

Ultrathin Touch Wheel RF Remote Controller

Model No.: R6/R6-1

1 and 4 zone dimming/Touch brightness wheel/Wireless remote 30m distance/CR2032 battery



R6
4 Zone Dimming



R6-1
1 Zone Dimming

CE RoHS EMC LVD RED

Features

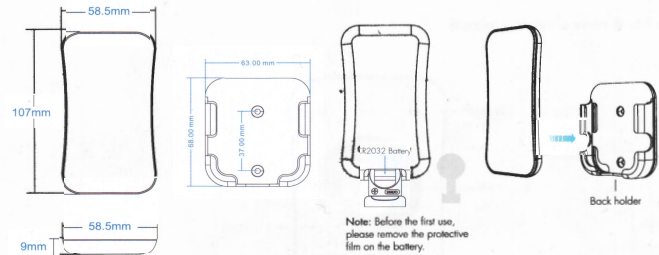
- Apply to single color LED controller.
- Ultra sensitive color adjustment touch wheel.
- Each remote can match one or more receiver.
- CR2032 battery powered.
- Operate with LED indicator light.

Technical Parameters

Input and Output	
Output signal	RF(2.4GHz)
Working voltage	3VDC(CR2032)
Working current	< 5mA
Standby current	< 10μA
Standby time	1 year
Remote distance	30m[Barrier-free space]
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

Safety and EMC	
EMC standard (EMC)	EN301 489 EN 62479
Safety standard(LVD)	EN60950
Radio Equipment(REDE)	EN300 328
Certification	CE EMC, LVD, RED
Warranty	
Warranty	5 years
Weight	
Net weight	0.037kg
Gross weight	0.062kg

Mechanical Structures and Installations



- To fix the remote, two options are offered for selection:
- Option 1: fix the remote' back holder on the wall with two screws.
 - Option 2: adhere the remote' back holder to the wall with pasteur.

Operation

- When light is on, touch the color wheel, the indicator will display red.
- To extend battery life, no touch or press key operation after a few seconds, the touch wheel will enter sleep state, you need press any key to make touch wheel quit sleep state.

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 (single zone remote) or zone key (multiple zone remote) on the remote.

The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means: all matched remotes were deleted.

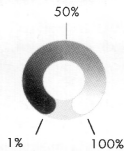
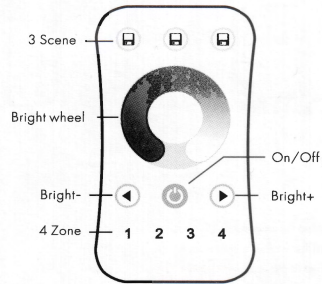
Use Power Restart

Match:
Switch off the power, then switch on power 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 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.

Key function

• R6 4 zone dimming remote



On/Off: Short press turn on/off all zone light.

1,2,3,4 zone: Short press select and turn on zone light, long press 2s turn off zone light. Short press multiple zone key fastly, will synchronous select multiple zone synchronously.

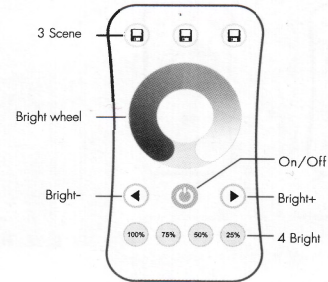
Bright wheel: Touch to change current zone brightness.

Bright+/-: Adjust brightness for current selected zone, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

3 Scene: Short press recall the scene, long press 2s save the current state into the scene. the LED indicator will light up longer when save OK.

4 zone recall or save synchronously.

• R6-1 1 zone dimming remote



On/Off: Turn on/off light.

Bright wheel: Touch to change brightness.

Bright+/-: Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment. 100%,75%,50%,25%. Get 4 kinds brightness directly.

3 Scene: Brightness memory.

Short press recall the scene, long press 2s save the current brightness into the scene. the LED indicator will light up longer when save OK.

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.

Single Color LED Controller

Model No.: V1

1 Channel/Stepless dimming/Wireless remote control/Auto-transmitting/Synchronize/Push Dim/Multiple protection



Features

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with Skydance's 2.4G single zone or multiple zone dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Over-heat / Over-load / Short circuit protection, recover automatically.

FC CE RoHS RECYCLED RED

Technical Parameters

Input and Output

Input voltage	5-36VDC
Input current	8.5A
Output voltage	5-36VDC
Output current	1CH, 8A
Output power	40W/96W/192W/288W (5V/12V/24V/36V)
Output type	Constant voltage

Dimming data

Input signal	RF 2.4GHz + Push Dim
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	500Hz (default)

Safety and EMC

EMC standard (EMC)	EN301 489, EN 62479
Safety standard(LVD)	EN60950
Radio Equipment(RED)	EN300 328
Certification	CE, EMC, LVD, RED

Environment

Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

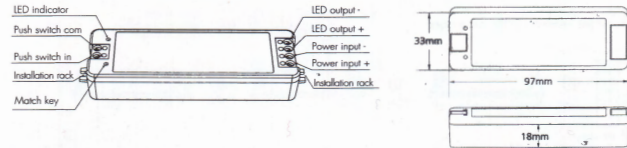
Warranty and Protection

Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

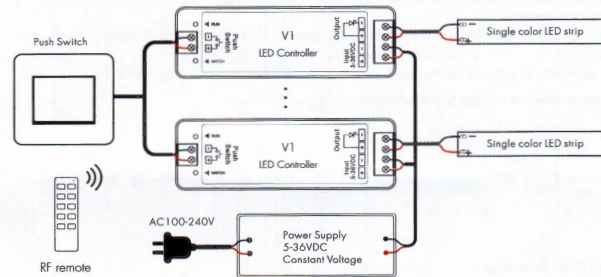
Weight

Net weight	0.041kg
Gross weight	0.052kg

Mechanical Structures and Installations



Wiring Diagram



Match Remote Control (two match ways)

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

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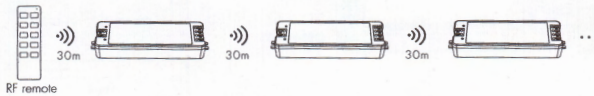
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Application notes

1. All the receivers in the same zone.



Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be limitless.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

2. Each receiver(one or more) in a different zone, like zone 1, 2, 3 or 4.

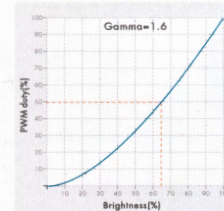


Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-tatching (momentary) wall switches.

- **Short press:**
Turn on or off light.
- **Long press (1-6s):**
Press and hold to step-less dimming,
With every other long press, the light level goes to the opposite direction.
- **Dimming memory:**
Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:**
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.

Dimming Curve



Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection 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.