LDT-BTN-RF-4CV-1A

One-Button Four-Channel RF LED Controller

An inline RGBW controller with a single local control button. It can receive a matching RF remote and can also transmit control to compatible RGBW receivers.

Model specifications

Product function	Inline LED controller and RF control interface
Lighting type	RGBW
Input / output voltage	5-24 VDC
LED output channels	4
Maximum output current	1 A/channel
Maximum output power	4 x (5-24 W)
Controls	One local button + compatible RF 2.4 GHz remote
Additional function	RF transmitter for compatible RGBW receivers
Dimming range	1-100%
Dimming resolution	4096 levels
PWM frequency	2 kHz
Dimming curve	Logarithmic
RF distance	Up to 30 m in unobstructed space
Operating temperature	-25 to +55 °C
Maximum case temperature	+85 °C
IP rating	IP20
Body dimensions	70 x 34.5 x 15 mm
DC connector	5.5 mm outside / 2.1 mm inside diameter
Protection	Reverse polarity and overheat

A compatible receiver and the correct lighting mode are required when using its RF transmitter function.

The following technical-reference pages retain the complete diagrams, dimensions, settings and installation instructions. Select the lighting variant stated on this cover; family diagrams may also illustrate other variants.

RF | RGBW

One-Button RF RGBW LED Controller

- Use to control the RGBW LED strip.
- One button for on/off, RGB color and white light brightness adjustment.
- 4096 levels dimming smoothly without any flash.
- Operate with LED indicator light.
- Built in 10 dynamic mode, include jump or gradual change style.
- Match with RF 2.4G single zone or multiple zone RGBW remote control.
- Used as RF remote control to output RF 2.4G signal, remote control of other RF RGBW controllers or RF dimming drivers.



CE RoHS

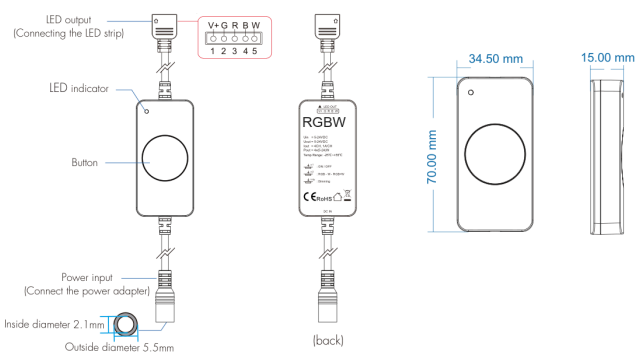
Technical Parameters

Input and Output	
Input voltage	5-24VDC
Output voltage	5-24VDC
Output current	4CH,1A/CH
Output power	4x(5-24)W
PWM Frequency	2000Hz
Dimming curve	Logarithmic
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity, Over-heat

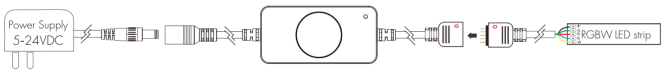
Dimming data	
Input signal	One botton + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 levels
Dimming range	1-100%
Environment	
Operation temperature	Ta: -25 °C ~ +55 °C
Case temperature (Max.)	Tc: +85 °C
IP rating	IP20

Safety and EMC	
EMC standard	EN IEC 55015 EN IEC 61547 ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2
Radio equipment	ETSI EN 300 440
Certication	CE RoHS
Package	
Size	110x57x28mm(LxWxH)
Gross weight	0.048kg

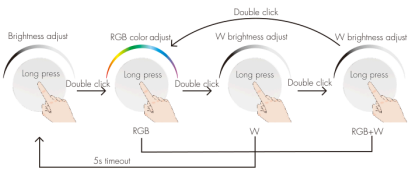
Mechanical Structures and Installations



Wiring Diagram



Button Function



Short press: Turn on or off light.

Double click: Switch the three working modes of color (RGB), white light (W), color + white light (RGB+W, RGB and white light are on at the same time).
At the same time and the state of long press to adjust the color (RGB) or adjust the brightness of white light state (W and RGB + W mode).
After 5s of no operation, it will automatically return to the state of long press to adjust brightness.

Long press(1-6s): Adjust the brightness, color or white brightness, long press again after each release, adjust in the opposite direction. Adjust the brightness by default.

RGBW Match RF Remote Controller (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.

RGBW Used As RF Remote Controller

The RGBW in be matched with one or more RF RGBW LED controllers/RF dimming drivers to remotely control other fixtures via one-button operation.
For example, two RGBW introllers match with each other for synchronized control.
End user can choose the suitable match/delete ways.

Use the controller's Match key

Match:
Short press the controller/power supply's match key, immediately press the button.
The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold the controller/power supply's match key 5s,
The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

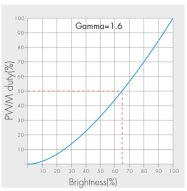
Match:
Switch off the power of the controller, then switch on power, repeat again.
Immediately short press the button 3 times.
The light blinks 3 times means match is successful.

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

Dynamic Mode List (RF remote control call-out only)

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

Dimming Curve



Packing List



LED Controller
1 pcs



1 pcs



Extension Cable
(12.5cm)
1 pcs