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BroadLink RM4 Pro

BroadLink RM4 Pro Universal IR/RF Remote Control User Manual

Model: RM4 Pro

1. Introduction

The BroadLink RM4 Pro is a universal remote control that integrates infrared (IR) and radio frequency (RF) devices into a single smart home system. It allows you to control various appliances such as TVs, air conditioners, set-top boxes, fans, DVD players, and RF-controlled devices like curtain motors and projectors, all from your smartphone or via voice commands.

This manual provides detailed instructions for setting up, operating, and maintaining your BroadLink RM4 Pro to ensure optimal performance and seamless integration with your smart home ecosystem.



Image 1.1: The BroadLink RM4 Pro universal remote control unit.

2. Package Contents

Please check the package contents upon unboxing. If any items are missing or damaged, contact customer support.

- BroadLink RM4 Pro Universal Remote Control x 1
- USB Power Cable x 1 (length: 1m)
- Mounting Board x 1
- User Manual (this document)

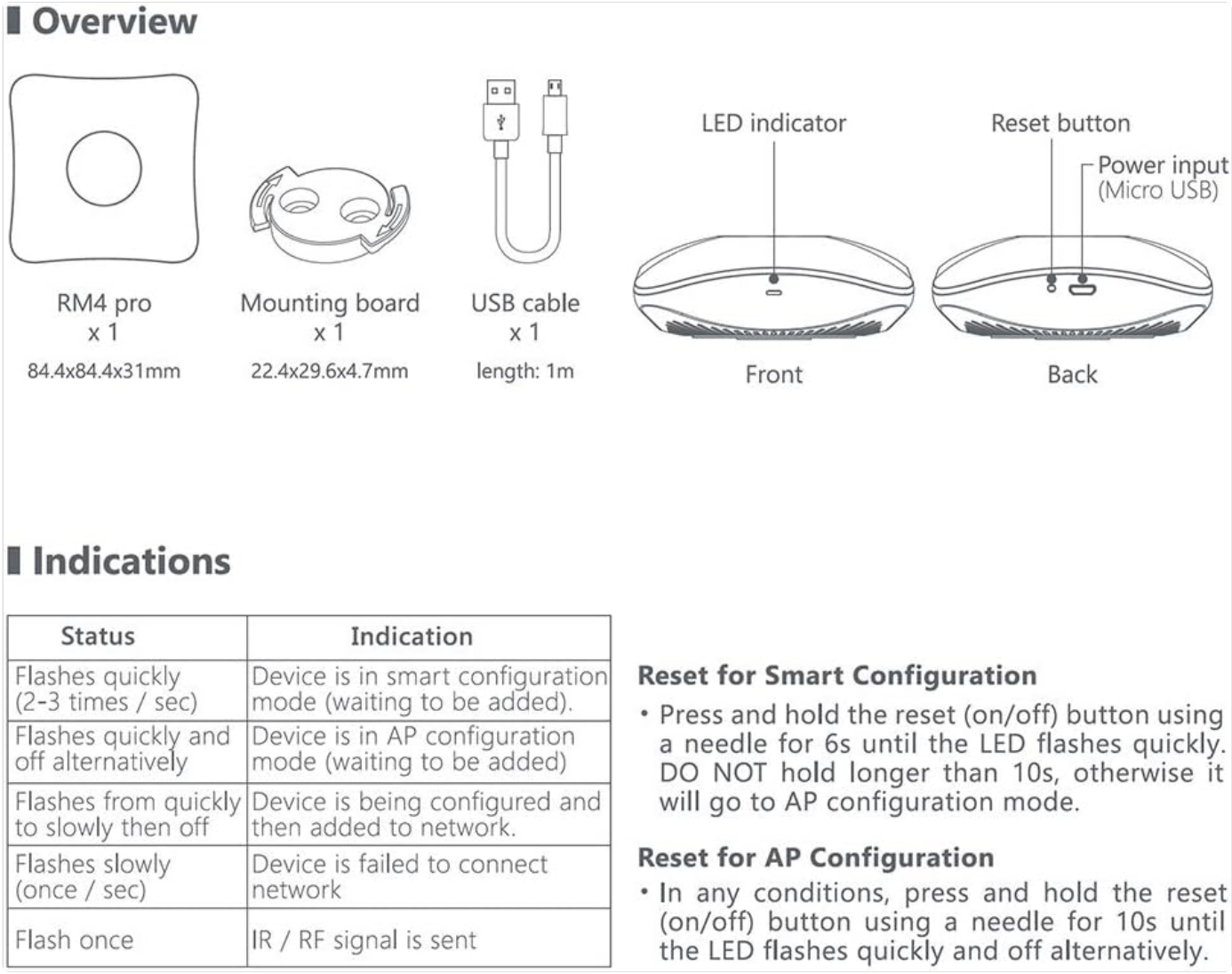


Image 2.1: Diagram showing the RM4 Pro device, mounting board, and USB cable.

