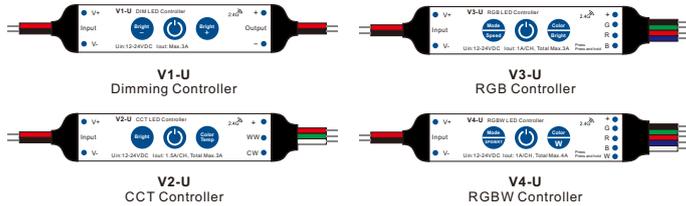


DIM/CCT/RGB/RGBW 1-4 Channel Mini LED Controller

Model No.: V1-U, V2-U, V3-U, V4-U

1-4 color/3-key/Max 75W/Stepless dimming/Wireless remote control



FC CE RoHS LVD RED

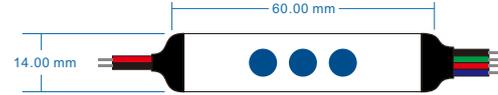
Features

- 1-4 channel constant voltage mini LED controller with 3 key.
- Output connect with 5 meters LED strip, max output power 75W.
- Match with Skydance's 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- When using with RGB/RGBW light, 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.

Technical Parameters

Input and Output		Dimming data	
Input voltage	12-24VDC	Input signal	RF 2.4GHz + 3 key
Output voltage	12-24VDC	Control distance	30m
Output power	Max. 75W	Dimming level	4096 levels
Output type	Constant voltage	Dimming range	0 - 100%
Environment		Dimming curve	Logarithmic
Operation temperature	Ta: -30°C ~ +55°C	PWM Frequency	500Hz (default)
Case temperature (Max.)	Tc: +85°C	Safety and EMC	
IP rating	IP20	EMC standard (EMC)	EN301 489, EN 62479
Warranty and Protection		Safety standard(LVD)	EN60950
Warranty	5 years	Radio Equipment(RED)	EN300 328
Protection	Reverse Polarity	Certification	CE, EMC, LVD, RED

Dimension

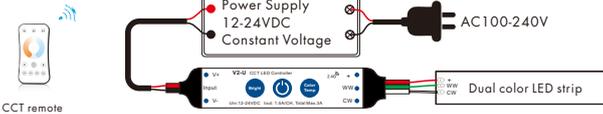


Wiring Diagram

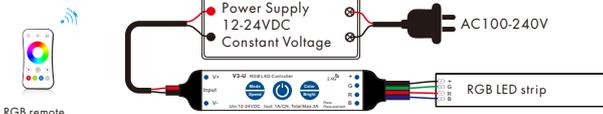
• V1-U for single color



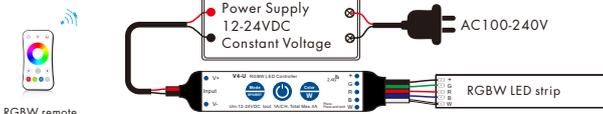
• V2-U for dual color



• V3-U for RGB



• V4-U for RGBW



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 Power key

Match:

Long press power key 2s, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:

Press and hold power key for 10s 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 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.

Application notes

1. 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 (V4-U without auto-synchronization function). 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 1.5m.

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



RGB/RGBW 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

Dual color control

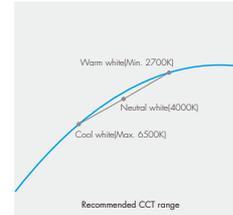
CH1=Warm white LED

CH2=Cool white LED

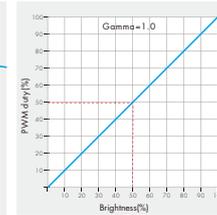
Each channel can supply up to 75W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=75W	CH1=37W,CH2=37W	CH1=75W,CH2=0W

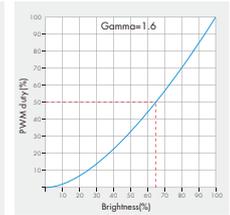
Linear dual color tuning



Dimming curve for CCT



Dimming curve for RGB/RGBW/DIM



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of R/G/B/W wires.	1. Reconnect R/G/B/W wires.
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. Rematch the remote.