



## IEDYi Lighting V3-X Dimming 3 Channel LED RF Controller Instruction Manual

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**IEDYi Lighting V3-X Dimming 3 Channel LED RF Controller Instruction Manual**



**Model No.: V3-X**

FC  CE RoHS  LVD RED

## 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 15m control distance.
- Synchronize on multiple number of controllers.
- Light on/off fade time 3s selectable.

## 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

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

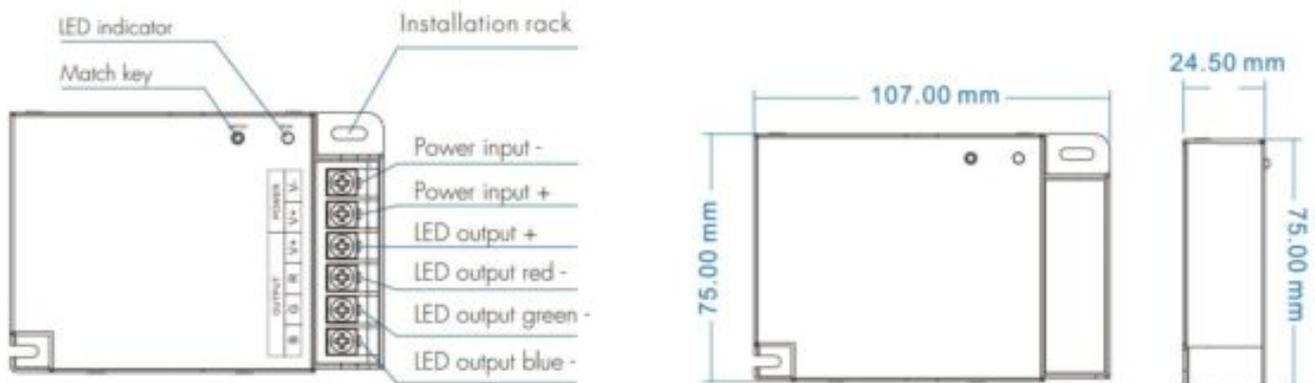
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

Dimming data	
Input signal	RF 2.4GHz
Control distance	15m[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
Certification	CE,EMC,LVD,RED

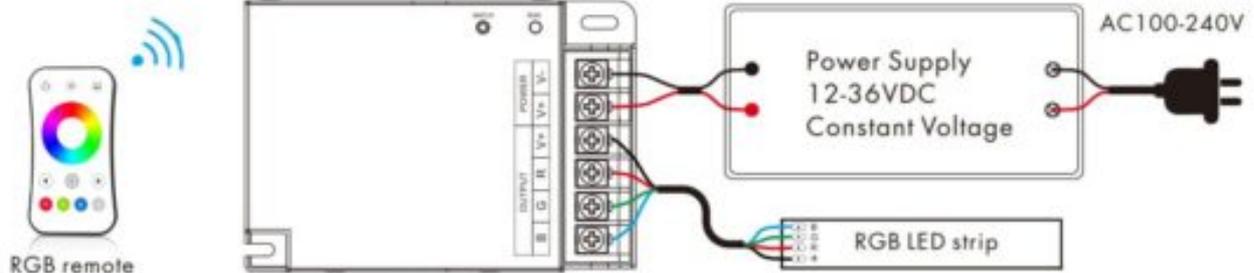
Weight	
Net weight	0.240kg
Gross weight	0.259kg

