RGB/CCT/Dimming 3 Channel LED RF Controller

Model No.: V3-X

3 Channels/10A per channel/Step-less dimming/Wireless remote control/Auto-transmitting/Synchronize

FC Ⓒ CE RoHS emc LVD RED

Features

● Match with 2.4G single color, dual color and RGB/RGBW remote control.

● One RF controller accept up to 10 remote control.

● When using with RGB light, built in 10 dynamic mode, include jump or gradual change style.

● Auto-transmitting function: Controller automaticly transmit signal to another controller with 30m control distance.

● Synchronize on multiple number of controllers.

Technical Parameters

Input and Output

Input voltage	12-36VDC
Input current	30.5A
Output voltage	3 x (12-36)VDC
Output current	3CH,10A/CH
Output power	360-1080W(12-36V)
Output type	Constant voltage

Dimming data

Input signal	RF 2.4GHz
Control distance	30m
Dimming level	4096 levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	750Hz

Environment

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

Safety and EMC

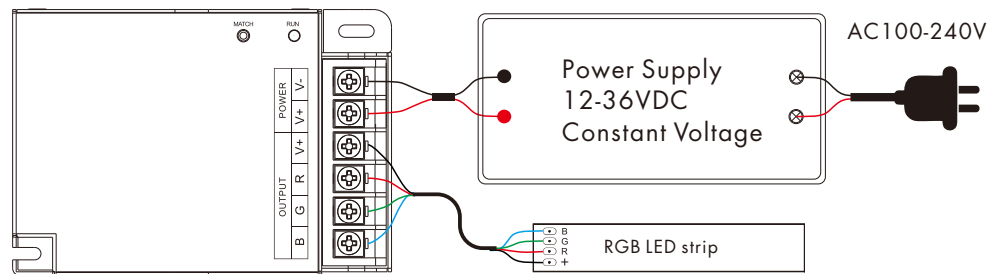|	
EMC standard (EMC)	EN301 489,EN 62479
Safety standard(LVD)	EN60950
Radio Equipment(RED)	EN300 328
Certification	CE,EMC,LVD,RED

Warranty and Protection

Warranty	5 years
Protection	Reverse Polarity

Mechanical Structures and Installations

LED indicator

Match key

Installation rack

Power input -
Power input +
LED output +
LED output red -
LED output green -
LED output blue -

107.00 mm
75.00 mm
24.50 mm
75.00 mm
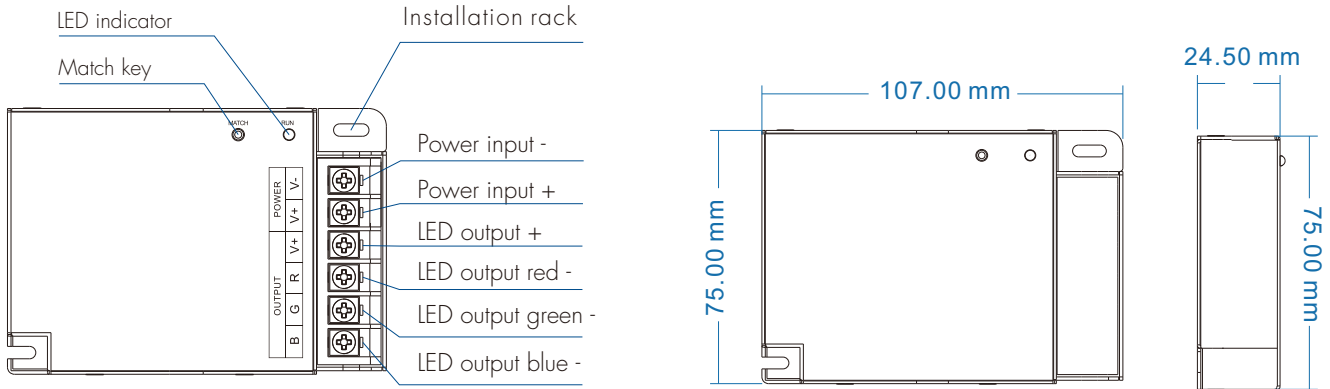
Wiring Diagram