3. Key Features

- **Universal Compatibility:** Controls most IR-controlled devices (TV, AC, STB, Fan, DVD) and 433 MHz RF devices (curtain motors, projectors, switches).
- **BroadLink App Control:** Manage devices, create scenes, and set schedules from the BroadLink app (available on Apple App Store and Google Play).
- **Voice Control:** Compatible with Amazon Alexa for TV, STB, AC, and fan control, and Google Home for AC control.
- **IFTTT Integration:** Create custom automations and triggers with IFTTT.
- **External Sensor Support:** Connects to an external USB temperature and humidity sensor cable (sold separately) to display room conditions in the app.
- **FastCon Technology:** Simplifies device pairing for compatible FastCon devices.
- **Wi-Fi Connectivity:** Supports 2.4 GHz Wi-Fi networks only.



Image 3.1: The RM4 Pro's ability to control IR and RF devices from a single unit.

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4. Setup Guide

4.1 Device Overview

Familiarize yourself with the device components:

- **LED Indicator:** Shows device status.
- **Reset Button:** Used for resetting the device and entering configuration modes.
- **Micro USB Port:** For power input.

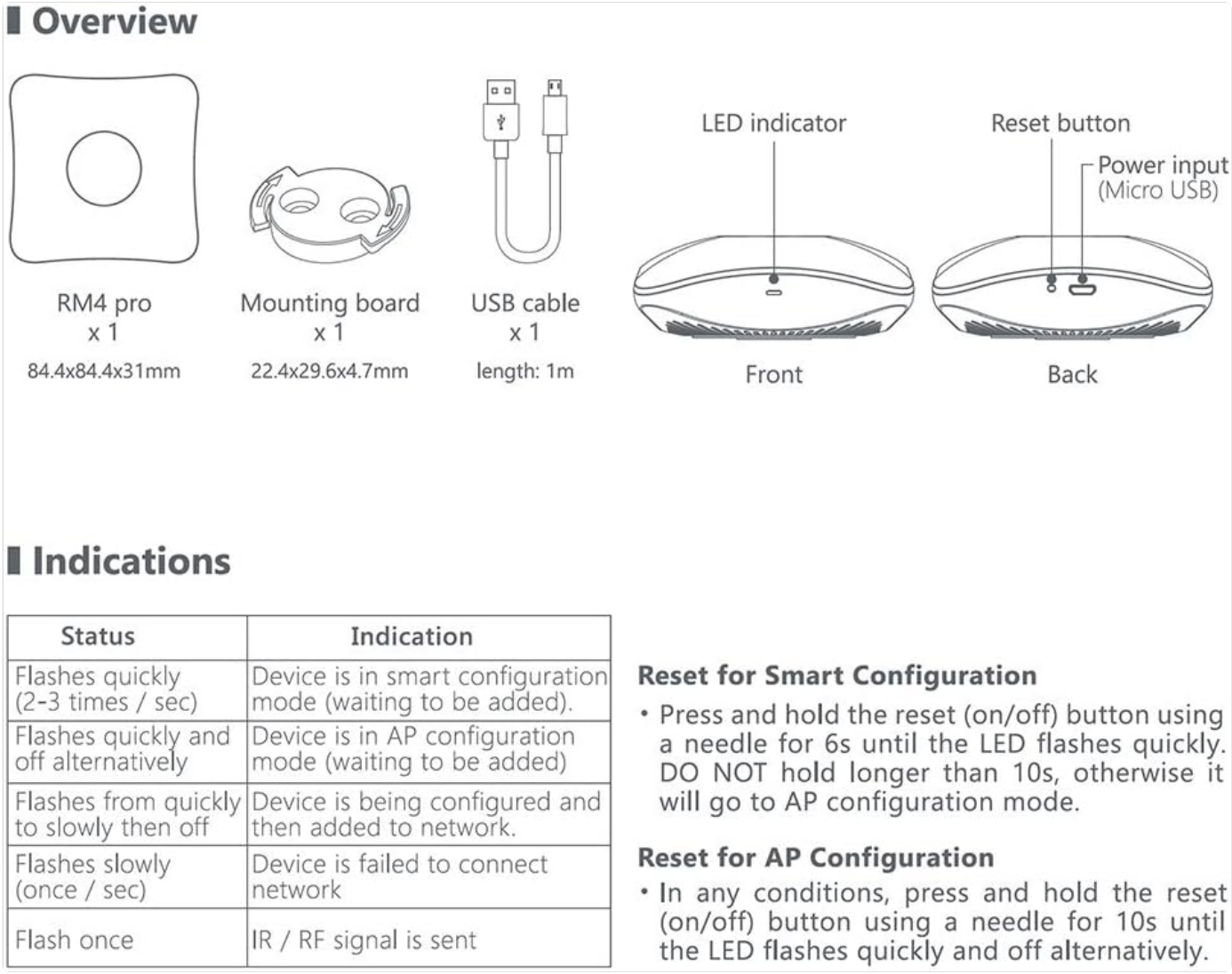


Image 4.1: Front and back view of the RM4 Pro, highlighting the LED indicator, reset button, and power input.

4.2 LED Indicator Status

Status	Indication
Flashes quickly (2-3 times / sec)	Device is in Smart Configuration mode (waiting to be added).
Flashes quickly and off alternatively	Device is in AP Configuration mode (waiting to be added).
Flashes from quickly to slowly then off	Device is being configured and then added to network.
Flashes slowly (once / sec)	Device failed to connect network.
Flash once	IR / RF signal is sent.

4.3 Power On and App Installation

1. **Power On:** Connect the RM4 Pro to a 5V 1A USB power adapter (not included) using the provided USB cable. The LED indicator will start flashing.
2. **Download App:** Search for "BroadLink" in the Apple App Store or Google Play Store and download the official BroadLink app.
3. **Register/Login:** Open the app and register a new account or log in with an existing one.

4.4 Connect to Wi-Fi Network

Ensure your smartphone is connected to a 2.4 GHz Wi-Fi network. The RM4 Pro does not support 5 GHz Wi-Fi.

1. In the BroadLink app, tap the "+" icon on the top right corner to add a device.
2. Select "Add Device" and follow the on-screen instructions. The app will guide you through connecting the RM4 Pro to your home Wi-Fi.
3. If the device is not automatically discovered, ensure the LED is flashing quickly (Smart Configuration mode). If not, reset the device (see 4.5 Resetting the Device).
