

weisuan-Tuodi c7235e09-f9bf-486d-89b2-3d0c43e4b10b

weisuan-Tuodi DC 12V Premium COB LED Strip User Manual

Model: c7235e09-f9bf-486d-89b2-3d0c43e4b10b

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your weisuan-Tuodi DC 12V Premium COB LED Strip. This COB (Chip-on-Board) LED strip features high-density chips, offering enhanced brightness and a uniform, spot-free light output compared to traditional LED strips. It is designed for various indoor and outdoor lighting applications.

Key features include:

- High luminous efficiency with a 180-degree wide viewing angle.
- Smooth and soft light output, minimizing chromatic aberration and light decay.
- High Color Rendering Index (CRI) of 90Ra for accurate color representation.
- Low heat generation and efficient heat dissipation.

The LED strip is suitable for diverse decorative lighting purposes, including bathrooms, living rooms, bedrooms, makeup mirrors, cabinet lighting, step lighting, and corridor lighting, as well as applications in vehicles, boats, hotels, and bars.

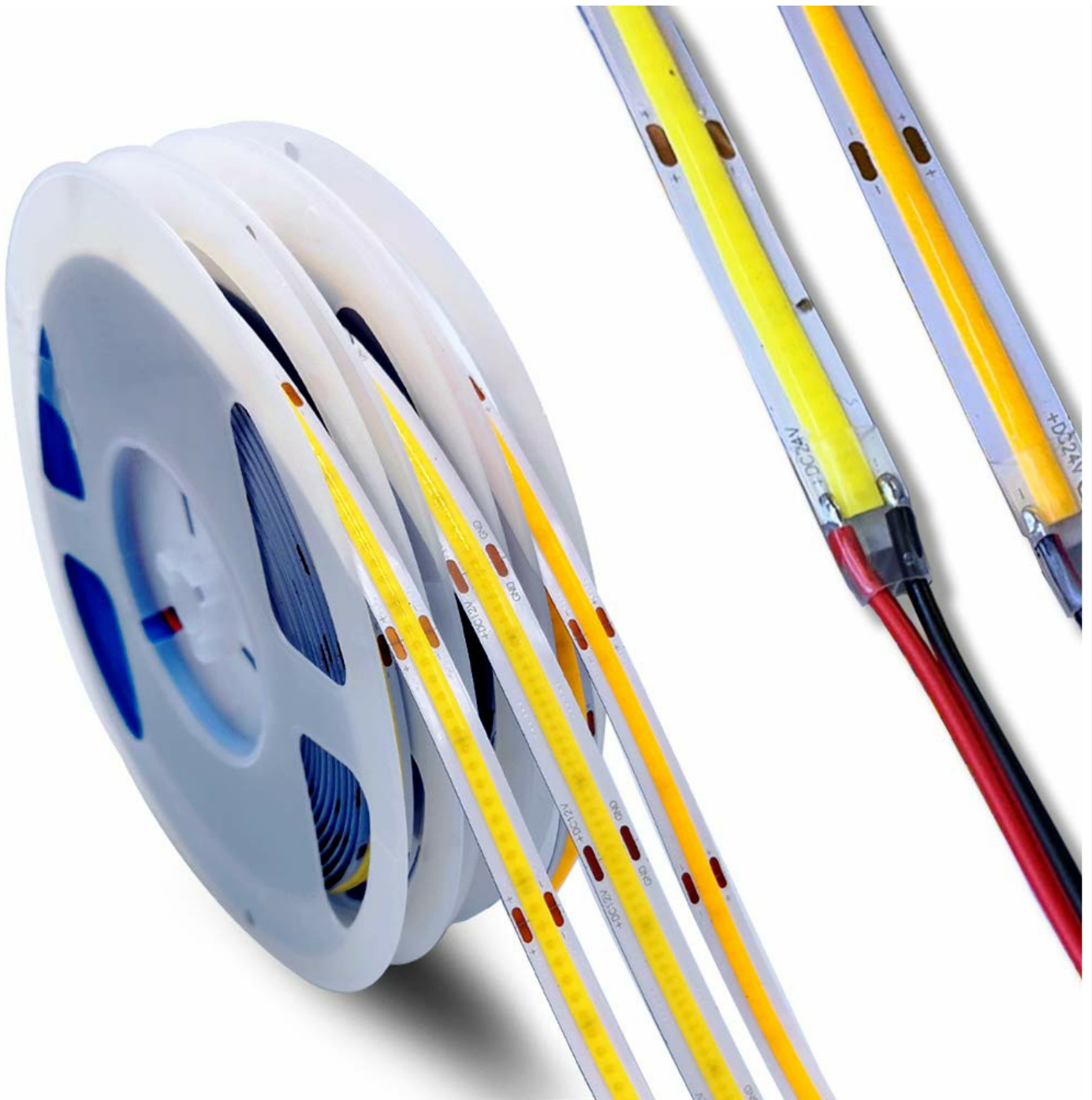


Image 1.1: weisuan-Tuodi COB LED Strip, coiled on a reel, with a detailed view of the strip's construction and wiring connections.

2. SAFETY INFORMATION

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

- **Power Supply:** This LED strip requires a DC 12V power supply (not included). Ensure the power supply matches the voltage and wattage requirements of your LED strip length. Using an incorrect power supply can damage the strip or pose a fire risk.
- **Installation Environment:** Install the LED strip in a dry environment. If used outdoors, ensure proper waterproofing for all connections and the strip itself to prevent water damage and electrical hazards.
- **Cutting:** Only cut the LED strip at designated cutting marks. Cutting elsewhere will damage the circuit and render that section unusable.
- **Heat:** While designed for low heat, ensure adequate ventilation around the strip, especially when installed in enclosed spaces, to prevent overheating.
