CCT LED Dimmer

- 2 channel constant voltage CCT LED RF dimmer with 3-button.
- Switch and dimming color by 3 buttons.
- Match with RF 2.4G single zone or multiple zone dual color remote control optional.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Over-heat / Over-load / Short circuit protection, recover automatically.



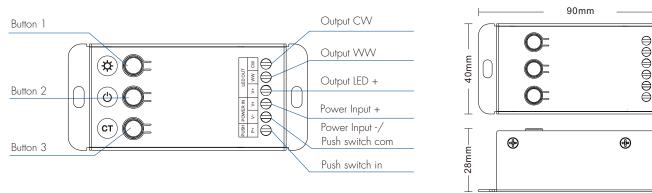
C€ RoHS

The picture is for reference only, please refer to the actual product 3-button / RF dimming / Step-less dimming / Four PWM frequency / Push Dim / Multiple protection

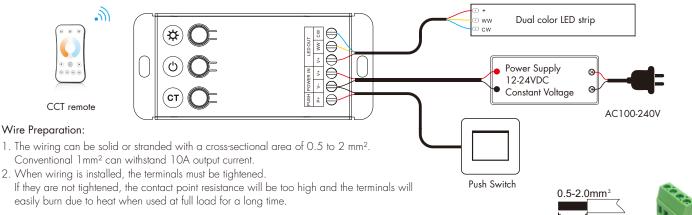
Technical Parameters

| Input and Output | | Dimming data | | Safety and EMC | |
|-------------------------|--|-------------------------|---|-----------------|--|
| Input voltage | 12-24VDC | Input signal | 3-button + RF 2.4GHz+Push Dim | EMC standard | EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-17 |
| Input current | 20.5A | Control distance | 30m(Barrier-free space) | | |
| Output voltage | 2 x (12-24)VDC | Dimming gray scale | 4096 (2^12) levels | Safety standard | EN 61347-1/-2 EN 62493 |
| Output current | 2x10A@500Hz/2KHz 2x8A@8KHz 2x6A@16KHz | Dimming range | 0-100% | | |
| | | Dimming curve | Linear | Radio equipment | ETSI EN 300 440 |
| Output power | 240-480W@500Hz/2KHz 192-384W@8KHz 144-288W@16KHz | PWM frequency | 500Hz/2KHz/8KHz/16KHz | Certification | CE RoHS |
| | | Warranty and Protection | | Package | |
| Environment | | Warranty | 5 years | Size | L100 x W46 x H38mm |
| Operation temperature | Ta: -30°C ~ +55°C | Protection | Reverse polarity Over-heat Over-load Short circuit | Gross weight | 0.081kg |
| Case temperature (Max.) | Tc: +85°C | | | | |

Mechanical Structures and Installations



Wiring Diagram



Note: The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip), otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.

6-7mm

Button Function



Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.



Turn on or off light.



Adjust color temperature, short press 3 color cycle (warm white, natural white, cold white), long press 1-6s for continuous 256 levels adjustment.

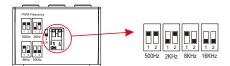
Push Dim

| Click | ON/OFF | | |
|-----------------|--|--|--|
| Double click | Switch between 3 levels color temperature (warm white, true white, cool white), | | |
| Long press(>1s) | Default long press to adjust brightness. Long press to adjust the color temperature after double-click or click to turn off the light. (Long press to adjust the color temperature status will automatically exit after 5 seconds) | | |

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching(momentary) wall switchs. If more than one controller are connected to the same push switch, do a long press for more than 10s,

then the system is synchronized and all lights in the group dim up to 100%. This means there is no need for any additional synchrony wire in larger installations. We recommend the number of controllers connected to a push switch does not exceed 25 pieces, the maximum length of the wires from push to controller should be no more than 20 meters.

PWM Frequency Setting



We can select four PWM frequency: 500Hz, 2KHz, 8KHz or 16KHz. Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's button

Match:

Long press button 1 and button 3 for 2s, the output LED blinks 2 times, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote. The output LED blinks 3 times means match is successful.

Delete:

Press and hold button 1 and button 3 for 5s to delete all match, The output LED blinks 5 times means all matched remotes were deleted.

Use Power Restart

Match:

Switch off the power, then switch on power again, repeat again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The output LED blinks 3 times means match is successful.

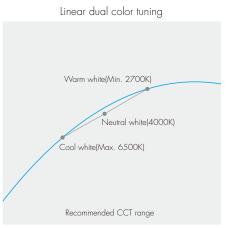
Delete

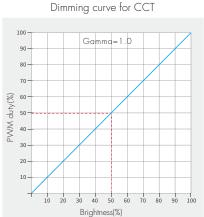
Switch off the power, then switch on power again, repeat again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote.

The output LED blinks 5 times means all matched remotes were deleted.

Page 2

Dimming Curve





Installation Precautions

- 1. The products shall not be stacked, the distance should be \geq 20cm, so as not to affect lifespan of the products due to poor heat dissipation.
- 2. The product shall not be installed close to the switching power supply with an interval of \geq 20cm to avoid radiation interference of the switching power supply.
- 3. The installation height shall be ≥ 1 m from the floor to avoid shortening the remote control distance due to too weak reception signal.
- 4. The products are not allowed to be close to or covered by metal objects, with an interval of \geq 20cm to avoid signal attenuation and shorten the remote distance.
- 5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of \geq 20cm to avoid signal interference.