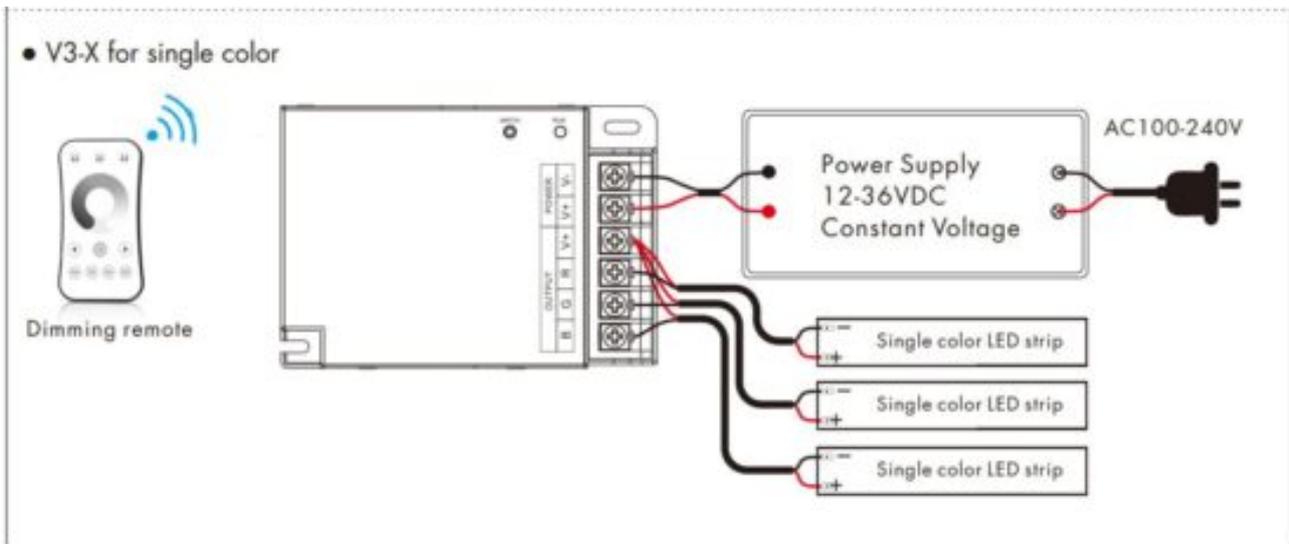
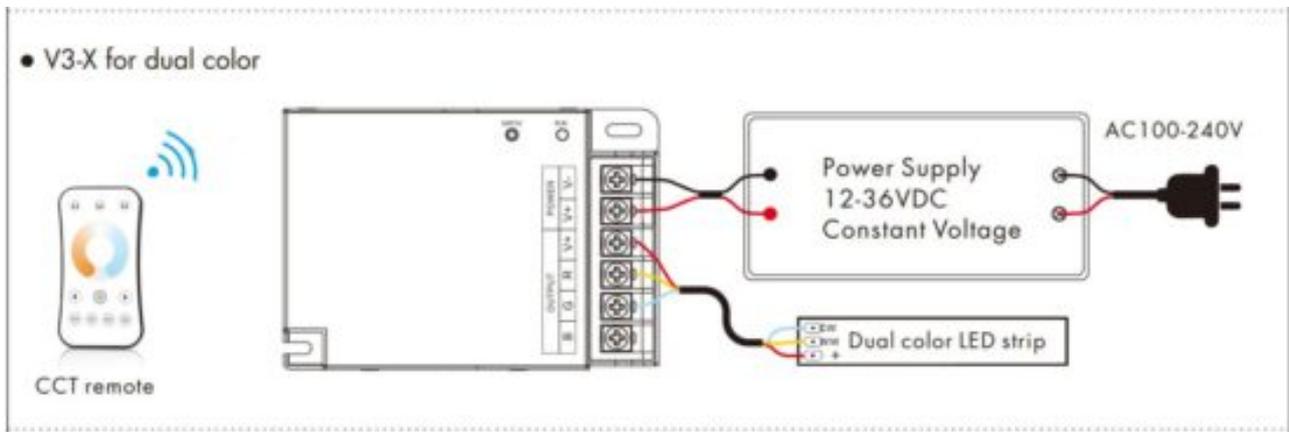
## Mechanical Structures and Installations



## Wiring Diagram

- V3-X for RGB





## 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.

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:

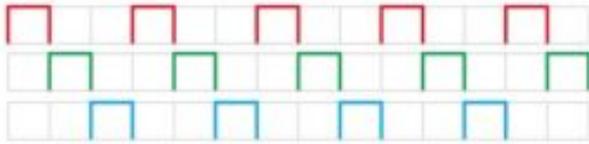
Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

#### Delete:

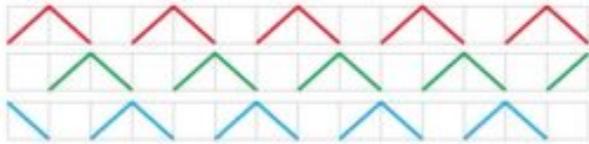
Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

