



LEDLyskilder V1-L/P Single Color LED Controller User Manual

[Home](#) » [LEDLyskilder](#) » LEDLyskilder V1-L/P Single Color LED Controller User Manual 

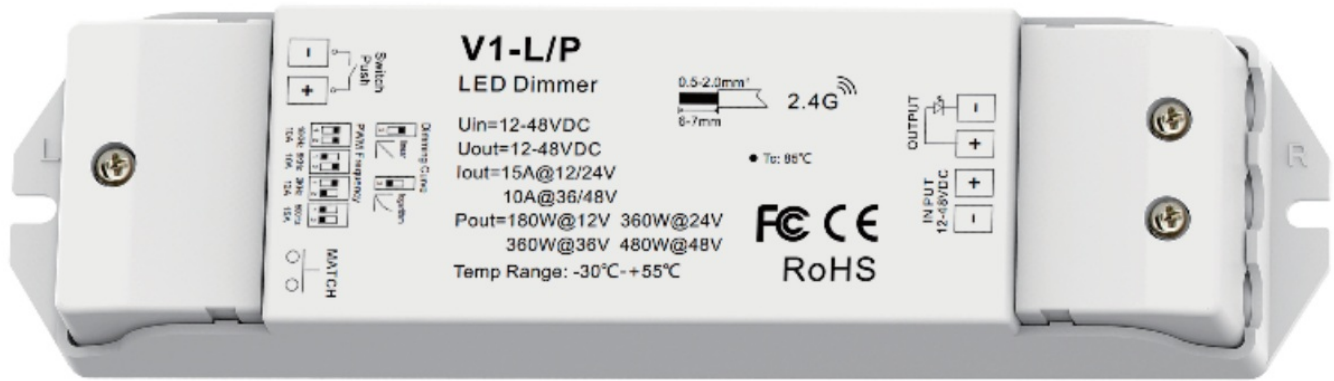


Contents

- [1 Single Color LED Controller](#)
- [2 Features](#)
- [3 Technical Parameters](#)
- [4 Mechanical Structures and Installations](#)
- [5 Wiring Diagram](#)
- [6 Application notes](#)
- [7 Push Dim Function](#)
- [8 Dimming curve setting](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)

Single Color LED Controller

1 Channel/Step-less dimming/Wireless remote control/Push Dim/Four PWM frequency/Linear or logarithmic dimming



Features

- 4096 levels 0-100% dimming smoothly without any
- Match with RF 2.4G single zone or multiple zones dimming remote control.
- One RF controller accepts up to 10 remote control.
- Auto-transmitting function: Controller automatically transmits a signal to another controller with a 30m control distance.
- Synchronize on multiple controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Logarithmic or linear dimming curve selectable.
- PWM frequency 500Hz, 2kHz, 8kHz or 16kHz selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.
- Light on/off fade time 3s selectable.

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 range	4096 (2 ¹²) levels
Dimming grayscale	0 -100%
Dimming curve	Logarithmic or linear
PWM Frequency	500Hz, 2kHz, 8kHz, 16kHz