- **Handling:** Avoid bending the strip sharply or applying excessive force, as this can damage the internal components.
- **Children:** Keep the product out of reach of children.

- **Professional Installation:** If you are unsure about any installation steps, consult a qualified electrician.

3. WHAT'S IN THE BOX

Your package should contain the following item:

- 1 × COB LED strip (Power supply is not included)

Please inspect the contents upon receipt and contact your retailer if any items are missing or damaged.

4. SETUP AND INSTALLATION

Follow these steps to properly set up your COB LED strip:

4.1 Required Components (Not Included)

- **DC 12V Power Supply:** Select a power supply with sufficient wattage for your LED strip length.
- **Optional Accessories:** For enhanced control, consider a PIR Body Sensor Switch (e.g., B07WG66JMV), PWM Touch Panel Dimmer (e.g., B08SJF1Z3X), or Hand Sweep Sensor (e.g., B08SBX1DVB). Search for these item numbers on Amazon.

4.2 Preparing the LED Strip

1. **Measure and Cut (if necessary):** Determine the desired length for your installation. The LED strip can be cut at specific intervals. Refer to the specifications for precise cutting lengths based on your LED density:
 - 320 LEDs/m: Cut every 50mm
 - 384 LEDs/m: Cut every 42mm
 - 528 LEDs/m: Cut every 45mm

Always cut only at the designated marks to ensure functionality.

2. **Clean the Surface:** Ensure the mounting surface is clean, dry, and smooth for optimal adhesion.

4.3 Connecting the Power Supply

1. Connect the positive (+) and negative (-) wires of the LED strip to the corresponding terminals on your DC 12V power supply. Ensure correct polarity.
2. If using an optional controller (dimmer, sensor), connect it between the power supply and the LED strip according to the controller's instructions.

4.4 Mounting the LED Strip

1. Peel off the protective backing from the adhesive tape on the back of the LED strip.
2. Carefully press the strip onto the desired surface, ensuring firm and even contact along its entire length.

