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› AIMENGTE Zigbee USB 5V COB Smart LED Strip Lights User Manual

AIMENGTE COB 3M

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Model: COB 3M

1. INTRODUCTION

Thank you for choosing the AIMENGTE Zigbee USB 5V COB Smart LED Strip Lights. This product offers versatile and intelligent lighting solutions for various indoor applications, compatible with popular smart home ecosystems like Amazon Alexa and Google Home. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your LED strip lights.

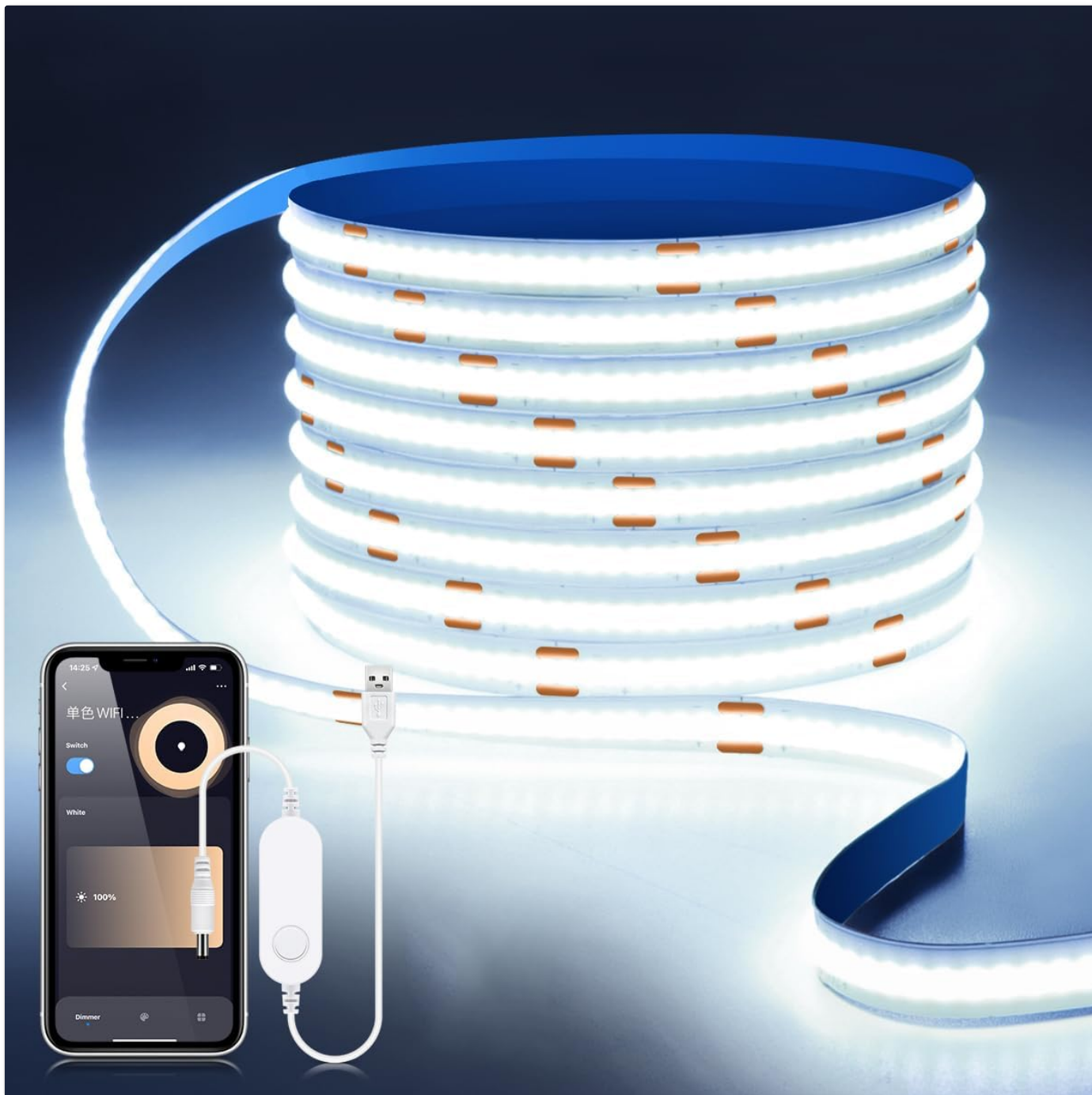


Figure 1: AIMENGTE Zigbee USB 5V COB Smart LED Strip Lights

The image displays the coiled COB LED strip light with its USB controller and a smartphone screen showing the control app interface. The strip emits a bright white light, highlighting its compact design and smart control capabilities.

