# **Dual Color LED Controller**

# Model No.: V2-L



2 Channel/Step-less dimming/Wireless remote control/Auto-transmitting/Synchronize/Push Dim/Multiple protection



C C€ RoHS emc LVD RED

### **Feature**

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with all Skydance's 2.4G single zone or multiple zone dual color or single color 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-load / Short circuit protection, recover automatically.

### Technical Parameters

Input and Output			
Input voltage	12-36VDC		
Input current	16.5A		
Output voltage	2x(12-36)VDC		
Output current	2CH,8A/CH		
Output power	2×(96-288)W		
Output type	Constant voltage		

Dimming data			
Input signal	RF 2.4GHz + Push Dim		
Control distance	30m		
Dimming level	4096 levels		
Dimming range	0 - 100%		
Dimming curve	Linear		
PVVM Frequency	2KHz (default)		

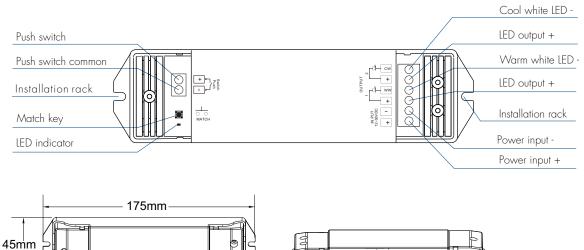
Safety and EMC		
EMC standard (EMC)	EN301 489,EN 62479	
Safety standard(LVD)	EN60950	
Safety standard(LVD)	andard(LVD) EN300 328	
Certification	CE,EMC,LVD,RED	

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

Warranty and Protection			
Warranty	5 years		
Protection	Reverse Polarity Over-load Short circuit		

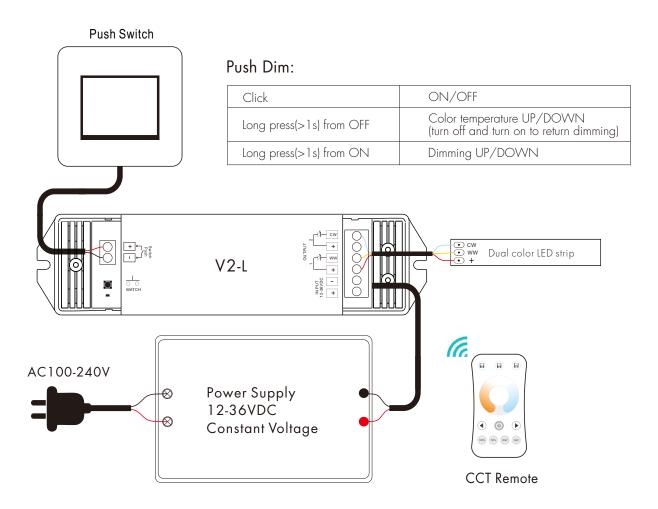
# Mechanical Structures and Installations

160mm



27mm

# 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 (single zone remote) or zone key (multiple zone remote) 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:

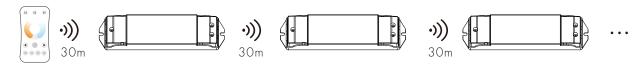
Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

#### 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.

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 with Synchronization

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

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.

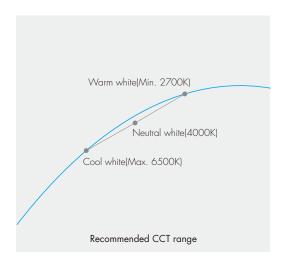
## Dual color control

CH1=Warm white LED CH2=Cool white LED

Each channel can supply up to 192W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=192W	CH1=96W,CH2=96W	CH1=192W,CH2=0W

## Linear dual color tuning



### Dimming curve