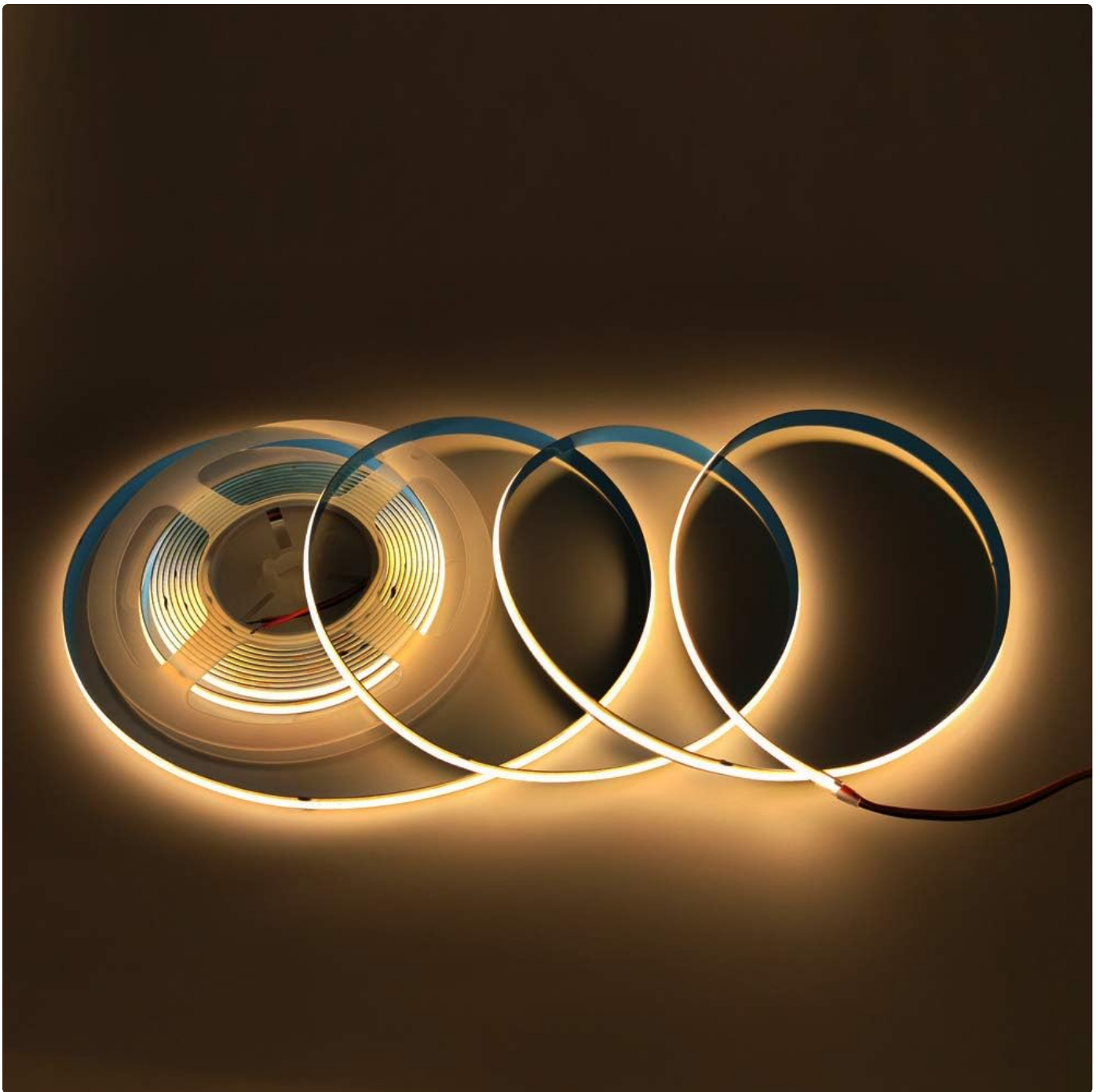


Image 4.1: The COB LED strip emitting warm light, demonstrating its flexible nature and uniform illumination.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

Once the LED strip is properly installed and connected to a DC 12V power supply, simply turn on the power supply to illuminate the strip. If a switch is integrated into your power supply or controller, use that to control the light.

5.2 Dimming (with compatible dimmer)

If you have installed a compatible PWM touch panel dimmer or similar controller, you can adjust the brightness of the LED strip. The dimmable range is typically 0% to 100%.

