TC601 Bluetooth Dimming Controller User Manual



The TC601 is a mini Bluetooth dimming controller supporting Android/iOS apps and a WeChat mini program with Chinese/English UI. Using a PWM dimming protocol, it drives two independent single-color fixture channels for dimming control.

带载灯具：单色PWM

PWM输出：8A/回路

Product Parameters

Operating voltage	DC 5 – 24 V	**Control mode**	APP / WeChat mini program (Bluetooth)
Dimensions	L58 × W78 × H22 mm	**Load type**	Single-color PWM, 8 A/channel

Key Features

1. Two independent PWM single-color channels.
2. Dynamic effects and smooth static dimming.
3. 8 A per channel; dimming amplifier can be driven from the output.
4. Timer on/off, power-on state recall, OTA firmware upgrade.
5. Multi-device group control.

App Download

Search for **"Bluehor Lighting Control System"** in the App Store (iOS); scan the Android QR code or WeChat mini-program QR code shown in the original manual.

Connecting the Device

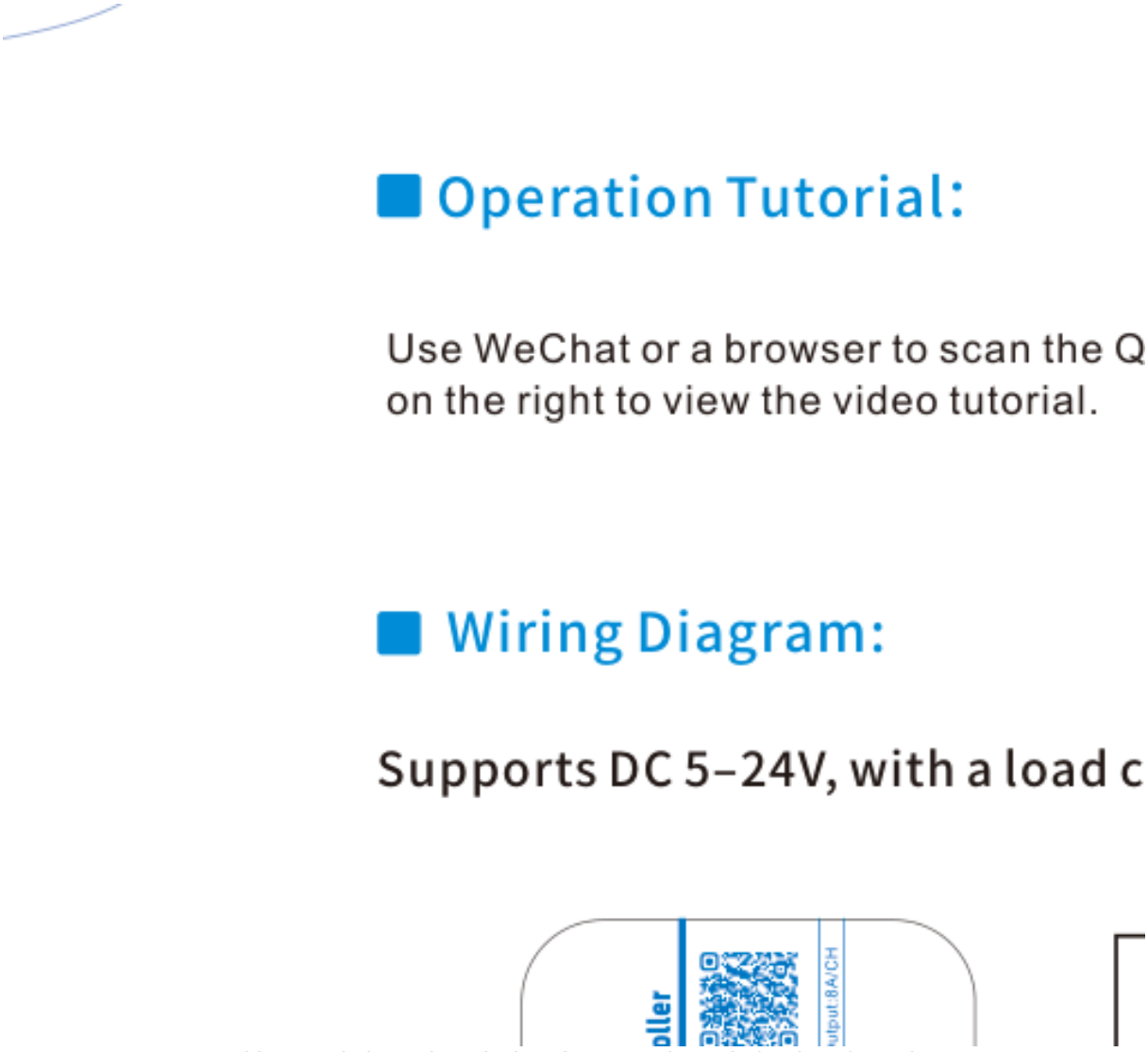
1. Tap the **+ Add Device** button in the app (top-right corner) to enter search mode.
2. Tap your controller in the scanned device list to add it.
3. Tick the device and tap **Control Device** to enter the control interface.

If the device cannot be found:

1. Check the controller is powered on and the indicator light is on.
2. Check phone Bluetooth is enabled.
3. Keep the phone close to the controller during search.
4. On first launch, allow all system permission requests.
5. For the WeChat mini program, enable Location and Bluetooth permissions (mini program top-right Edit → Settings → set to "While using the mini program").

Wiring Diagram

1. Supports DC 5 – 24 V input, 8 A per channel.
2. Connect each channel's V+ and V- to the corresponding fixture; common negative.



Wiring: two independent single-color PWM channels (each V- / 24V+).