

LCDMSD-V1-L

Single Colour LED Controller



Features

- 0-100% smooth dimming without flashing
- Compatible with 2.4G single or multiple zone dimming remotes
- One RF controller accepts up to 10 remote controls
- Auto-transmitting function: Controller can automatically transmit a signal to another controller within 30m control distance (unobstructed)
- Ability to sync onto multiple controllers
- Ability to connect with an external push switch to achieve on/off and 0-100% dimming function
- Logarithmic or linear dimming curve selectable
- PWM frequency 250Hz, 500Hz, 2kHz or 8kHz selectable
- Over-heat / Over-load / Short circuit protection

Technical Parameters

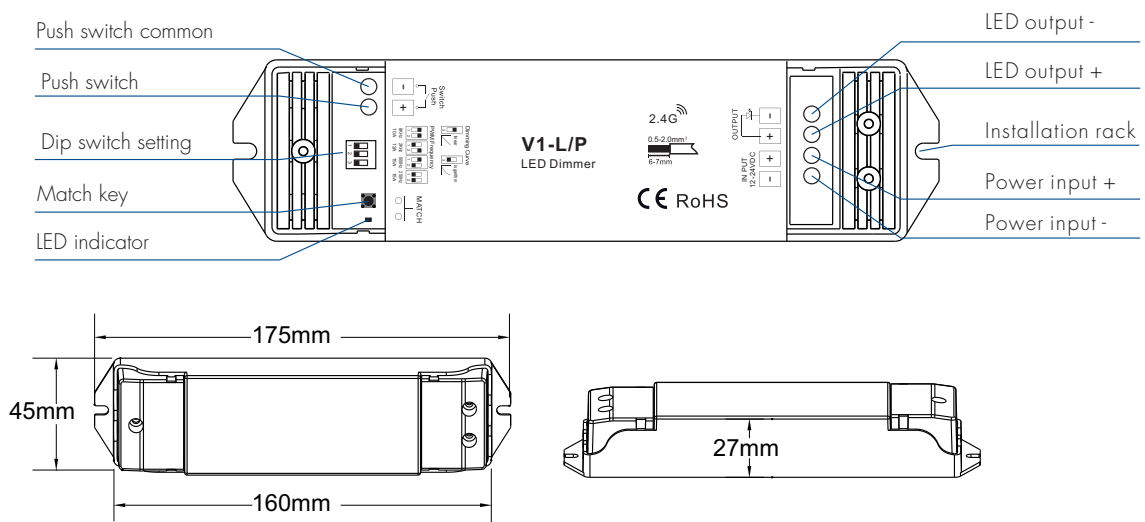
Input and Output	
Input voltage	12-48VDC
Output voltage	12-48VDC
Output current	15A@12/24V 10A@36/48V
Output power	180W@12V 360W@24V 360W@36V 480W@48V
Output type	Constant voltage
Dimming data	
Input signal	RF 2.4GHz + Push Dim
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0 - 100%
Dimming curve	Logarithmic or linear
PWM Frequency	250Hz, 500Hz, 2kHz, 8kHz

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

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

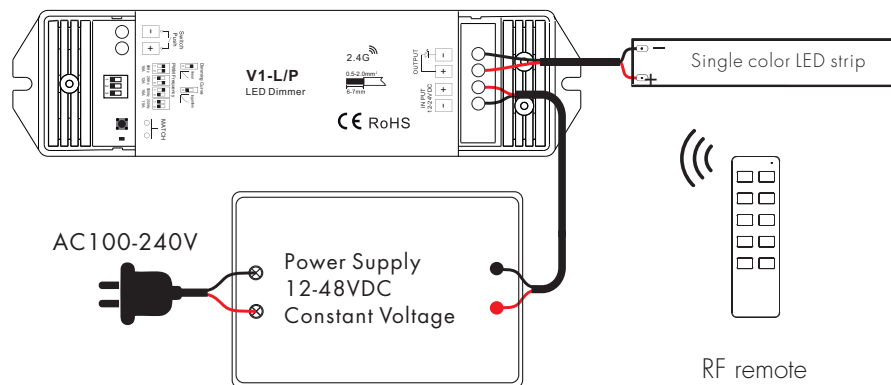
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

Mechanical Structures and Installations

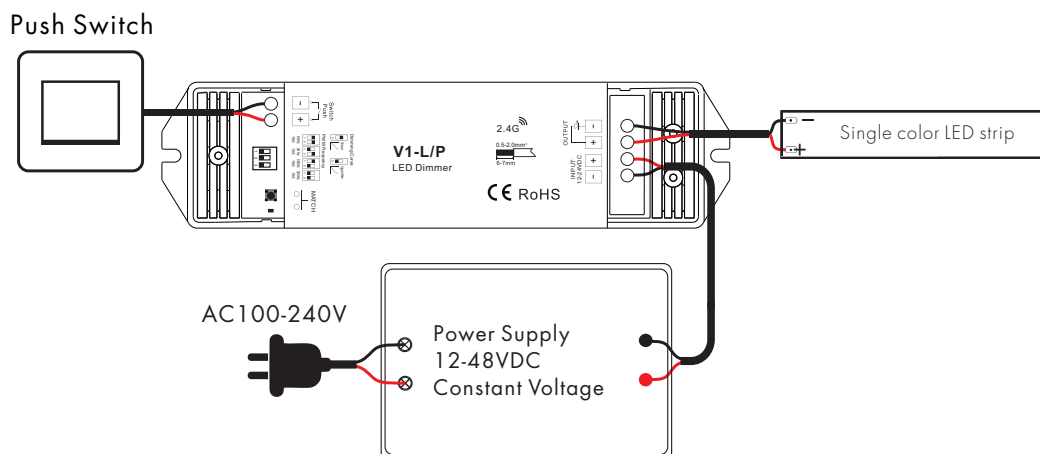


Wiring Diagram

Match with dimming remote



Connect with push switch



Match Remote Control

End user can choose between two suitable match/delete ways

USE THE CONTROLLER'S MATCH KEY

Match:

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

The LED indicator will flash a few times which means the match has been successful.