Product Features



Low Voltage, Safe to use

User can touch strip light directly

Brightness Dimmable

Dimmable range is 0%~100%



Smooth and soft, No harsh light

352LEDs/M density make lighting continuous and even

Image 5.1: Visual representation of key product features: low voltage for safe handling, dimmable brightness (0%-100%), and smooth, continuous light output from high-density LEDs.

6. MAINTENANCE

The weisuan-Tuodi COB LED Strip requires minimal maintenance.

- **Cleaning:** Ensure the LED strip is powered off before cleaning. Gently wipe the surface with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the strip.
- **Inspection:** Periodically check the connections and the strip for any signs of damage or wear.
- **Storage:** If storing the strip, ensure it is coiled loosely and kept in a dry, cool place away from direct sunlight.

7. TROUBLESHOOTING

If you encounter issues with your LED strip, refer to the following common problems and solutions:

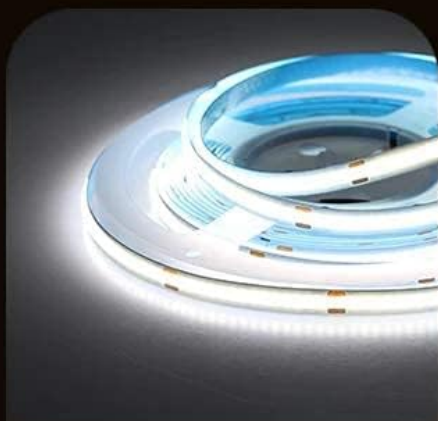
- **LED Strip does not light up:**
 - Check if the power supply is properly connected and receiving power.

- Verify that the positive (+) and negative (-) connections are correct.
- Ensure the power supply's wattage is sufficient for the length of the LED strip.
- If using a controller, ensure it is correctly installed and functioning.
- **Lights are dim or uneven, especially at the end of the strip:**
 - This can be due to voltage drop over longer lengths. For strips longer than 5 meters or high-power strips, consider injecting power at both ends or at multiple points along the strip to maintain uniform brightness.
 - Ensure the power supply is providing a stable 12V output.
- **Sections of the strip are not lighting up:**
 - This may indicate damage to the circuit in that section. Ensure the strip was cut only at designated marks.
 - Check for physical damage or sharp bends that might have broken internal connections.

8. SPECIFICATIONS

The following table details the specifications for the weisuan-Tuodi DC 12V Premium COB LED Strip:

Feature	Detail
Brand	weisuan-Tuodi
Model Number	c7235e09-f9bf-486d-89b2-3d0c43e4b10b
Input Voltage	DC 12V
LED Quantity (per meter)	320 LEDs/m, 384 LEDs/m, 528 LEDs/m
PCB Width	320 LEDs/m: 8mm; 384 LEDs/m: 8mm; 528 LEDs/m: 10mm
Cutting Length	320 LEDs/m: every 50mm; 384 LEDs/m: every 42mm; 528 LEDs/m: every 45mm
Color Temperature Options	Warm White (3000K), Natural White (4000K), Cool White (6000K)
Power (per 5 meters)	320 LEDs/m: 40W; 384 LEDs/m: 50W; 528 LEDs/m: 80W
Lumen (per meter)	320 LEDs/m: 4500LM/M; 384 LEDs/m: 5500LM/M; 528 LEDs/m: 7500LM/M
Color Rendering Index (CRI)	Ra >90
Operation Temperature	-20°C to +45°C
View Angle	180 degrees
Material	Copper, Metal
Item Weight	3.7 ounces
Manufacturer	Shenzhen Weisuan Digital Technology Co., Ltd
UPC	718774657039



6000K



4000K



3000K



Image 8.1: Illustrates the visual difference between 6000K (Cool White), 4000K (Natural White), and 3000K (Warm White) color temperatures when applied to an outdoor setting.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase.

© 2024 weisuan-Tuodi. All rights reserved.

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

Open the live page

<https://manuals.plus/asin/B08SHHRBLC>

More documents and user manuals: <https://manuals.plus/>