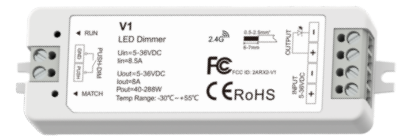# V1 + RT1

RF Dimming Single Color LED Controller Kit

- Ultra sensitive brightness adjustment touch wheel.
- Remote control support 5 quick brightness keys
  and 4 scene memories, 30s delay off.
- Smooth dimming and switch without any flickering.
- Connected with external push switch to achieve on/off
  and dimming function.
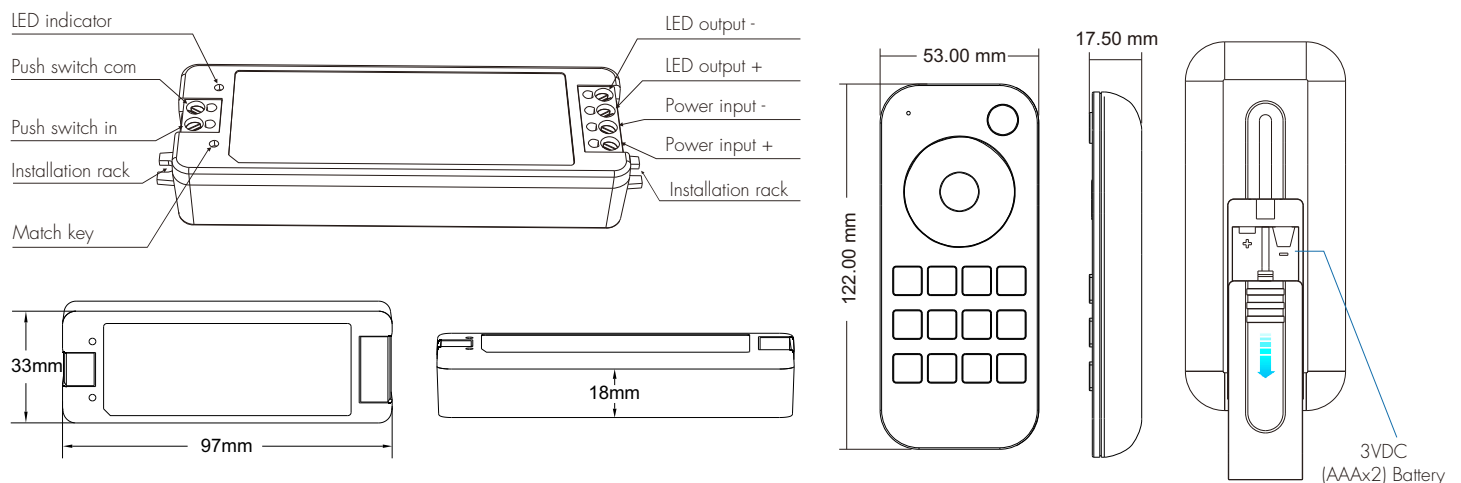- Light on/off fade time 3s selectable.

FC CE RoHS

Technical Parameters

LED Receiver's Input and Output		RF Remote's Input and Output		Safety and EMC	
Input voltage	5-36VDC	Output signal	RF 2.4GHz	EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-3
Input current	8.5A	Working voltage	3VDC(AAAx2)		
Output voltage	5-36VDC	Working current	<5mA	Safety standard	EN 61347-1/-2 EN 62493
Output current	1CH,8A	Standby current	<10μA		
Output power	40W/96W/192W/288W (5V/12V/24V/36V)	Standby time	1 year	Radio Equipment	ETSI EN 300 440
Output type	Constant voltage	Remote distance	30m(Barrier-free space)	Certification	CE RoHS FCC
Dimming data		**Warranty and Protection**		**Environment**	
Dimming level	4096 (2^12) levels	Warranty	5 years	Operation temperature	Ta: -30°C ~ +55°C
Dimming range	0 - 100%	Protection	Reverse polarity Over-heat Over-load Short circuit	Case temperature (Max.)	Tc: +85°C
Dimming curve	Logarithmic			IP rating	IP20
PWM Frequency	2000Hz (default)				

Mechanical Structures and Installations

LED indicator
Push switch com
Push switch in
Installation rack
Match key

LED output -
LED output +
Power input -
Power input +
Installation rack

53.00 mm
122.00 mm
17.50 mm

33mm
97mm
18mm

3VDC
(AAAx2) Battery

Key Function

⏻ : Turn on/off light.

◕ : Touch to change brightness.

❄ ❄ : Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.
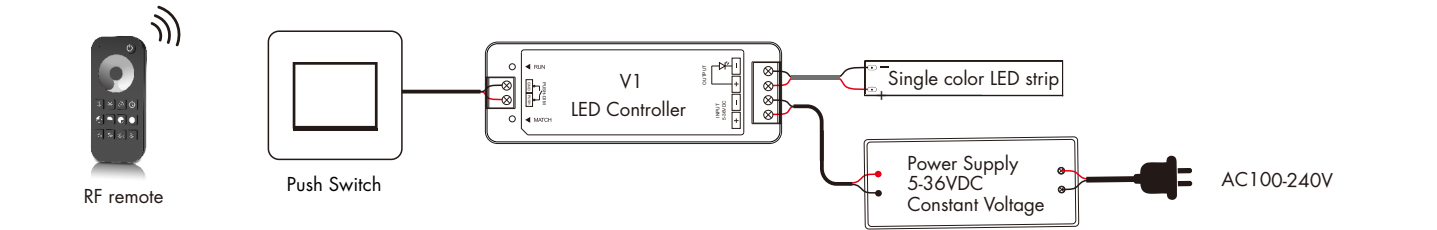
☾ : Small night brightness (10%).

⏻ : Turn off light after 30s, long press 2s will turn off light after 60s.

◔ ◑ ◕ ● : 25%, 50%, 75%,100% brightness.

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

Wiring Diagram

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,
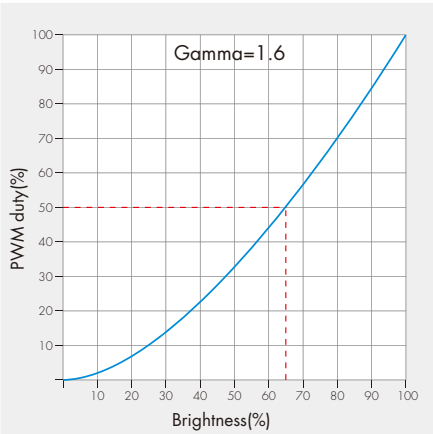immediately press on/off key of the remote.

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.

Dimming Curve

Light on/off Fade Time

Long press match key 5s, then short press match key 3 times,
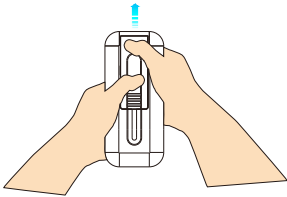the light on/off time will be set to 3s, the indicator light blink 3 times.

Long press match key 10s, restore factory default parameter,
the light on/off time also restore to 0.5s.

Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. Nopower . 2. Wrongconnection or insecure .	1. Check the power. 2. Check the connection.
Uneven intensity between front and rear,with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.

Safety Information

1. Read all instructions carefully before you begin this installation.
2. When installing battery, pay attention to the battery positive and negative polarity.
   A long time without the remote control, remove the battery.
   When remote distance becomes smaller and insensitive, replace the battery.
3. If no response from the receiver, please re-match the remote.
4. Gently handle remote, beware of falling.
5. For indoor and dry location use only.

When replacing the batteries,
use both hands to remove the back cover of the remote control.

Statement