V5-T
RF 5 CH LED Controller

RF DIM/CCT/ RGB/RGBW/RGB+CCT

Features

- 5-in-1function, suitable for single color, color temperature, RGB, RGBW, RGB+CCT LED strips.
- Support 3 buttons to turn on/off the light, adjust brightness, color temperature, RGB color, dynamic mode and speed.
- Support touch color wheel to adjust brightness, color temperature or RGB color.
- Match with RF 2.4G single or multi-zone 1-5 color remote control optional.
- Can be used as remote control, output RF 2.4G signal, and control other RF LED controller or RF dimming driver.
- 4096 level 0-100% smooth dimming, no flicker.
- When used as an RGB/RGB+W/RGB+CCT LED controller, built in10 RGB dynamic mode, including jump or gradual change style.
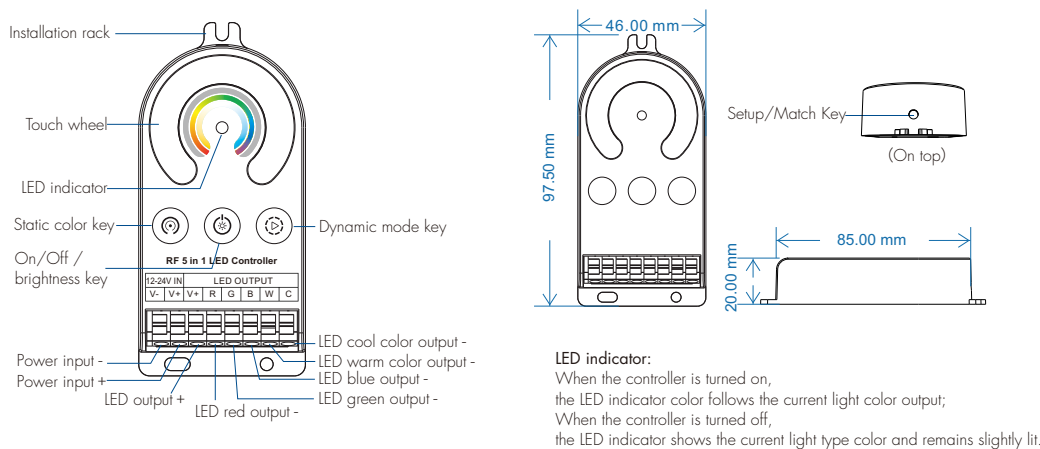

CE RoHS

Technical Parameters

Input and Output

Input voltage	12-24VDC
Output voltage	5x(12-24)VDC
Output current	5CH, 3A/CH
Output power	5x(36-72)W
Output type	Constant voltage

Warranty and Protection

Warranty	5 years
Protection	Anti-reverse

Dimming data

Input signal	Touch button + RF 2.4GHz
Control distance	30m((Barrier-free space)
Dimming levels	4096 (2^{12}) levels
Dimming range	0-100%
Dimming Curve	Logarithmic
PWM Frequency	2KHz(default)

Package

Size	L110 x W57 x H28mm
Gross weight	0.072kg

Safety and EMC

EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3
Safety standard	EN 60669-1/-2
Radio standard	ETSI EN 300 440 ETSI EN 300 328
Certification	CE RoHS

Environment

Operation temperature	Ta: -20℃ ~ +55℃
IP rating	IP20

Mechanical Structures and Installations

- Installation rack
- Touch wheel
- LED indicator
- Static color key
- On/Off / brightness key
- Dynamic mode key
- Power input -
- Power input +
- LED output +
- LED red output -
- LED green output -
- LED blue output -
- LED warm color output -
- LED cool color output -

46.00 mm
97.50 mm
85.00 mm
20.00 mm

Setup/Match Key
(On top)

LED indicator:
When the controller is turned on, the LED indicator color follows the current light color output;
When the controller is turned off, the LED indicator shows the current light type color and remains slightly lit.
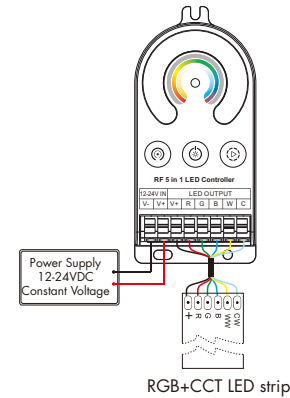
Factory default setting:
Long press the setup/match button for 15s, the controller restores the factory default settings.
Factory default: Brightness 100%, RGB+CCT light type, unmatched RF remote control.

Wiring Diagram and Button Function

● Used for RGB+CCT

RGB+CCT LED strip

When used as RGB color wheel, touch to adjust the static RGB color.
When used as CCT wheel, touch to adjust the color temperature.

Short press: Switch color light or color temperature, and switch to RGB color wheel or color temperature wheel.
Long press: Adjust the color light or color temperature continuously.
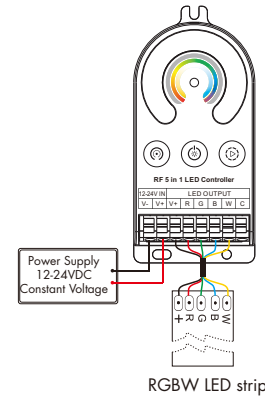
Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.