2. WHAT'S IN THE BOX

Upon unboxing, please verify that all components are present and undamaged:

- USB LED Zigbee controller
- COB LED Strip Light

3. SPECIFICATIONS

Feature	Detail
Brand	AIMENGTE

Feature	Detail
Model Number	COB 3M
Color	White (6500 Kelvin)
Indoor/Outdoor Usage	Indoor
Special Features	Dimmable, Automatic On-Off, Timer, Adjustable
Light Source Type	LED
Power Source	Corded Electric (USB 5V DC)
Material	Silicone
Controller Type	App Control
Connectivity Protocol	Zigbee
Number of Light Sources	320
Wattage	5 watts
Item Weight	3.04 ounces

4. SETUP AND INSTALLATION

4.1 Zigbee Hub Requirement

A Zigbee hub (e.g., Tuya Zigbee Gateway) is required for the smart functions of these LED strip lights. Without a compatible Zigbee hub, you will not be able to connect the lights to your smart home system or use app/voice control features.



Figure 2: Zigbee and Tuya Compatibility Overview

This image illustrates the Zigbee and Tuya compatibility of the LED strip, showing the coiled strip, its USB controller, and smart speakers (Google Home, Alexa Echo Dot) indicating voice control integration.

4.2 Power Connection

The LED strip lights are powered via a DC 5V USB port. This allows for flexible power options, including:

- Computer USB ports
- TV USB ports
- Standard USB wall chargers (charging heads)
- Mobile power banks