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

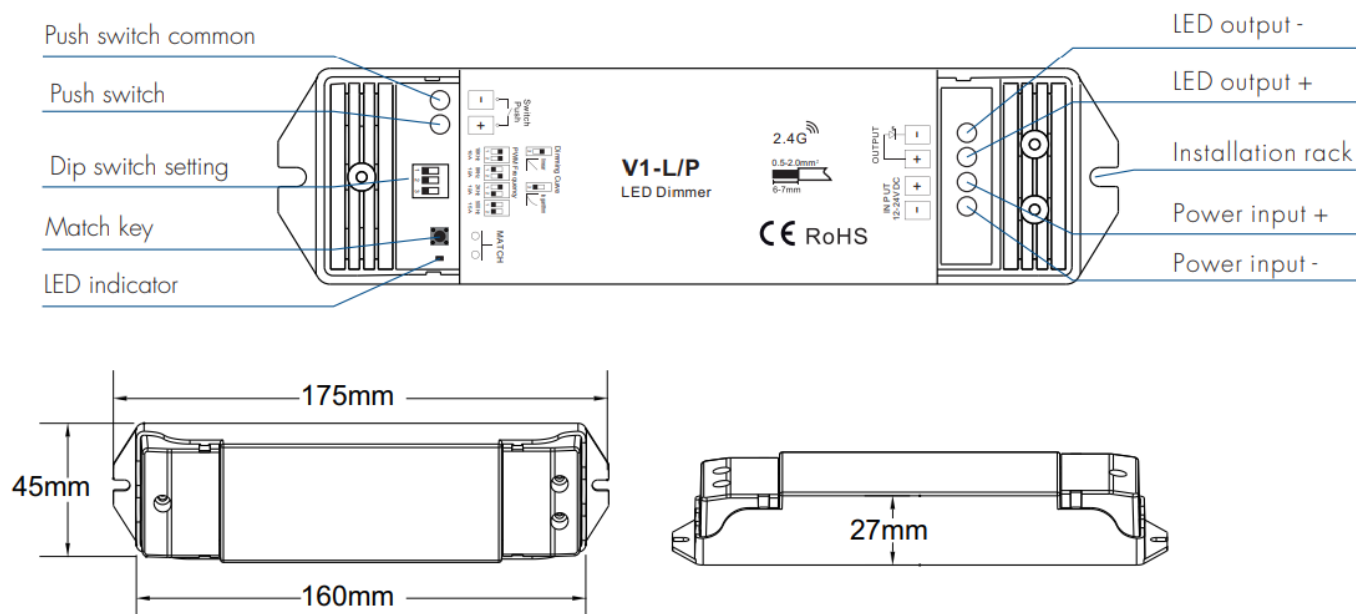
Environment

Operation temperature	Ta: -30O C ~ +55 O C
Case temperature (Max.)	T c: +85OC
IP rating	IP20

Warranty and Protection

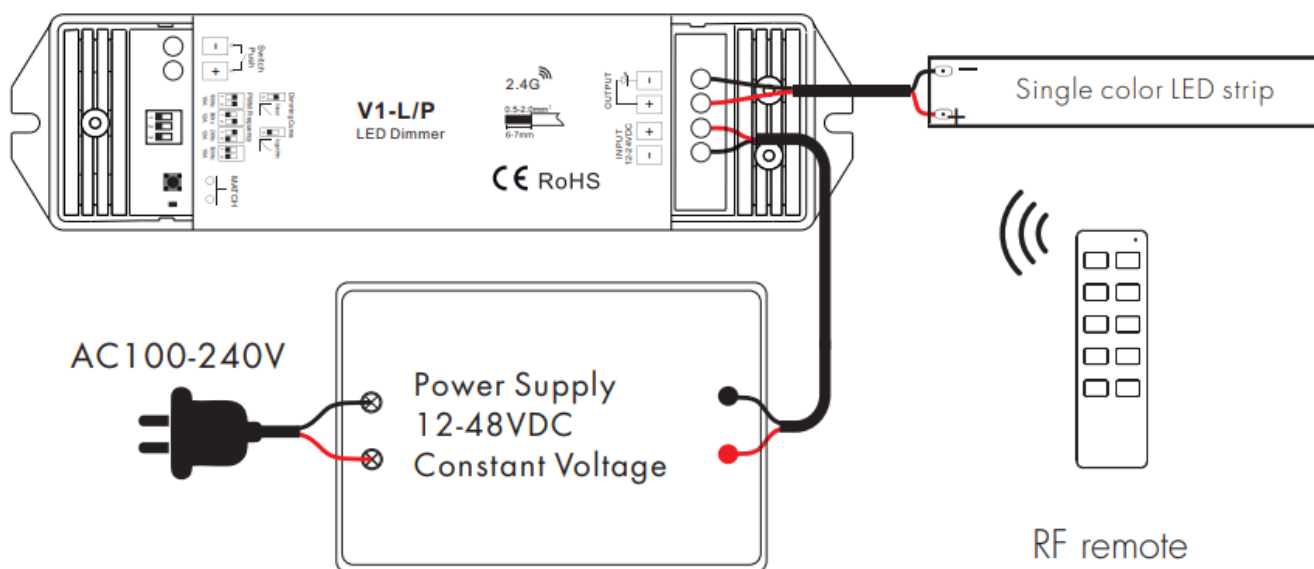
Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