4. Enter your Wi-Fi network name (SSID) and password. The password should be a maximum of 32 characters.
5. Once connected, the LED indicator will stop flashing and remain solid blue.



Image 4.2: Screenshot of the BroadLink app showing Wi-Fi network selection and password input.

4.5 Resetting the Device

- **For Smart Configuration:** Press and hold the reset button using a needle for 6 seconds until the LED flashes quickly. Do NOT hold longer than 10 seconds, otherwise it will go to AP configuration mode.

- **For AP Configuration:** In any conditions, press and hold the reset button using a needle for 10 seconds until the LED flashes quickly and off alternatively.

4.6 Adding IR/RF Devices

After connecting the RM4 Pro to Wi-Fi, you can start adding your appliances.

1. In the BroadLink app, select the RM4 Pro device.
2. Tap "Add Appliance" or the "+" icon within the device interface.
3. Choose the type of appliance you want to add (e.g., TV, Air Conditioner, RF Curtain).
4. **For IR Devices:** The app will guide you through a learning process. Point your original remote control at the RM4 Pro and press the required buttons as prompted by the app. The RM4 Pro will learn the IR signals.
5. **For RF Devices:** The app will prompt you to press a button on your RF remote. The RM4 Pro will attempt to capture the RF signal. Note that the RM4 Pro only supports fixed code RF (433 MHz) and does NOT support rolling code RF.
6. Test the learned commands to ensure they work correctly.

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5. Operating Instructions

5.1 App Control

Once devices are added, you can control them directly from the BroadLink app:

- Tap on the appliance icon to access its control interface.
- Use the virtual remote buttons to operate your devices.
- Create custom scenes to control multiple devices with a single tap (e.g., "Movie Night" scene to turn on TV, lower lights, and close curtains).
- Set schedules and timers for automated control (e.g., turn on AC 15 minutes before you arrive home).



Image 5.1: Controlling an air conditioner remotely using the BroadLink app on a smartphone.

5.2 Voice Control (Alexa & Google Home)

To enable voice control, you need to link your BroadLink account with Amazon Alexa or Google Home.

1. Open the Amazon Alexa app or Google Home app.
2. Navigate to "Skills & Games" (Alexa) or "Works with Google" (Google Home).
3. Search for the "BroadLink" skill/service and enable it.
4. Link your BroadLink account when prompted.
5. Discover devices. Alexa/Google Home will find the devices you've added to the BroadLink app.
6. You can now use voice commands like:
    - "Alexa, turn on the TV."
    - "Alexa, set AC to 24 degrees."
    - "Hey Google, turn off the air conditioner."