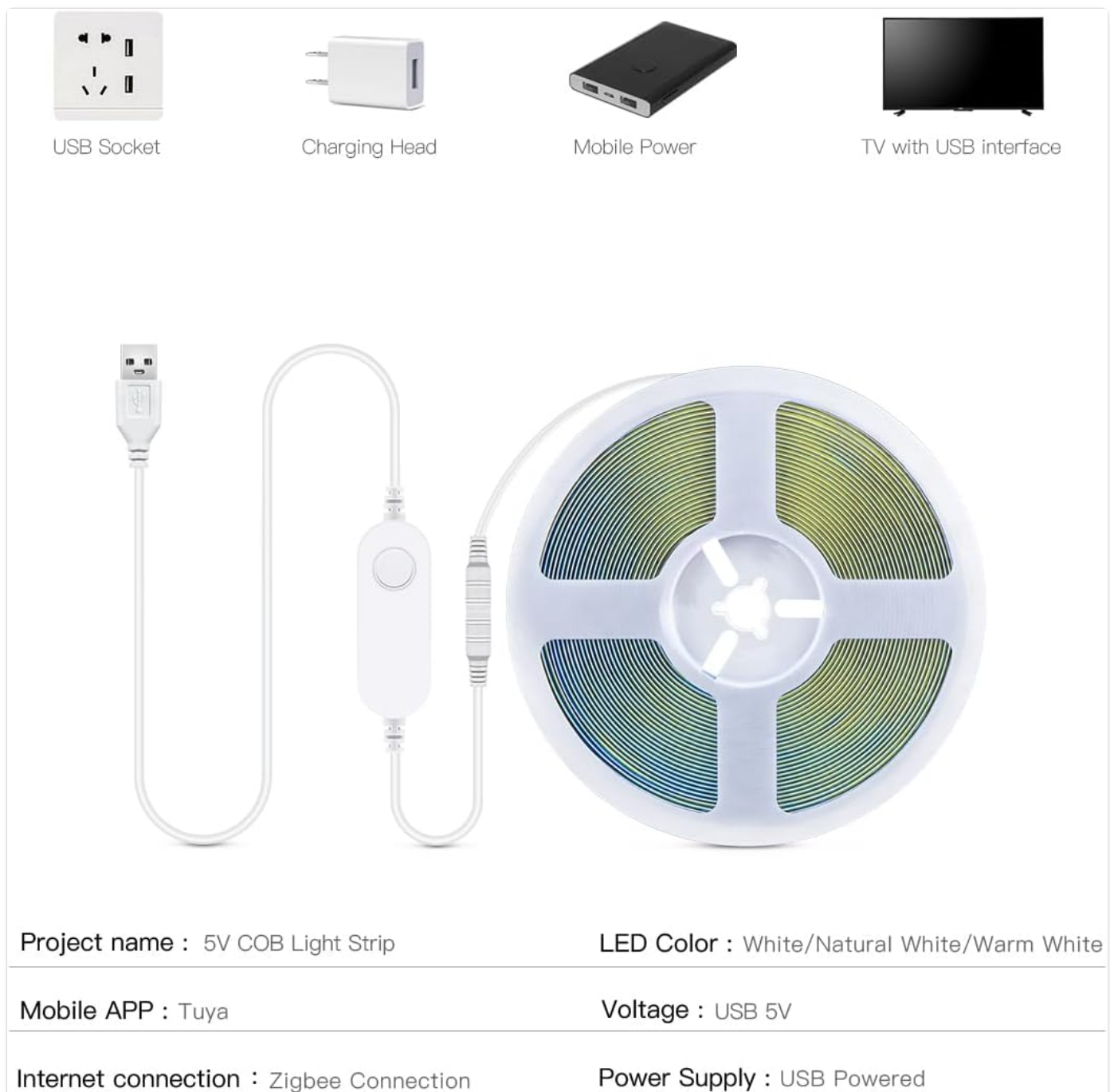


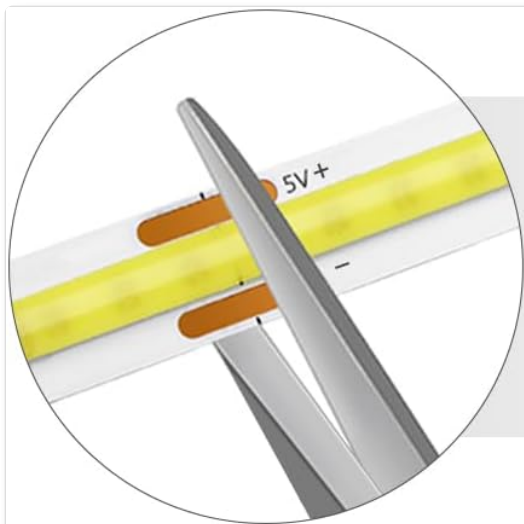
Figure 3: Compatible USB Power Sources

The image displays various compatible USB power sources for the LED strip, including a USB socket, a charging head, a mobile power bank, and a TV with a USB interface, alongside the coiled LED strip and its USB controller.

4.3 Physical Installation

The COB LED strip lights feature an upgraded high-adhesive double-sided tape for easy, tool-free mounting. Follow these steps for installation:

1. **Clean the Surface:** Ensure the surface where you plan to install the strip is clean, dry, and free of dust or grease.
2. **Measure and Cut (Optional):** If necessary, the LED strip is cuttable. Cut only along the designated marks to ensure the remaining strip functions correctly.
3. **Peel and Stick:** Carefully peel off the protective backing from the double-sided tape.
4. **Apply:** Press the LED strip firmly onto the desired surface (e.g., along your TV, cabinet, bed frame).
5. **Bend and Shape:** The strip is bendable, allowing you to shape it to fit various contours and corners.



Cuttable

the rest LED strip can work normally.

Bendable

It can be bent and folded into any shape you want



Double- sided Tape

strong double – sided tape for easy installation.

Figure 4: Installation Features

This image highlights key installation features: the strip's cuttability at marked points, its bendable nature for flexible application, and the strong double-sided tape for easy mounting.