Short press: Enter dynamic mode, switch 10 dynamic modes in sequence.
Long press for 2s: Set 5 speeds sequentially, switch one speed every 2s.

● Used for RGB+W

RGBW LED strip

When used as RGB color wheel, touch to adjust the static RGB color.
When used as white light brightness wheel, touch to adjust the white light brightness.

Short press: Switch color light or white light, and switch to RGB color wheel or white light brightness wheel.
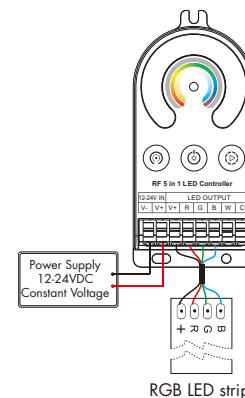Long press: Adjust the color light or white light brightness continuously.

Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.

Short press: Enter dynamic mode, switch 10 dynamic modes in sequence.
Long press for 2s: Set 5 speeds sequentially, switch one speed every 2s.

● Used for RGB

RGB LED strip

When used as RGB color wheel, touch to adjust the static RGB color.
When used as saturation wheel, touch to adjust the current color saturation of the color.

Short press: Switch color light or mixed white light (current color + 50% saturation), and switch to RGB color wheel or saturation wheel.
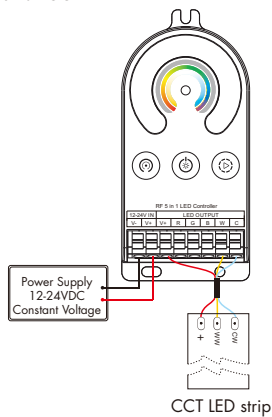Long press: Adjust the color light or color saturation continuously.

Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.

Short press: Enter dynamic mode, switch 10 dynamic modes in sequence.
Long press for 2s: Set 5 speeds sequentially, switch one speed every 2s.

● Used for CCT

Touch to adjust the color temperature.

Short press: Enter static mode, switch 3 color temperatures in sequence (Warm White - Natural White - Cool White).
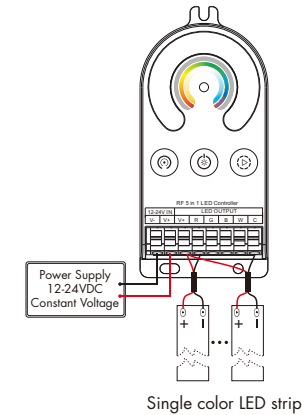Long press: Adjust the color temperature continuously.

Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.

Enter the color temperature fade dynamic mode and switch 5 speeds in sequence.

CCT LED strip

● Used for DIM

Touch to adjust the brightness.

Enter static mode, sequentially switching 5 levels brightness(10%, 25%, 50%, 75%, 100%).

Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.

Enter fade-in and fade-out dynamic mode, and switch 5 speeds in sequence.

Single color LED strip

Note:
When the RGB/RGB+W/RGB+CCT light type is in static mode, long-press ⚙ button can also adjust the color saturation.

Light Type Setting

User need to set the correct light type via the setup key before matching the RF remote control.
Long press the setup key to switch 5 light types sequentially, every long press 2s to switch one, the LED indicator turns to the corresponding color.

Light type	DIM	CCT	RGB	RGB+W	RGB+CCT
LED indicator color	white	yellow	red	green	blue

Note:
For RGB+W light type, RGB channel and W channel can not be turned on at the same time;
For RGB+CCT light type, RGB channel and CCT channel can not be turned on at the same time.

V5-T Match with RF Remote Control

There are two ways to match/delete:

Use match key

Match:
Short press match key,
immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote,
The indicator blinks means match is successful.

Delete:
Press and hold match key for 10s to delete all match,
The LED indicator blinks means all matched remotes were deleted.

Use Power Restart

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

Delete:
Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote.
The light blinks 5 times means all matched remotes were deleted.

V5-T as RF Remote Control

V5-T can be matched with one or more RF LED controllers/RF dimming drivers (including single color, color temperature, RGB, RGBW, RGB+CCT controllers or dimming drivers) to remote control other fixtures.

Use Controller's Match key

Match:
Short press controller's or driver's match key,
immediately press ⚙ button of V5-T.
The LED indicator fast flash means match is successful.

Delete:
Long press controller's or driver's match key for 5s to delete all match.
The LED indicator fast flash means all matched remotes were deleted.

Use Power Restart(optional)

Match:
Switch off the power of the controller, then switch on power, repeat again.
Immediately press the ⚙ button of V5-T 3 times.
The light flashes 3 times means match is successful.

Delete:
Switch off the power of the controller, then switch on power, repeat again.
Immediately press the ⚙ button of V5-T 5 times.
The light flashes 5 times means all matched remotes were deleted.

Dynamic Change Mode

Used for RGB/RGB+W:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Used for RGB+CCT:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Color temperature smooth	10	White fade in and out