Image 5.2: Voice control integration with Amazon Alexa and Google Assistant for IR devices.

5.3 IFTTT Integration

IFTTT (If This Then That) allows you to create powerful automations between your BroadLink devices and other services or devices.

1. Download the IFTTT app or visit the IFTTT website.
2. Search for the "BroadLink" service and connect it to your IFTTT account.
3. Create applets (automations) using BroadLink as an "action" or "trigger". For example:
    - "If I arrive home (location trigger), then turn on the TV to news channel (BroadLink action)."
    - "If the temperature drops below 20°C (smart thermostat trigger), then turn on the heater (BroadLink action)."

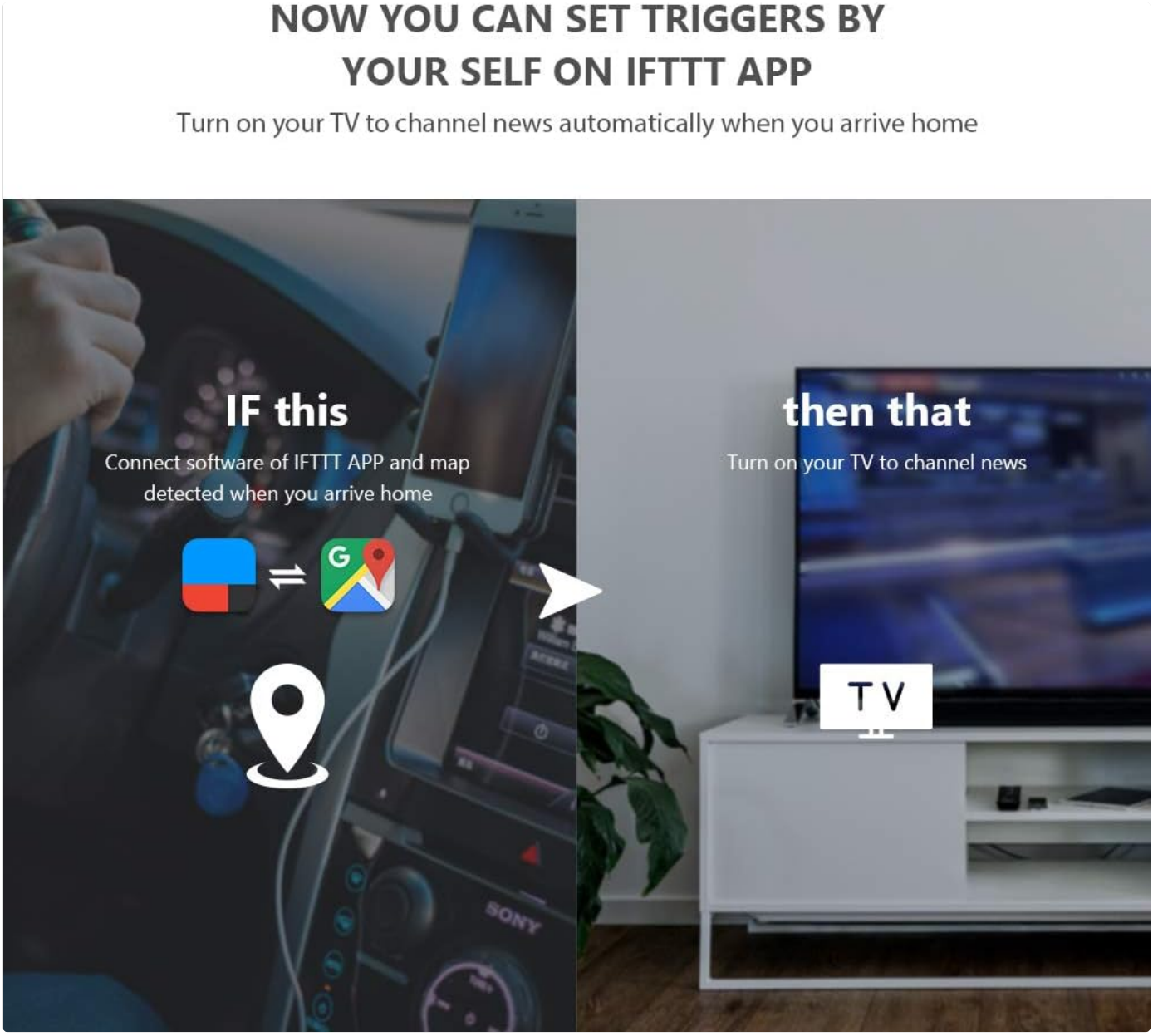


Image 5.3: Example of setting up a trigger in the IFTTT app to turn on the TV upon arriving home.