5. OPERATING INSTRUCTIONS

5.1 Tuya App Control

After connecting the light strip to your Tuya Zigbee Gateway and pairing it with the Tuya App, you can intelligently control the lights with various features:

- **Timer Settings:** Set daily on/off schedules for automated lighting.
- **Brightness Adjustment:** Adjust the light intensity to suit environmental needs or personal preference.
- **Remote Control:** Control your lights from anywhere via the app.

Timing Settings

In the APP, you can set the timer on/off to cycle every day.

  20:00 ON

  23:00 OFF



Figure 5: App Timing Settings

This image demonstrates the timing settings feature within the Tuya App, showing how users can schedule the LED strip to turn on and off at specific times, such as 8:00 PM ON and 11:00 PM OFF, with the light strip illuminating a bedroom setting.

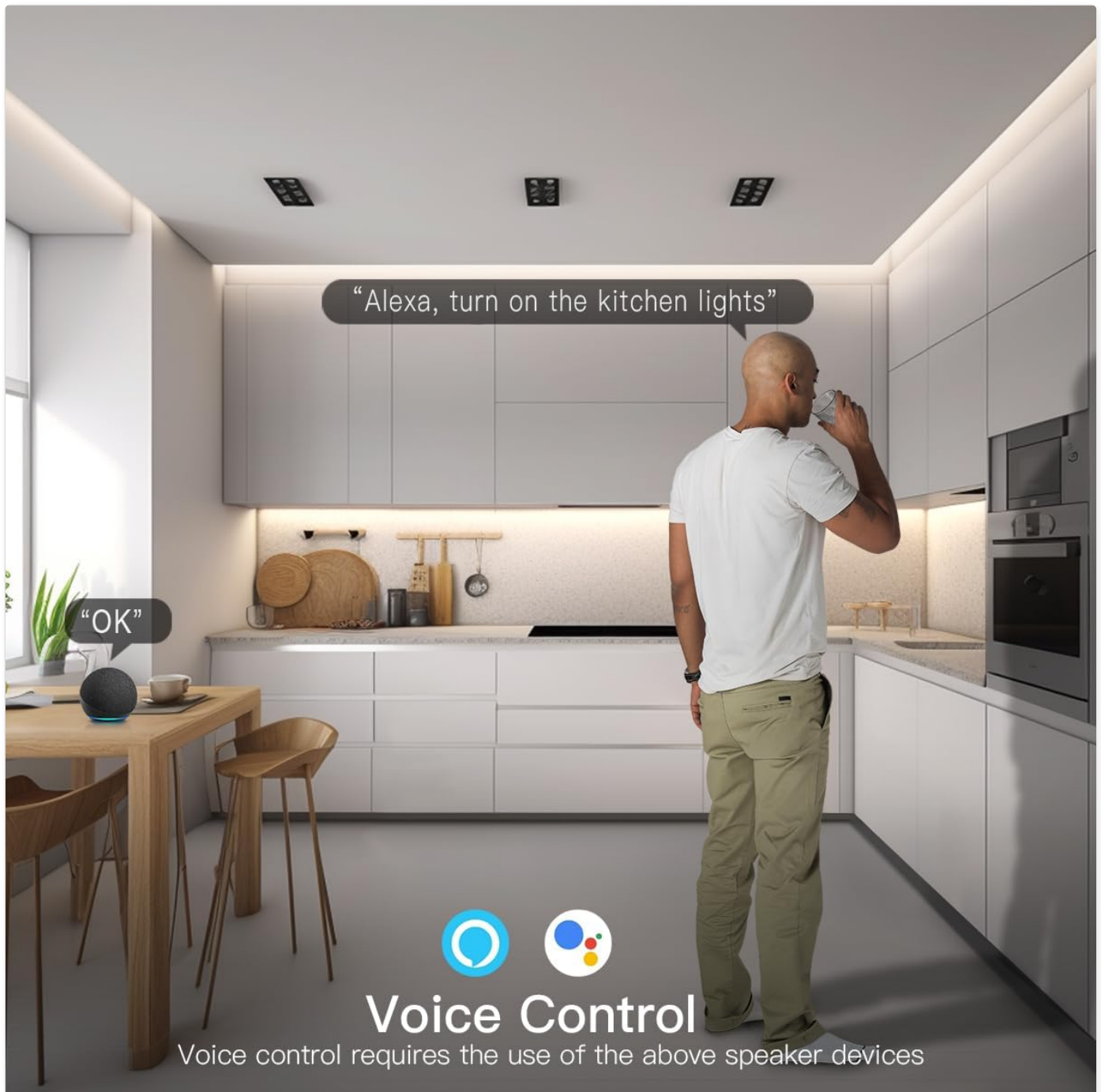


Figure 6: Brightness Adjustment Options

The image displays three coiled LED strips, each demonstrating a different level of brightness, from dim to bright, illustrating the dimmable feature of the product.

5.2 Voice Control

Once integrated with your Zigbee hub and Tuya App, the LED strip lights can be controlled via voice commands through Amazon Alexa or Google Assistant. Simply give a voice command to turn on/off or dim/brighten your COB rope light.

- **Example Commands (Alexa):** "Alexa, turn on the kitchen lights," "Alexa, dim the bedroom lights to 50%."
- **Example Commands (Google Assistant):** "Hey Google, turn off the cabinet lights," "Hey Google, brighten the living room strip."

