, designed for IP network cameras, with a working temperature range of -40°F to 185°F.

## 2. SAFETY INFORMATION

- Ensure all power connections are secure and meet the specified voltage (DC 12V). Incorrect voltage may damage the device.
- Avoid exposing the microphone to extreme physical impact or corrosive substances.
- Installation should be performed by individuals familiar with low-voltage electrical connections and outdoor equipment mounting.
- Do not attempt to disassemble or modify the microphone, as this will void the warranty and may cause damage.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- SUNBA Outdoor Microphone (MBB12V-6038)
- DC Splitter Cable
- Warning Decal
- Warranty Card

**Note:** 3mm screws for mounting are **not included** and must be purchased separately.

## 4. SPECIFICATIONS

<b>Brand</b>	SUNBA
<b>Model Name</b>	MBB12V-6038
<b>Connectivity Technology</b>	RCA
<b>Connector Type</b>	RCA
<b>Power Source</b>	DC 12V, 0.02A (Corded Electric)
<b>Monitor Range</b>	Up to 540 Square Feet
<b>Sensitivity</b>	-4.0dB~+3.0dB (0dB=1V/Pa, 1KHz)
<b>Automatic Gain Control (AGC)</b>	40dB with Maxim 9814 Chip
<b>Operating Frequency</b>	20 ~ 20,000 Hz
<b>Operating Temperature</b>	-40°C to +85°C (-40°F to 185°F)
<b>Enclosure Material</b>	Aluminum
<b>Item Weight</b>	0.14 Kilograms
<b>Compatible Devices</b>	IP Cameras with RCA Audio Ports

## 5. SETUP INSTRUCTIONS

Follow these steps to properly install your SUNBA Outdoor Microphone:

### 5.1 Mounting the Microphone

1. Choose a suitable outdoor location for the microphone, ensuring it is within the desired audio monitoring range and protected from direct heavy rainfall if possible.
2. Secure the microphone to a stable surface using 3mm screws (not included). The aluminum enclosure is designed for outdoor conditions.



Image 5.1: Front view of the SUNBA outdoor microphone, showing the mounting points for screws.

## 5.2 Connecting to an IP Camera

The microphone connects to your IP camera using RCA audio and DC 12V power. The included DC splitter cable facilitates power delivery.

### Scenario 1: Camera with Female RCA Audio Input

- Connect the microphone's audio output (male RCA) to the camera's female RCA audio input.
- Connect the DC 12V power adapter to the DC splitter cable.
- Connect one end of the DC splitter cable to the microphone's DC input and the other end to the camera's DC input (if applicable, or power the camera separately).

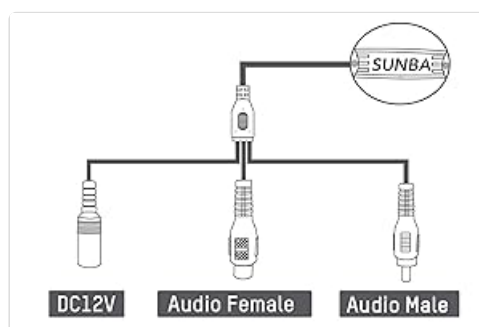


Image 5.2: Connection diagram for the microphone, illustrating connections for DC 12V power, audio female, and audio male ports.

## Scenario 2: Camera with Male RCA Audio Input (Requires RCA Female-to-Female Adapter)

- If your camera has a male RCA audio input, you will need an RCA female-to-female adapter (not included) to connect the microphone's male RCA output.
- Follow the power connection steps as described in Scenario 1.

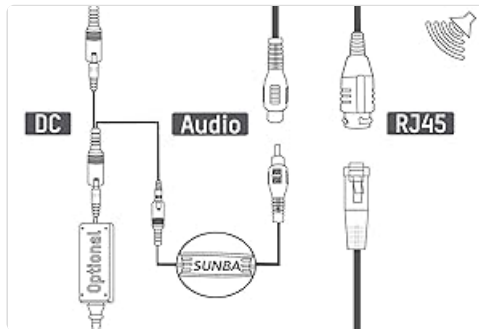


Image 5.3: Connection diagram showing the microphone integrated with DC power, audio, and an RJ45 connection, including an optional component for varied setups.