Mechanical Structures and Installations



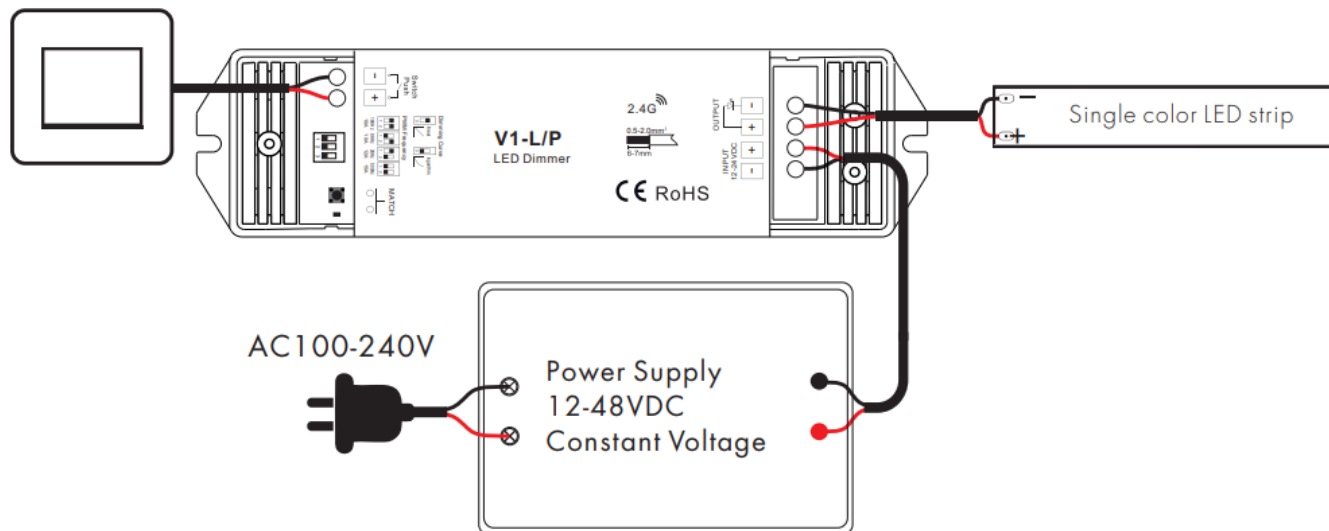
Wiring Diagram

Match with dimming remote



Connect with push switch

Push Switch



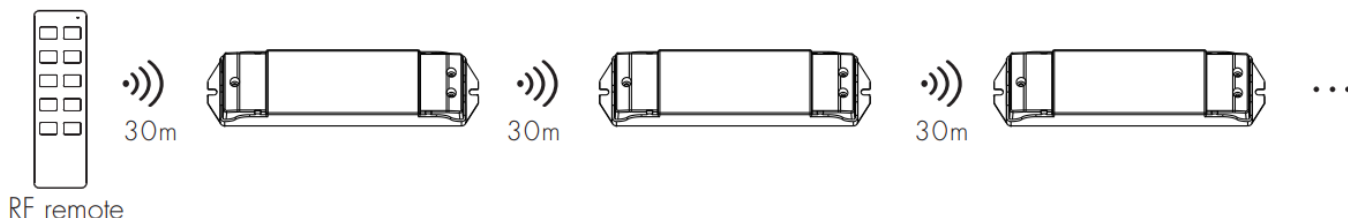
Match Remote Control (two match ways)

