# ARTISTIC LIGHTING



## RGB/CCT/Dimming 3 Channel LED RF Controller

## Model No.: V3

3 Channels/Step-less dimming/Wireless remote control/Auto-transmitting/Synchronize



## Features



- Match with RF 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 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.
- Light on/off fade time 3s selectable.

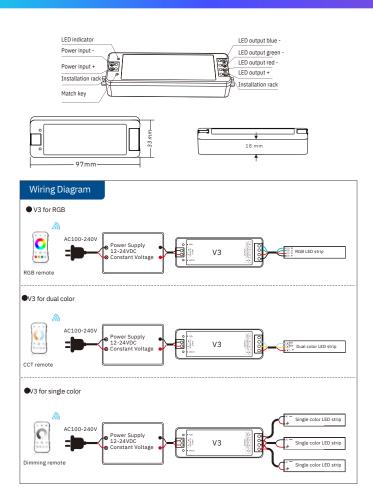
## **Technical Parameters**

Input and Output	
Input voltage	12-24VDC
Input current	12.5A
Output voltage	3 x (12-24)VDC
Output current	3CH,4A/CH
Output power	144-288W(12-24V)
Output type	Constant voltage

Environment	
Elivirollillelit	
Operation temperature	Ta: -300C ~ +550C
Case temperature (Max.)	<b>₹8</b> 50C
IP rating	IP20
Case temperature (Max.)	¥850C

Warranty and Protection		
Warranty	5 years	
Protection	Reverse polarity Short circuit	

Dimmingdata	
Input signal	RF 2.4GHz
C o n trol distance	30m (Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0 -100%
Dimming curve	Logarithmic
PWM Frequency	1000Hz (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(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2 CE,EMC,LVD,RED
Certification	
Weight	
Net weight	0.038 kg
Gross weight	0.049 kg



## 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 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.

## 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 extended.

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 than 15m.

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



## 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.

## RGB 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

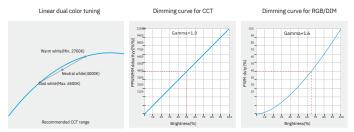
## Dual color control

CH1=Warm white LED

CH2=Cool white LED

Each channel can supply up to 96W(@24V) and white balance can be controlled as such:

Color temperatureCool whit	eNeutral whiteWarm white	
Power distribution C	H1=0W,CH2=96WCH1=48W,CH	2=48WCH1=96W,CH2=0W



## 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.
Uneven intensity between front and rear,with voltage drop	Output cable is too long. Wire diameter is too small. Overload beyond power supply capability. Overload beyond controller capability. The battery has no power.	Reduce cable or loop supply. Change wider wire. Replace higher power supply. Add power repeater.
No response from the remote	Beyond controllable distance. The controller did not match the remote.	Replace battery. Reduce remote distance. Re-match the remote.