● V3-X for RGB

RGB remote

Power Supply
12-36VDC
Constant Voltage

AC100-240V

RGB LED strip

● V3-X for dual color

CCT remote

Power Supply
12-36VDC
Constant Voltage

AC100-240V

Dual color LED strip
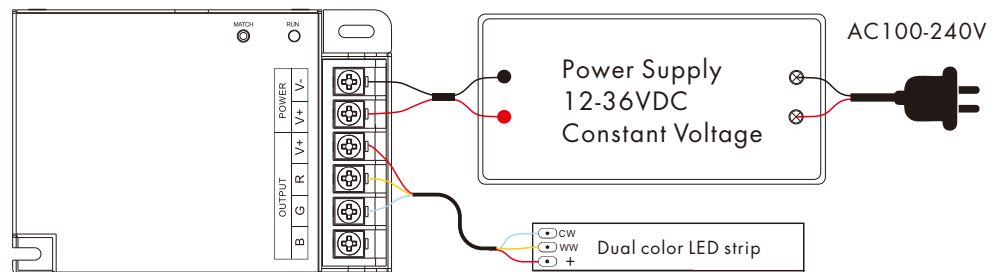
● V3-X for single color

Dimming remote
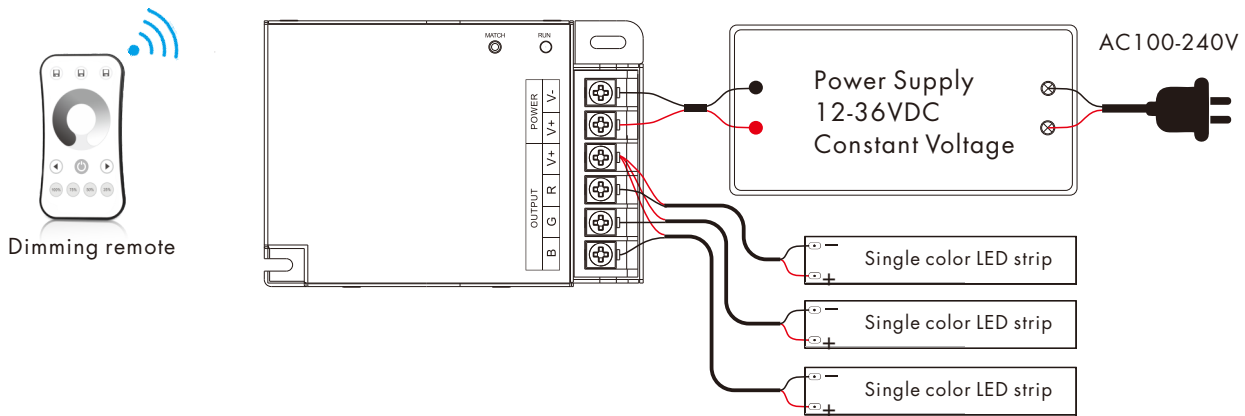
Match Remote Control (two match ways)

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.

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

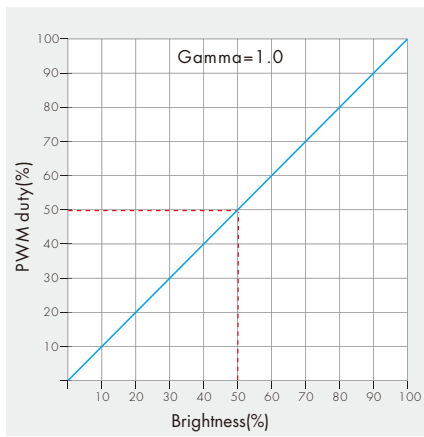# Dual color control

CH1=Warm white LED
CH2=Cool white LED
Each channel can supply up to 240W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=240W	CH1=120W,CH2=120W	CH1=240W,CH2=0W

Linear dual color tuning   Dimming curve for CCT   Dimming curve for RGB/DIM

Warm white(Min. 2700K)
Neutral white(4000K)
Cool white(Max. 6500K)
Recommended CCT range

Gamma=1.0

Gamma=1.6
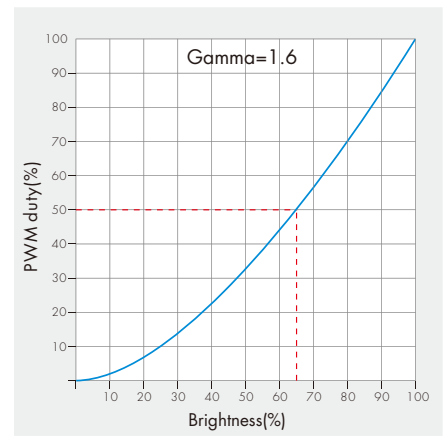
Malfunctions analysis & troubleshooting

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 wires.	1. Reconnect R/G/B wires.
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.