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MiBOXER PW5

MiBOXER PW5 5-in-1 LED Controller User Manual

Model: PW5

Introduction

The MiBOXER PW5 5-in-1 LED Controller is designed for precise and convenient management of various LED lighting systems. It supports multiple LED types and offers dual wireless connectivity for seamless integration and control.
This manual provides essential information for the safe and efficient installation, operation, and maintenance of your PW5 LED Controller.

Key Features

- **5-in-1 Compatibility:** Supports Single Color, Dual White (CCT), RGB, RGBW, and RGB+CCT LED setups.
- **Dual Wireless Connectivity:** Features WiFi and 2.4GHz technology for stable operation and smart app integration.
- **High Output Capacity:** Handles up to 20A output, suitable for high-power LED installations.
- **Smart Control:** Compatible with "Tuya Smart" app and third-party voice control systems like Alexa and Google Assistant.
- **Color and Dimming Control:** Offers 16 million colors, adjustable color temperature, brightness, and saturation.
- **PUSH Dimming Support:** Allows for flexible dimming control.
- **Memory Function:** Retains the last-used settings.
- **Wide Voltage Range:** Operates on DC12-24V.

Package Contents

- MiBOXER PW5 5-in-1 LED Controller
- User Manual

Image: The MiBOXER PW5 LED Controller shown alongside its retail packaging and a small instruction manual.

Setup and Installation

Safety Precautions

- Ensure power is disconnected before installation.
- Install in a dry environment, away from moisture and extreme temperatures.
- Verify correct voltage (DC12-24V) and current ratings for your LED strips and power supply.
- Do not exceed the maximum output current of 20A.

Wiring Diagram

Connect your LED strips and power supply to the controller as shown in the diagram below. Ensure correct polarity for all connections.

Image: Detailed wiring diagram of the MiBOXER PW5 controller. It shows the V+ and V- input terminals, GND and PUSH dimming terminals, and output terminals labeled V+, W, WW, CW, R, G, B for various LED strip types. An indicator output mode table is also visible, showing White for Single Color, Yellow for Dual White, Red for RGB, Green for RGBW, and Blue for RGB+CCT.

1. Connect the DC12-24V power supply to the **INPUT V+** and **V-** terminals.
2. Connect your LED strip(s) to the corresponding **OUTPUT** terminals based on your LED type:
    - **Single Color:** Connect to V+ and W (White)
    - **Dual White (CCT):** Connect to V+, WW (Warm White), and CW (Cool White)
    - **RGB:** Connect to V+, R (Red), G (Green), and B (Blue)
    - **RGBW:** Connect to V+, R, G, B, and W (White)
    - **RGB+CCT:** Connect to V+, R, G, B, WW, and CW
3. For PUSH dimming functionality, connect a compatible PUSH switch to the **GND** and **PUSH** terminals.

Mounting

The controller is designed for tabletop mounting. Ensure it is placed on a stable, flat surface with adequate ventilation.

