

VP+RT4

RF RGB/RGBW LED Controller Kit

Features

- DC socket or wiring screw terminal power input and 4 channel constant voltage output.
- Ultra sensitive color adjustment touch wheel.
- Smooth dimming and switch without any flickering.
- Built in 10 dynamic mode, include jump or gradual change style.
- Independent dimming function of each R, G, B, W channel to achieve millions of colors.
- 4 scene memory.
- Light on/off fade time 3s selectable.
- PWM frequency 1KHz, 2KHz, 4KHz or 8KHz selectable.



FC CE RoHS

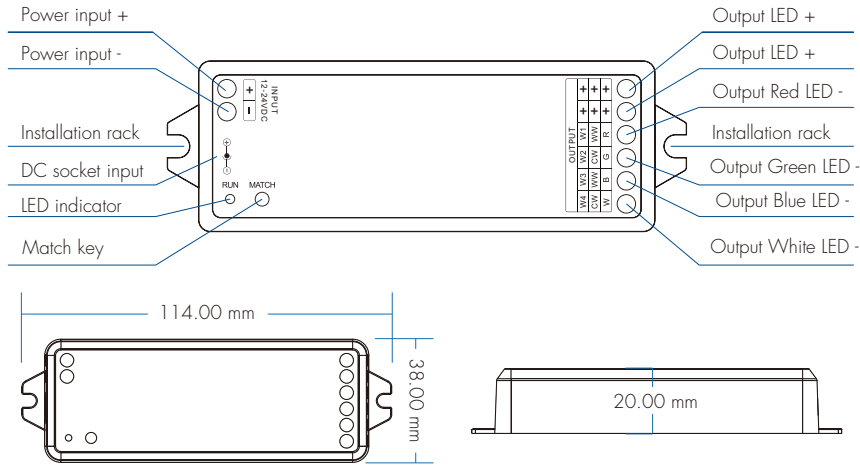
Technical Parameters

LED Remote		LED Controller	
Output signal	RF 2.4GHz	Input voltage	12-24VDC
Work voltage	3VDC(AAAx2)	Input current	16.5A
Work current	<5mA	Output voltage	4 x (12-24)VDC
Standby current	<10μA	Output current	4CH, 4A/CH,Max 6A
Standby time	2 years	Output power	4 x (48-96)W
Remote distance	30m(Barrier-free space)	Output type	Constant voltage
Safety and EMC		Dimming data	
EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-3	Dimming level	4096 levels
Safety standard	EN 61347-1/-2 EN 62493	Dimming range	0-100%
Radio Equipment	ETSI EN 300 440	Dimming curve	Logarithmic
Certification	CE RoHS FCC	PWM frequency	1000Hz
Warranty and Protection		Environment	
Warranty	5 years	Operation temperature	Ta: -30°C ~ +55°C
Protection	Reverse polarity, Short circuit	Case temperature (Max.)	Tc: +85°C
		IP rating	IP20

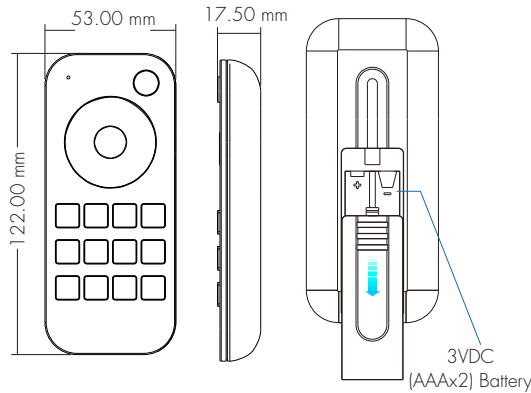
RF LED Controller

Match Remote Control (Two Match Ways)

Controller:



Remote:



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 Match key

Match:
Short press match key,
immediately press on/off key of the remote.

