

LCRGBSD-V3

3 Channel Constant Voltage Controller



Features

- Compatible with single colour/dual/RGB RF remotes (2.4G)
- One RF Controller can accept up to 10 remote controls
- 0-100% smooth dimming without flashing (4096 levels)
- 10 dynamic modes, including jump or gradual colour changing
- Auto-transmitting function: Controller will transmit signal to another within 30m unobstructed control distance

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	
Operation temperature	Ta:-30°C~ +55°C
Max case temperature	Tc:+85°C
IP rating	IP20

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Short circuit

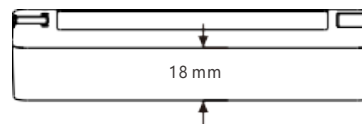
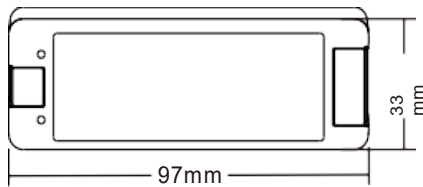
Dimming Data	
Input signal	RF 2.4GHz
Control distance	30m(Unobstructed)
Dimming gray scale	4096 (2 ¹²)levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM frequency	100Hz (default)

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(REDE)	CE,EMC,LVD
Certification	CE,EMC,LVD

Weight	
Net weight	0.038kg
Gross weight	0.049kg

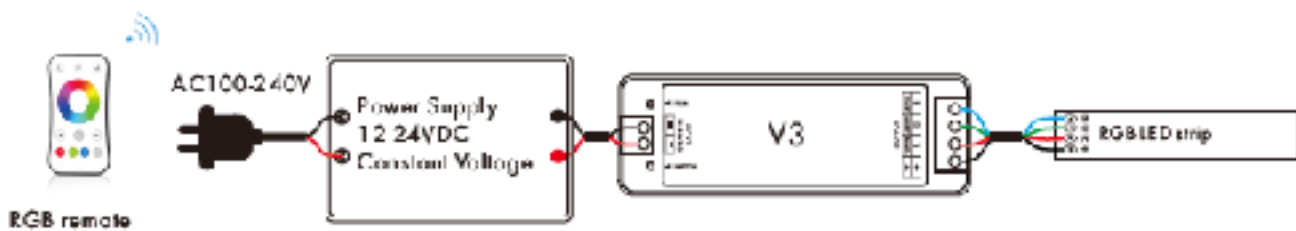
While every effort has been made to ensure the accuracy of all information provided Task Lighting can not be held responsible for any errors. Task Lighting also reserves the right to modify/delete product details without notice.

Mechanical Structures and Installations

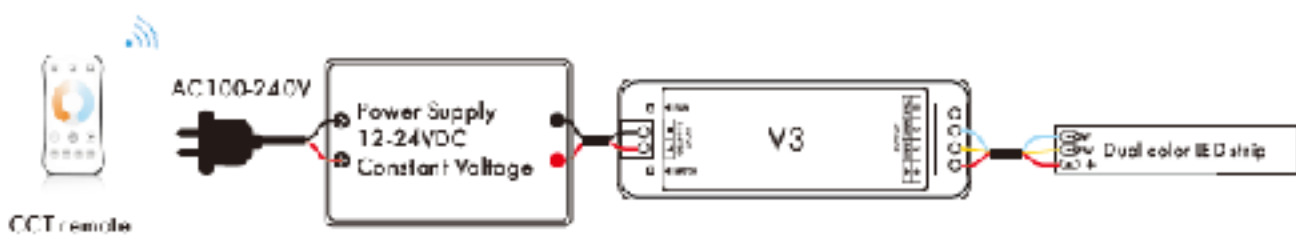


Wiring Diagram

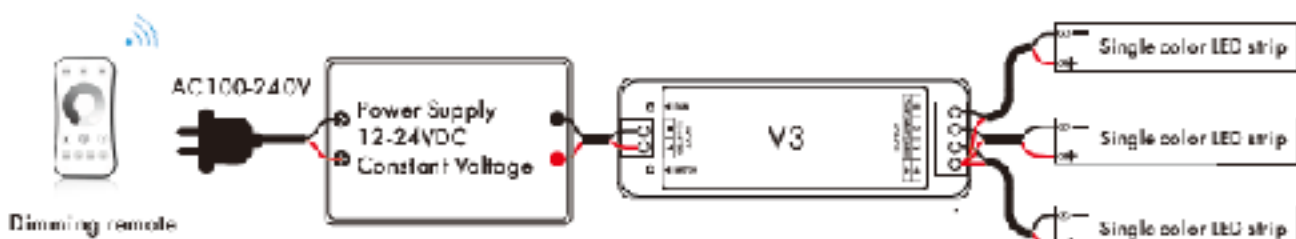
• V3 for RGB



• V3 for dual color



• V3 for single color



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Match to Remote Control

Below are two options to match to a remote or delete unwanted matches.