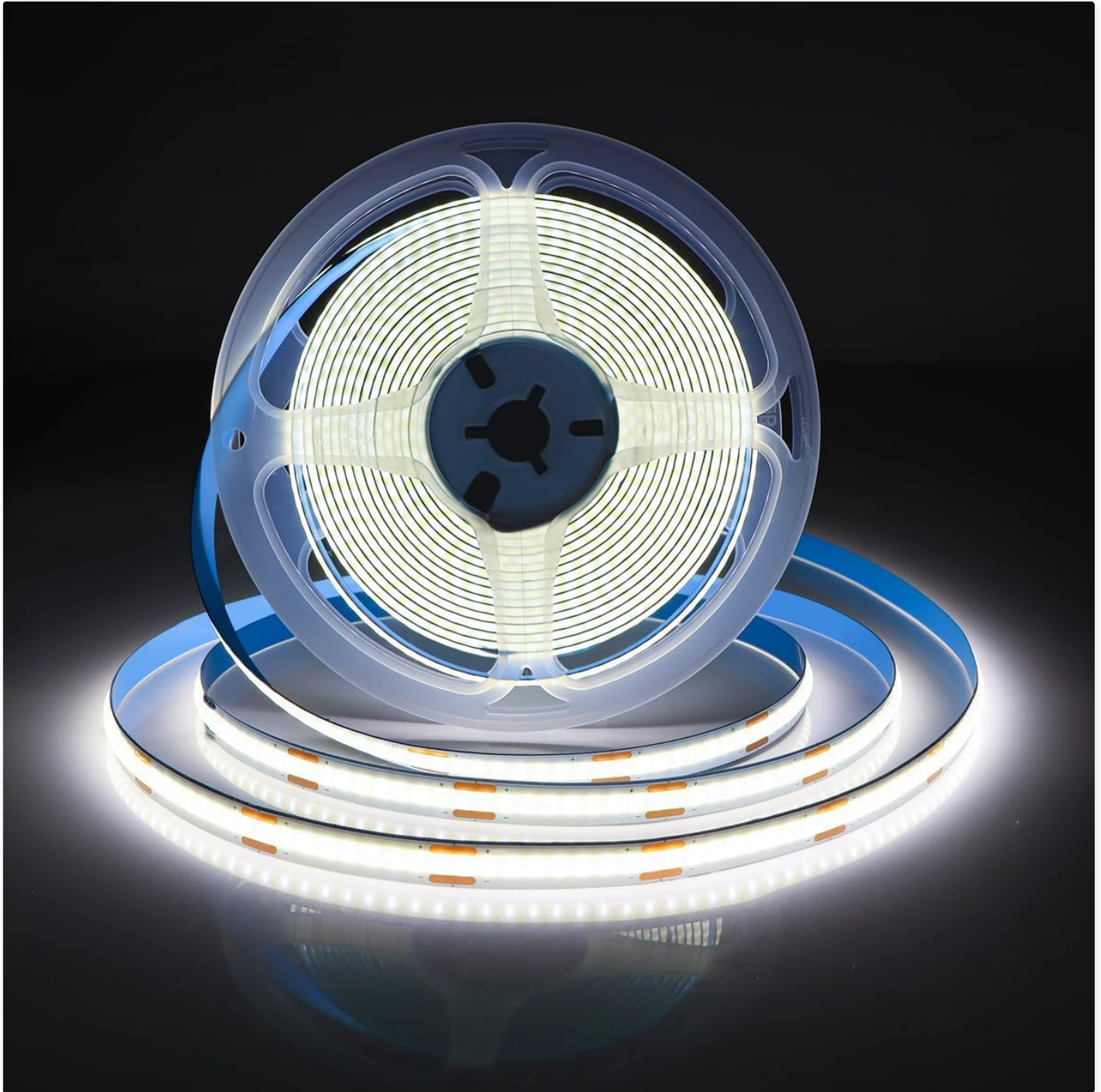


Figure 7: Voice Control Integration

This image depicts a person in a modern kitchen setting, interacting with smart speakers (Google Home and Alexa Echo Dot) to control the LED strip lights installed under the cabinets, demonstrating the voice control capability.

5.3 Manual Controller Functions

The inline controller provides basic manual control over the LED strip:

1. **Turn On:** Click the button once when the lights are off.
2. **Turn Off:** Double-click the button when the light is on.
3. **Change Color/Temperature:** Click the button once when the light is on to cycle through available light colors or temperatures (for models with this feature).
4. **Enter Device Connection Mode:** Long press the button to enter distribution network status (light shows breathing mode) for pairing.

Controller button functions

- ❶ Turn on: click the button when the lights are off
Turn off: double-click the button when the light is on
- ❷ Click the button when the light is on
Change the color/temperature of the lights.
- ❸ Long press to enter device connection
Distribution network status (light shows breathing mode)



Figure 8: Manual Controller Functions

The image shows a hand pressing the button on the inline controller of the LED strip, with text overlays explaining the functions: single click for turn on/change color, double click for turn off, and long press for device connection mode.

6. MAINTENANCE

6.1 General Care

To ensure the longevity and optimal performance of your LED strip lights, follow these general care guidelines:

- Avoid exposing the strip to excessive heat or direct sunlight for prolonged periods.
- Do not submerge the strip in water or expose it to high humidity, as it is not water resistant.
- Handle the strip gently to avoid damaging the LED components or the adhesive backing.

6.2 Cleaning

