

SKYDANCE V3-W RGB LED Mini RF Controller User Manual

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SKYDANCE

V3-W RGB LED Mini RF Controller



Product Information: RGB LED Mini RF Controller

• Model No.: V3-W

• 3 channel constant voltage/Max 75W/Step-less dimming/Wireless remote control

Input voltage: 12-24VDCOutput voltage: 12-24VDCOutput power: Max. 75W

• Output type: Constant voltage

Control distance: 30m (Barrier-free space)
Dimming data Input signal: RF 2.4GHz
Dimming gray scale: 4096 (2^12) levels

• Dimming range: 0-100%

• Dimming curve: Logarithmic

• PWM Frequency: 500Hz (default)

• Operation temperature: Ta: -30°C ~ +55°C

• Case temperature (Max.): Tc: +85°C

• IP rating: IP20

Warranty: 5 years

· Protection: Reverse Polarity

· Certification: CE, EMC, LVD, RED

Product Usage Instructions

- 1. Connect the V+ and V- input to the power supply.
- 2. Connect the RGB LED strip to the output terminals of the controller.
- 3. Turn on the power supply.
- 4. Match the remote control to the controller. To match, switch off the power of the receiver, 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.
- 5. Select the desired color, mode, and dimming level using the wireless remote control.

- 6. To delete a matched remote, switch off the power of the receiver, 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.
- 7. The controller supports various dynamic modes including RGB jump, RGB smooth, 6 color jump, 6 color smooth, yellow cyan purple smooth, RGB fade in and out, red fade in and out, green fade in and out, blue fade in and out, and white fade in and out. Select the desired mode using the remote control.
- 8. The controller also supports step-less dimming with a logarithmic dimming curve. Adjust the brightness using the remote control.

RGB LED Mini RF Controller

Model No.: V3-W

3 channel constant voltage/Max 75W/Step-less dimming/Wireless remote control



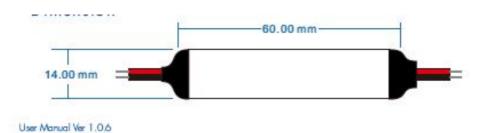
Model List

Model	Photo	Power Connector	IED Connector
V3-W	Figure Van FOOLED FF Container 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Red/Black Cable 10cm	4-calar Flat Cable 1 0cm
V3-W(CJ)	Typed Van Foot LED FF Cestion for 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Red/Black Cable 10cm	4-pin Flat Fernale Jack
V3-W(DJ)	17944 Valve Food Lab PF Certain In R I I I I I I I I I I I I I I I I I	5.5mm DC Female Jack	4-pin Flat Female Jack

Features

- 3 channel constant voltage RGB LED mini RF controller.
- 1A per channel, output connect with 5 meters RGB LED strip, max output power 75W.
- Match with RF 2.4G single zone or multiple zone RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Built in 10 dynamic mode, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control
 distance.
- Synchronize on multiple number of controllers.

Dimension

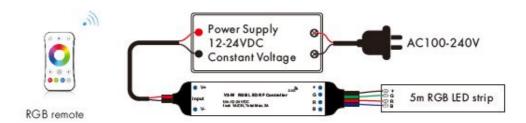


Technical Parameters

Input and Output	
Inputvoltage	12-24VDC
Output voltage	12-24VDC
Output power	Max. 75W
Output type	Constant voltage
Environ ment	
Operation temperature	Ta:-30°C~+55°C
Case temperature (Max.)	Tc:+85°C
Profing	IP20
Warranty and Protecti	on
Warranty	5 years
Protection	Reverse Polarity

Dimming data	9
Input signal	RF 2.4GHz
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)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(IVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Wiring Diagram



Match Remote Control

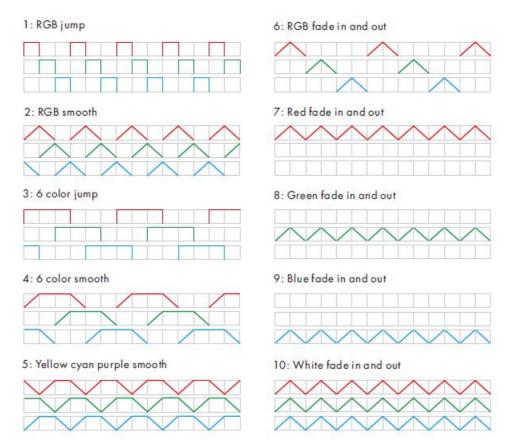
Match:

Switch off the power of the receiver, 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.

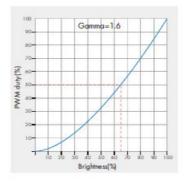
Delete:

Switch off the power of the receiver, 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.

RGB Dynamic mode list



Dimming curve



Application notes



All the receivers in the same zone.

RF remote

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, under same dynamic mode and with same speed. 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 than15m.

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



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting	
No light	No power. Wrong connection or insecure.	Check the power. Check the connection.	
Wrong color	1. Wrong connection of R/G/B wires.	1. Reconnect R/G/B wires	
No response from the remote	The battery has no power. Beyond controllable distance. The controller did not match the remote.	Replace battery. Reduce remote distance. Rematch the remote.	

User Manual Ver 1.0.6

Documents / Resources



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Manuals+,