## RGB Dynamic mode list

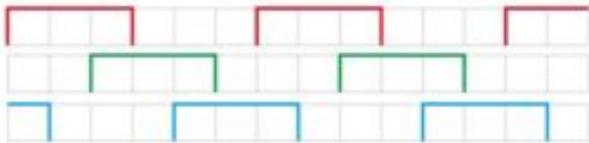
1: RGB jump



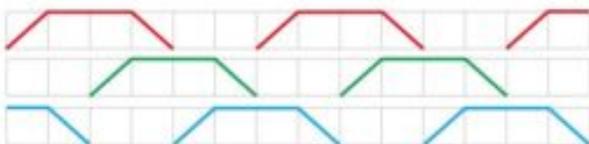
2: RGB smooth



3: 6 color jump



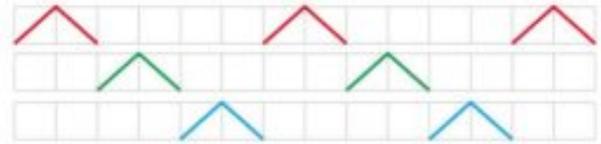
4: 6 color smooth



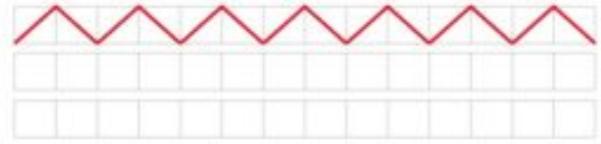
5: Yellow cyan purple smooth



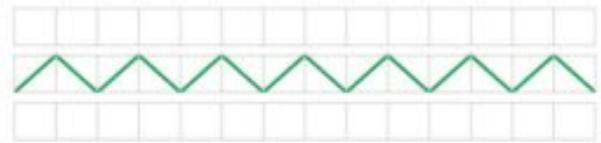
6: RGB fade in and out



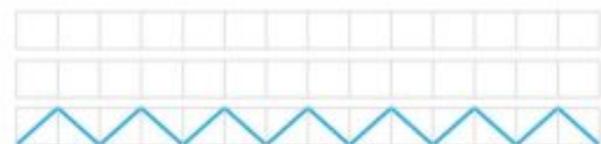
7: Red fade in and out



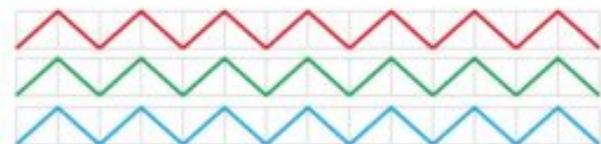
8: Green fade in and out



9: Blue fade in and out



10: White fade in and out



## Dual color control

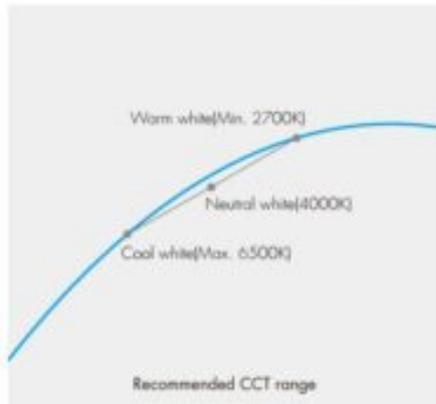
CH1=Warm white LED

CH2=Cool white LED

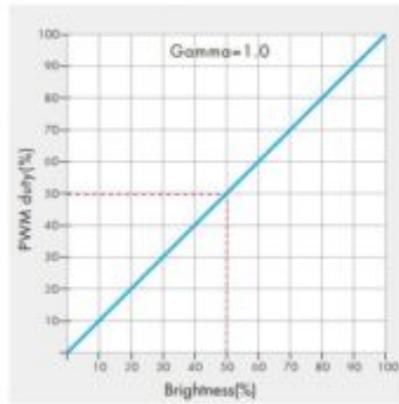
Each channel can supply up to 240W(@24V) and white balance can be controlled as such:

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

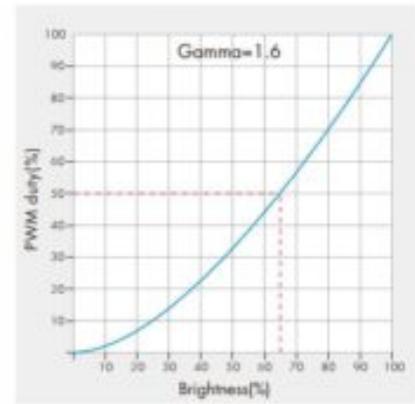
Linear dual color tuning



Dimming curve for CCT



Dimming curve for RGB/DIM



## 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.

## Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> <li>No power.</li> <li>Wrong connection or insecure.</li> </ol>	<ol style="list-style-type: none"> <li>Check the power.</li> <li>Check the connection.</li> </ol>
Wrong color	<ol style="list-style-type: none"> <li>Wrong connection of R/G/B wires.</li> </ol>	<ol style="list-style-type: none"> <li>Reconnect R/G/B wires.</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>Output cable is too long.</li> <li>Wire diameter is too small.</li> <li>Overload beyond power supply capability.</li> <li>Overload beyond controller capability.</li> </ol>	<ol style="list-style-type: none"> <li>Reduce cable or loop supply.</li> <li>Change wider wire.</li> <li>Replace higher power supply.</li> <li>Add power repeater.</li> </ol>
No response from the remote	<ol style="list-style-type: none"> <li>The battery has no power.</li> <li>Beyond controllable distance.</li> <li>The controller did not match the remote.</li> </ol>	<ol style="list-style-type: none"> <li>Replace battery.</li> <li>Reduce remote distance.</li> <li>Re-match the remote.</li> </ol>

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