If cleaning is necessary, ensure the LED strip is unplugged from its power source. Gently wipe the surface with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the strip's material.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, faulty USB port.	Ensure the USB controller is securely plugged into a working 5V USB power source. Try a different USB port or power adapter.
Cannot connect to Tuya App / Lights not recognized.	No Zigbee hub, incorrect pairing mode, poor signal, app issues.	<ul style="list-style-type: none">• Verify you have a compatible Tuya Zigbee Gateway and it is online.• Long press the controller button to enter device connection mode (breathing light).• Ensure the strip is within range of the Zigbee hub.• Restart the Tuya App and try pairing again.• Check for app updates.
Voice control not working.	Not linked to Alexa/Google Home, incorrect commands, network issues.	<ul style="list-style-type: none">• Ensure your Tuya account is linked to your Alexa/Google Home app.• Verify the device name in the Tuya App matches what you are saying.• Check your Wi-Fi and internet connection.
Lights flicker or dim unexpectedly.	Insufficient power, loose connection, faulty strip section.	Ensure the power source provides stable 5V. Check all connections. If only a section flickers, it might indicate damage to that part of the strip.

8. WARRANTY AND SUPPORT

AIMENGTE products are manufactured with high-quality standards. For specific warranty information and terms, please refer to the product packaging or contact the seller directly through your purchase platform. If you encounter any issues not covered in this manual or require further assistance, please reach out to AIMENGTE customer support.

Customer Support: Please visit the AIMENGTE store on Amazon or contact the seller via your order details for assistance.

Online Resources: For additional tips and FAQs, you may refer to the brand's A+ content section on the product page or the AIMENGTE brand store on Amazon.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for

conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question