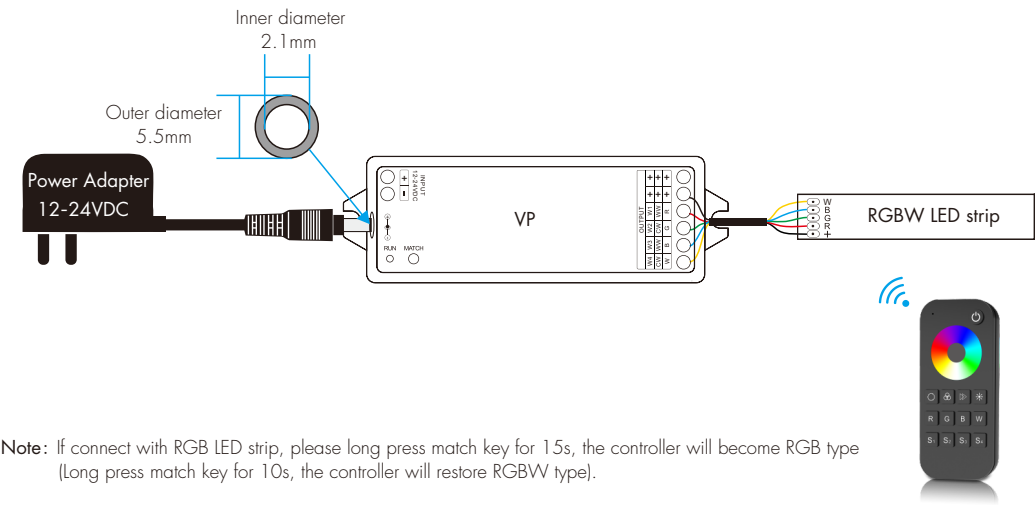
Delete:
Press and hold match key for 5s to delete all match,
The light blinks 5 times means all matched remotes
were deleted.

Use Power Restart

Match:
Switch off the power, then switch on power, repeat again.
Immediately short press on/off key 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 5 times on the remote.
The light blinks 5 times means all matched remotes were deleted.

Wiring Diagram



Note: If connect with RGB LED strip, please long press match key for 15s, the controller will become RGB type (Long press match key for 10s, the controller will restore RGBW type).

Light on/off fade time set:

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times. Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

Remote Function

Power : Turn on/off light.

Color Wheel : Touch to change static RGB color.

Match Key : Short press get 24 kinds static RGB color, long press for continuous static color adjustment.

Color Bar

1	5	9	13	17	21	25(11)
R 100%	R 100% G 100%	G 100%	G 100% B 100%	B 100%	R 100% B 100%	R 100%

Dynamic Mode : Short press run next dynamic mode, long press 2s run mode-cycle.

Speed : For dynamic RGB mode, adjust speed, short press 10 levels, long press 2s get the default speed. For static RGB color, adjust saturation, namely change current static RGB color to mixed white slowly, short press 11 levels, long press 1-6s for continuous 256 levels adjustment.

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

R G B : Short press get red, green or blue color directly. long press 1-6s to adjust R/G/B brightness continuously to achieve millions of colors.

W : For RGB light, short press turn on/off white(RGB mix), long press 1-6s to adjust saturation continuously, namely change current static color to mixed white slowly. For RGBW light, short press turn on/off VV channel, long press 1-6s to adjust VV brightness continuously, namely change saturation by add white color slowly.

S1 S2 S3 S4 : Short press recall the scene, long press 2s save current color into S1/2/3/4. the LED indicator display green when save OK.

RGB color light +W white light settings:

When the remote control is used for RGBW light control, it can be operated by long pressing **Power** and **W** key for 2s at the same time, to set both RGB color light and VV white light can be turned on at the same time or can not be turned on at the same time two ways. When the green indicator blinks twice, set the RGB color light and VV white light can not be turned on at the same time, That is, when the RGB color light is on, the white light automatically turn off, and when the white light is on, the RGB color light automatically turn off. When the green indicator blinks four times, set the RGB color light and VV white light are turned on at the same time(factory default)

PWM Frequency Setting

At the moment of power-up:
Long press the match key for 2s, set the output PWM frequency to 1KHz, the LED indicator flash 1 time.
Long press the match Key for 5s, set the output PWM frequency to 2KHz, the LED indicator flash 2 times.
Long press the match Key for 10s, set the output PWM frequency to 4KHz, the LED indicator flash 3 times.
Long press the match Key for 15s, set the output PWM frequency to 8KHz, the LED indicator flash 4 times.
The factory default PWM frequency is 1KHz.

Note: Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

PWM frequency and output current mapping:

$\frac{U_{in}}{U_{out}}$ PWM	1KHz	2KHz	4KHz	8KHz
12-24V	4A	4A	4A	3A

Dynamic Mode List

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

Statement

FCC ID Statement:
Mobile
RF Exposure Information
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

IC ID Statement:
Mobile
This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.