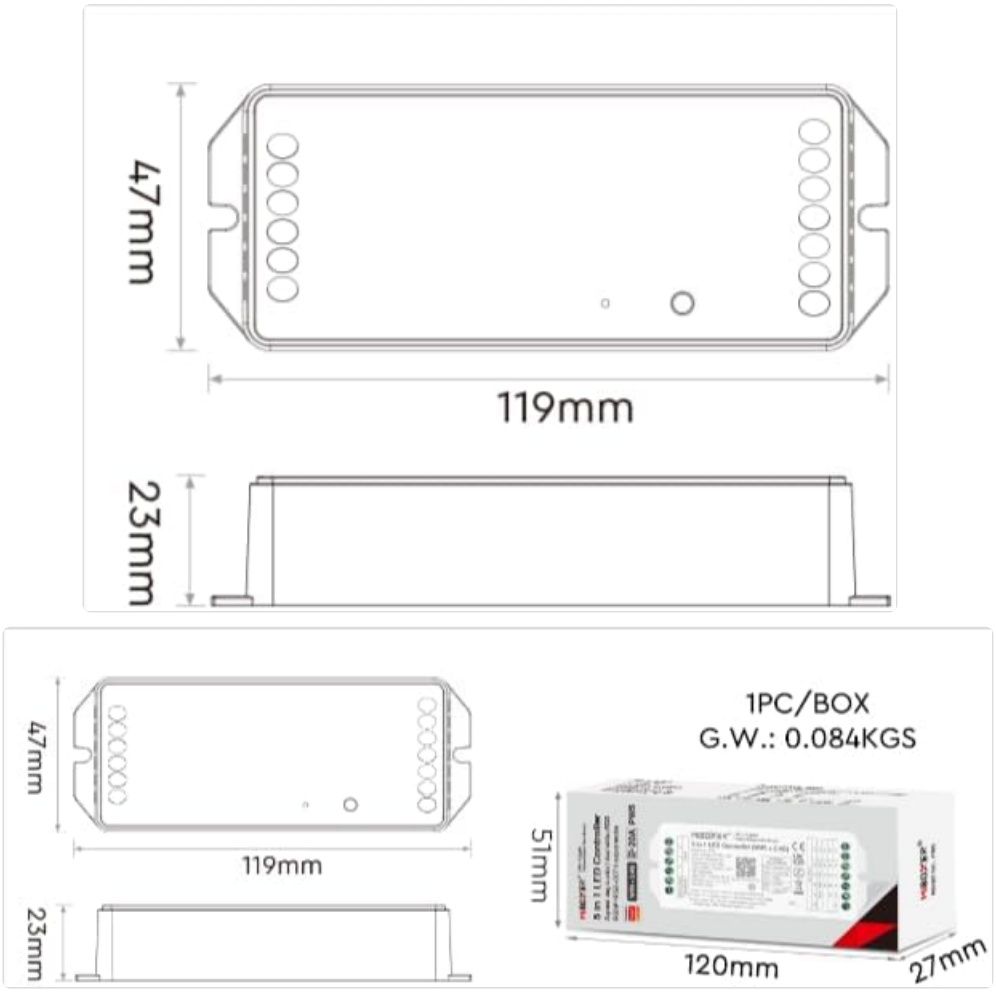

Image: Two diagrams illustrating the physical dimensions of the MiBOXER PW5 controller. The first shows a top-down view with a length of 119mm and width of 47mm. The second shows a side view with a height of 23mm, and also includes package dimensions of 120mm x 51mm x 27mm.

Operation

Switching Output Modes

The PW5 controller supports 5 different output modes. To switch between these modes:

- Press the **"SET"** button once to cycle through the output modes.
- The indicator light on the controller will change color to reflect the current mode:
    - White: Single Color
    - Yellow: Dual White
    - Red: RGB
    - Green: RGBW
    - Blue: RGB+CCT

2.4G RF Remote Control

The controller can be linked to a compatible 2.4G RF remote control (sold separately).

- To link: Power on the controller. Within 3 seconds, press the "ON" button on the remote control 3 times. The LED strip will flash to confirm successful linking.
- To unlink: Power on the controller. Within 3 seconds, press the "ON" button on the remote control 5 times. The LED strip will flash to confirm unlinking.

WiFi and App Control (Tuya Smart)

The PW5 controller integrates with the "Tuya Smart" app for advanced control via WiFi.

1. Download the "Tuya Smart" app from your device's app store.
2. Register or log in to your Tuya Smart account.
3. To activate WiFi pairing mode: Long press the**"SET"** button for 3 seconds until the indicator flashes quickly.
4. In the Tuya Smart app, follow the instructions to add a new device. Select the appropriate lighting device type.
5. Once connected, you can control brightness, color, color temperature, saturation, and set up group/multi-zone control.
6. The app also supports music rhythm functions.

Voice Control (Alexa, Google Assistant)

After successful integration with the Tuya Smart app, you can link your account to voice assistants like Amazon Alexa or Google Assistant for hands-free control.

1. Open the Alexa or Google Home app.
2. Navigate to the "Skills" or "Works with Google" section.
3. Search for and enable the "Tuya Smart" skill/service.
4. Link your Tuya Smart account when prompted.
5. Discover devices. Your MiBOXER PW5 controller should appear.
6. You can now use voice commands such as:
    - "Alexa, turn on the living room lights."
    - "Hey Google, set the kitchen lights to blue."
    - "Alexa, dim the bedroom lights to 50%."