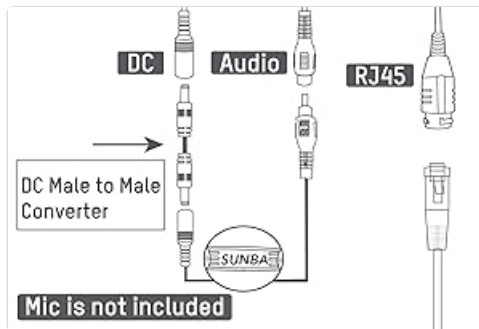


Image 5.4: Connection diagram detailing the use of a DC male-to-male converter for microphone power, noting that the microphone itself is not depicted in this specific segment.

## 5.3 Initial Power-Up

Once all connections are made, apply power to the microphone and the IP camera. Refer to your IP camera's manual for instructions on enabling and configuring audio input.

## 6. OPERATING INSTRUCTIONS

The SUNBA Outdoor Microphone is designed for continuous operation once properly installed and powered.

- **Audio Monitoring:** The microphone captures audio within a range of up to 540 square feet.
- **Automatic Gain Control (AGC):** The integrated Maxim 9814 chip provides 40dB of automatic gain control, adjusting the microphone's sensitivity to optimize audio levels and reduce distortion from loud sounds.
- **Sensitivity:** The microphone offers high sensitivity, picking up subtle sounds.
- **Warning Decal:** Place the included warning decal in a visible location to inform individuals that audio surveillance is in progress.

## 7. MAINTENANCE

- **Cleaning:** Periodically wipe the microphone's exterior with a soft, damp cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Environmental Conditions:** The microphone is rated for extreme temperatures (-40°C to +85°C). Ensure it is not submerged in water or exposed to conditions beyond its specified operating range.

- **Cable Inspection:** Regularly inspect all cables for signs of wear, damage, or corrosion, especially in outdoor environments. Replace damaged cables immediately.

## 8. TROUBLESHOOTING

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### 8.1 No Audio Output

- **Check Power:** Ensure the microphone is receiving stable DC 12V power. Verify the power adapter and DC splitter cable connections.
- **Check Audio Connections:** Confirm that the RCA audio cable is securely connected between the microphone and the IP camera's audio input.
- **Camera Settings:** Access your IP camera's interface and verify that the audio input is enabled and configured correctly. Ensure the volume or gain settings are not set to zero.
- **Cable Integrity:** Inspect the audio and power cables for any visible damage.

### 8.2 Buzzing or Static Noise

- **Grounding Issues:** Ensure proper grounding for both the microphone and the camera system. Ground loops can cause buzzing.
- **Power Supply Interference:** Try a different DC 12V power adapter to rule out power supply noise.
- **Cable Quality/Shielding:** Use high-quality, shielded RCA cables to minimize interference.
- **Proximity to Electrical Interference:** Relocate the microphone away from strong electrical fields, power lines, or other devices that may cause interference.
- **Physical Contact:** Ensure the microphone is securely mounted and not vibrating against any solid surfaces, which can amplify noise.

### 8.3 Distorted or Over-Modulated Audio

- **Camera Gain Settings:** While the microphone has AGC, some IP cameras also have adjustable audio gain. Reduce the audio input gain within your camera's settings if the sound is consistently too loud or distorted.
- **Microphone Placement:** If the microphone is placed too close to very loud sound sources, even AGC may not prevent all distortion. Consider repositioning.

## 9. WARRANTY AND SUPPORT

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Your SUNBA Outdoor Microphone comes with a warranty. Please refer to the included warranty card for specific terms and conditions, including warranty duration and coverage details.

For technical support, troubleshooting assistance, or warranty claims, please contact SUNBA customer service through the retailer where the product was purchased or visit the official SUNBA website for contact information.