5.4 External Sensor Cable (Optional)

The RM4 Pro is compatible with an external USB sensor cable (sold separately) that measures temperature and humidity.

1. Plug the sensor cable into the Micro USB port of the RM4 Pro.
2. The BroadLink app will automatically detect the sensor.
3. You can view the current temperature and humidity in the app and use these readings to create automations (e.g., "If temperature exceeds 26°C, turn on AC").

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6. Compatibility Notes

- **IR Devices:** Supports most devices controlled by 38 kHz infrared signals.
- **RF Devices:** Supports certain brands using 433 MHz radio frequency. **Does NOT support RF Rolling Code.** Generally, if your RF remote needs to be paired for the first use, it is likely a Rolling Code remote.
- **Wi-Fi Network:** Only supports 2.4 GHz Wi-Fi networks. 5 GHz Wi-Fi is not supported.
- **Unsupported Devices:** Devices not controlled by IR or RF remotes are not supported. This includes Bluetooth

devices, 868 MHz RF, FSK modulation, and encrypted protocols.

- **Verification:** Always verify the compatibility of your devices before purchase. Check your remote's label or user manual for frequency details. If unsure, contact BroadLink support with your device's brand and model.



Image 6.1: Visual guide to device compatibility, highlighting supported IR/RF frequencies and unsupported types like rolling code.

7. Maintenance and Care

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Placement:** Place the RM4 Pro in a central location within the room, with a clear line of sight to IR-controlled devices for optimal performance. Avoid placing it behind obstacles.
- **Environment:** Keep the device away from direct sunlight, high temperatures, and high humidity.
- **Power Supply:** Always use a stable 5V 1A USB power adapter.

8. Troubleshooting

8.1 Device Cannot Connect to Wi-Fi

- Ensure your Wi-Fi network is 2.4 GHz. The RM4 Pro does not support 5 GHz.
- Check if your Wi-Fi password is correct and does not exceed 32 characters.
- Make sure the RM4 Pro is within range of your Wi-Fi router.
- Try resetting the RM4 Pro to Smart Configuration mode (LED flashes quickly) and try connecting again.
- Restart your Wi-Fi router.

8.2 IR Device Not Responding

- Ensure the RM4 Pro has a clear line of sight to the IR device. Obstacles can block IR signals.
- Verify that the IR signals were learned correctly. Try re-learning the commands in the app.
- Check if the original remote control is working properly.

8.3 RF Device Not Responding

- Confirm that your RF device uses a fixed code 433 MHz frequency. The RM4 Pro does not support rolling code RF.
- Ensure the RF signal was learned correctly. Try re-learning the commands.
- RF signals can be affected by distance and walls. Try moving the RM4 Pro closer to the RF device.

8.4 Voice Control Not Working

- Ensure your BroadLink account is correctly linked in the Alexa or Google Home app.
- Make sure devices are discovered in the Alexa/Google Home app. Try re-discovering devices.
- Check the device names in the BroadLink app and ensure they are easy for the voice assistant to understand.
- Verify that your voice assistant device (Echo, Google Home) is online and responding.

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9. Specifications

Feature	Detail
Model Name	RM4 Pro
Connectivity Technology	Radio Frequency (RF) & Infrared (IR)
Wi-Fi Standard	2.4 GHz (802.11 b/g/n)
IR Frequency	38 kHz
RF Frequency	433 MHz (Fixed Code only)
Max Range (IR)	8 Meters
Max Range (RF)	50m (line of sight), 10m (with one wall)
Power Input	DC 5V / 1A (Micro USB)

Feature	Detail
Compatible Devices	Air Conditioner, TV, STB, DVD/Blu-ray Player, Fan, Curtain Motors, Projectors, Switches
Voice Control Compatibility	Amazon Alexa, Google Home
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	≤ 85% RH
Color	Black
Dimensions	84.4 x 84.4 x 31 mm (approximate)
UPC	727523692948, 716253823647
ASIN	B07CNP9MGS

10. Warranty and Support

10.1 Warranty Information

The BroadLink RM4 Pro comes with a **2-year limited warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.
Please retain your proof of purchase for warranty claims.

10.2 Technical Support

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

- Visit the official BroadLink website for FAQs and support resources.
- Refer to the BroadLink app for in-app support options.
- Contact details for your region may be available on the BroadLink website or product packaging.

BroadLink offers 24/7 technical support.

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