Use the controller's Match Key

Match:

Short press the match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:

Press and hold the match key for 5 seconds to delete all matches. The light blinking 5 times means all matched remotes were deleted.

Use Power Restart

Match:

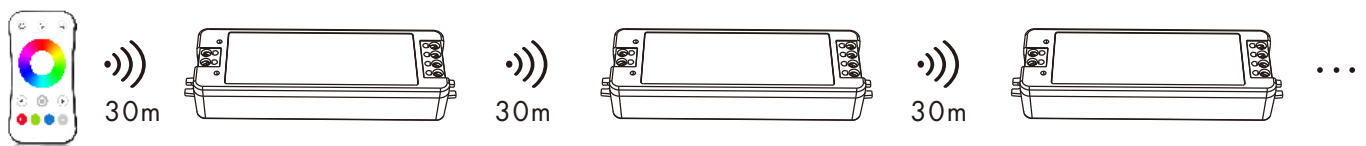
Switch the power off and on again, immediately short press the on/off key 3 times on the remote. The light will blink 3 times, to confirm the match is successful.

Delete:

Switch the power off and on again, immediately short press on/off key 5 times on the remote. The light blinking 5 times confirms all matched remotes were deleted.

Application Notes

All the receivers are matched with one RF remote.



RF remote

Auto-transmitting: One receiver can transmit the signal 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-synchronisation: Multiple receivers within 30m distance can work simultaneously when they are controlled by the same remote, under the same dynamic mode and with the same speed.

Receiver placement may offer up to a 30m communication distance. However, we recommend for indoor applications that receiver placements should be no further than 15m apart.

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



Light on/off fade time

Long press the match key for 5 seconds, then short press the match key 3 times, the light on/off light time will be set to 3 seconds, the light will blink 3 times.

Long press the match key for 10 seconds, restore factory default parameter, the light on/off time restores to 5 seconds.

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RGB Dynamic Mode List

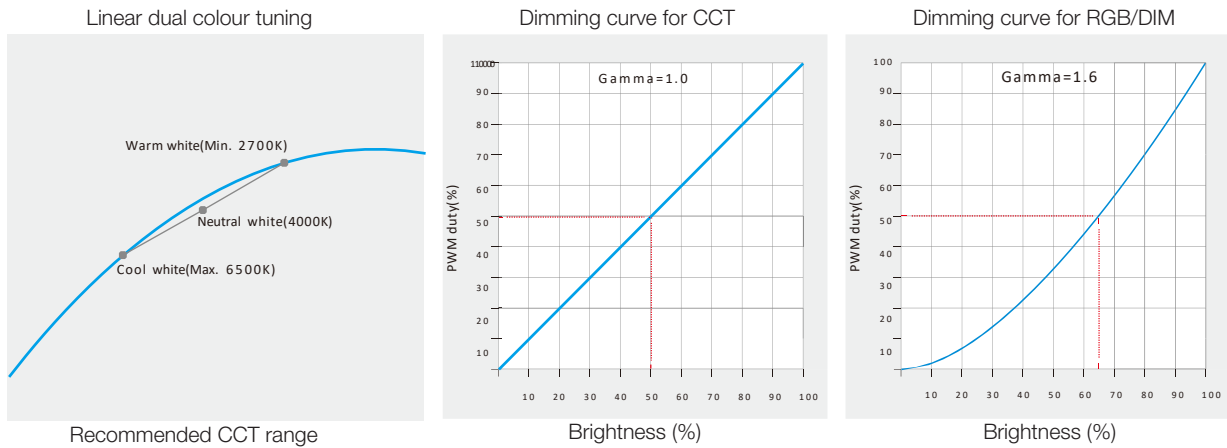
No.	Name.	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 colour jump	8	Green fade in and out
4	6 colour smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Dual Colour Control

CH1=Warm white LED CH2=Cool white LED

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

Colour temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0w, CH2=96W	CH1=48W, CH2=48w	CH1+96W, CH2=0W



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power 2. Wrong or insecure connection	1. Check the power 2. Check the connection
Wrong colour	1. Wrong connection of R/G/B/W wires 2. DMX decode address error	1. Reconnect R/G/B/W wires 2. Set correct decode address
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 to a wider wire 3. Replace with a higher power supply 4. Add a data repeater
No response from the remote	1. The battery has no power 2. Beyond controllable distance 3. Unsuccessful match with the remote	1. Replace the battery 2. Reduce remote distance 3. Re-match the remote

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