Maintenance

- Keep the controller clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure proper ventilation around the device to prevent overheating.
- Regularly check wiring connections for security and integrity.

Troubleshooting

Problem	Possible Cause	Solution
LEDs not lighting up	No power to controller; incorrect wiring; faulty LED strip.	Check power supply connection; verify input/output wiring polarity; test LED strip with another power source.
Remote control not working	Remote not linked; remote battery low; interference.	Re-link the remote control; replace remote battery; reduce interference sources.
App control not working	Controller not connected to WiFi; incorrect app settings; WiFi signal weak.	Ensure controller is in WiFi pairing mode and connected to your network; check app settings; move controller closer to WiFi router.
Incorrect colors or dimming	Wrong output mode selected; incorrect wiring for LED type.	Press "SET" button to cycle to the correct output mode; verify LED strip wiring matches the selected mode.

Specifications

Model Number	PW5
Input Voltage	DC12-24V
Output Current	Max 20A
Number of Channels	5
Connectivity	WiFi, 2.4GHz RF
Control Distance (2.4G)	30m
Operating Temperature	-10°C to 40°C
Dimensions	119mm x 47mm x 23mm (approx. 4.68 x 1.85 x 0.9 inches)
Item Weight	3.2 ounces (approx. 90g)
Manufacturer	Miboxer

Warranty and Support

For warranty information and technical support, please refer to the official MiBOXER website or contact your retailer. Keep your purchase receipt for warranty claims.
For further assistance, you may visit the MiBOXER Store on Amazon.

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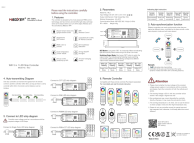
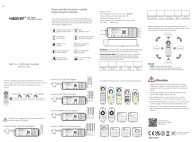
Related Documents - PW5

	[MIBOXER SPIB5 5-in-1 SPI+DMX LED Controller User Manual] Detailed user manual for the MIBOXER SPIB5 5-in-1 SPI+DMX LED Controller, covering features, product parameters, connection diagrams, app control, voice control, and safety instructions.
	[MiBoxer WL5 WiFi 5-in-1 LED Strip Controller User Manual and App Guide] Comprehensive guide for the MiBoxer WL5 WiFi 5-in-1 LED Strip Controller, covering features, specifications, wiring diagrams, remote compatibility, and detailed instructions for the MiBoxer mobile app.
	[MiBoxer SPIB5 5-in-1 SPI+DMX LED Controller: Features, Setup, and App Control] Comprehensive guide to the MiBoxer SPIB5 5-in-1 SPI+DMX LED Controller, covering its features, technical specifications, connection diagrams, app control via TUYA, remote pairing, and voice assistant integration.
	[Kontroler LED MiBOXER SPIW5 5 w 1 SPI+DMX (WiFi+2.4G) - Instrukcja i Specyfikacja] Szczegółowa instrukcja obsługi i specyfikacja techniczna kontrolera LED MiBOXER SPIW5. Dowiedz się o funkcjach SPI, DMX, sterowaniu przez WiFi i 2.4G, trybach dynamicznych, muzycznych oraz integracji z aplikacją Tuya Smart, Alexa i Google Home.
	[MiBoxer WL5 WiFi 5 in 1 LED Strip Controller User Manual] Comprehensive user guide for the MiBoxer WL5, a 5-in-1 WiFi LED strip controller compatible with MiBoxer APP, Amazon Alexa, and Google Assistant. Learn about features, setup, connections, and app control.
	[MIBOXER SPIW5 5-in-1 SPI+DMX LED Controller | WiFi & 2.4GHz Smart Control] Discover the MIBOXER SPIW5, a versatile 5-in-1 LED controller supporting SPI and DMX protocols with WiFi and 2.4GHz connectivity. Control single color, CCT, RGB, RGBW, and RGBCCT LED strips via app or voice assistants. Features dynamic modes, music sync, and timer functions.