The end user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key	Use Power Restart
<p>Match: Short press match key, and immediately press the on/off key (single zone remote) or zone key (multiple zones remote) on the remote. The LED indicator fast flash a few times means the match is successful.</p> <p>Delete: Press and hold the match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.</p>	<p>Match: Switch off the power, then switch on the power, and repeat again. An immediately short press on/off key (single zone remote) or zone key (multiple zones remote) 3 times on the remote. The light blinks 3 times means the match is successful.</p> <p>Delete: Switch off the power, then switch on the power, and repeat again. An immediately short press on/off key (single zone remote) or zone key (multiple zones remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.</p>

Application notes

1. All the receivers in the same zone.



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.

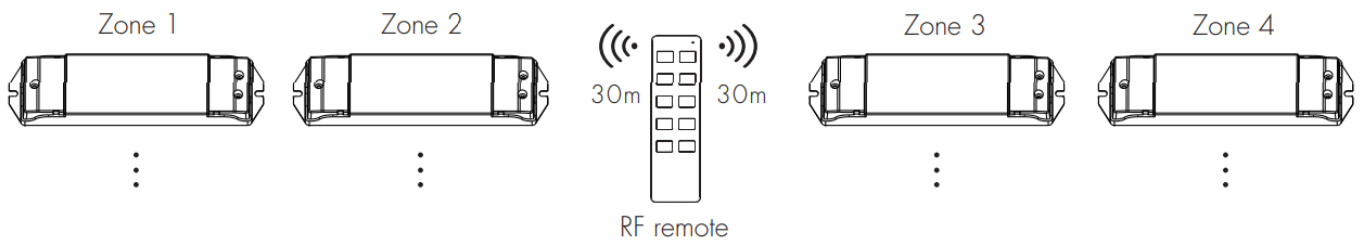
Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

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.

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 the controller should be no more than 20 meters.

PWM frequency setting

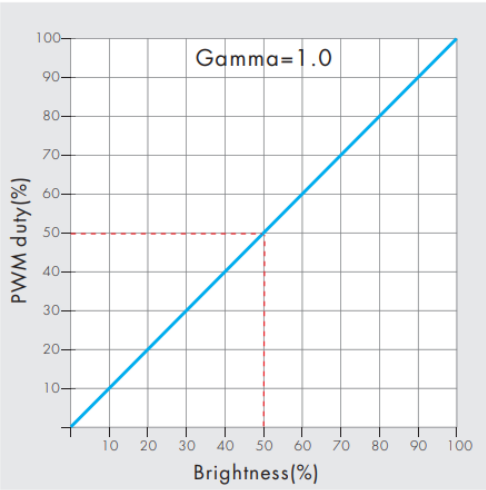


We can select four PWM frequencies: 500Hz, 2kHz, 8kHz, or 16kHz.

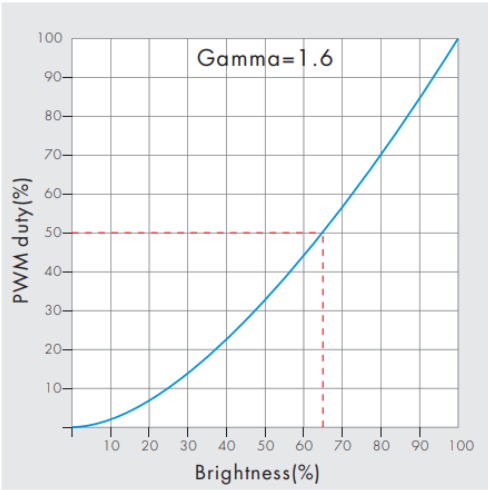
Higher PWM frequency will cause lower output current, and higher power noise, but more suitable for the camera(No flickers for video).

Dimming curve setting

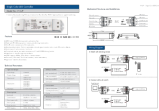
Linear dimming curve



Logarithmic dimming curve



Documents / Resources



[LEDLyskilder V1-L/P Single Color LED Controller](#) [pdf] User Manual
V1-L P, Single Color LED Controller, V1-L P Single Color LED Controller