Delete:

Press and hold the match key for 5s to delete all current matches, the LED indicator will flash a few times which means all matched remotes were deleted.

USE POWER RESTART

Match:

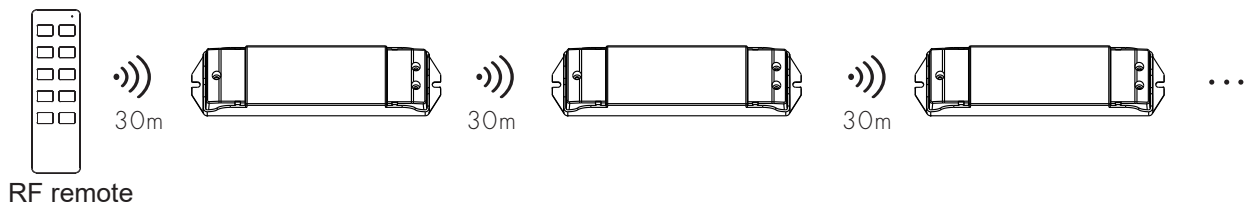
Switch off the power, then switch on again, immediately short press the on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light will blink 3 times which means the match was successful.

Delete:

Press and hold the match key for 5s to delete all current matches, the LED indicator will flash a few times which means all matched remotes were deleted.

Application Notes

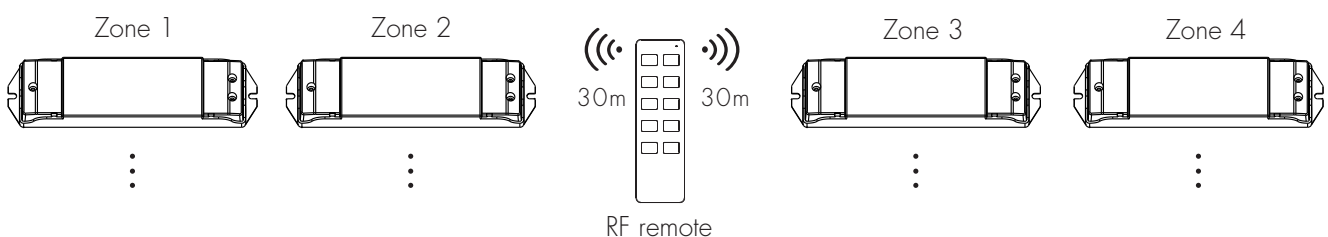
1. All the receivers in the same zone.



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-synchronization: Multiple receivers within 30m distance can work simultaneously 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.

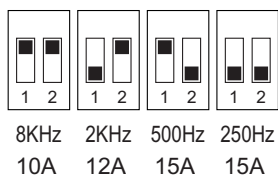


Push Dim Function

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

- **Short press:**
Turn on or off light.
- **Long press (1-6s):**
Press and hold to step-less dimming,
With every other long press, the light level goes to the opposite direction.
- **Dimming memory:**
Light returns to the previous dimming level when switched off and on again, even at power failure.
- **Synchronization:**
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.

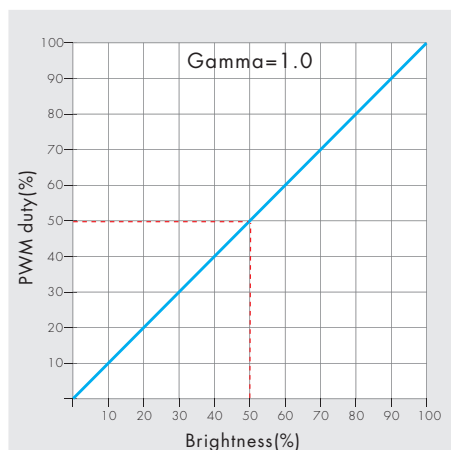
PWM Frequency Setting



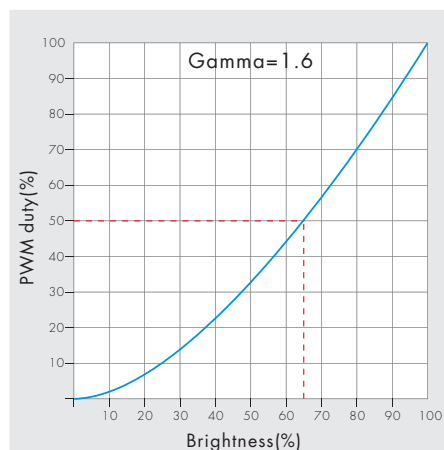
We can select four PWM frequency: 250Hz, 500Hz, 2kHz or 8kHz. Higher PWM frequency, will cause lower output current, higher power noise, which is more suitable for camera rather than video due to flickering.

Dimming Curve Setting

Linear dimming curve



Logarithmic dimming curve



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.