



# iskydance V1-L Single Color LED Controller User Manual

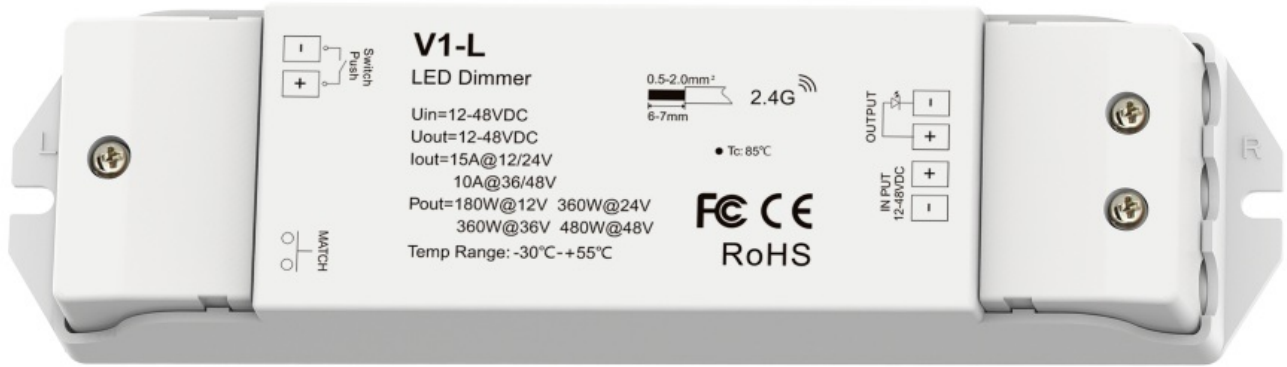
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# iskydance

iskydance V1-L Single Color LED Controller



## Single Color LED Controller

**Model No.:** V1-L

Channel/Step-less dimming/Wireless remote control/Push Dim/Multiple protection

### Features

- 4096 levels 0-100% dimming smoothly without any ash.
- Match with RF 2.4G single zone or multiple zone dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.

### 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
PWM Frequency	500Hz (default)

## Environment

Operation temperature

Ta: -30 OC ~ +55 OC

Case temperature (Max.)

T c: +85OC

IP rating

IP20

## 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

## Warranty and Protection

Warranty

5 years

Protection

Reverse polarity Over-heat Over-load Short circuit

## Weight

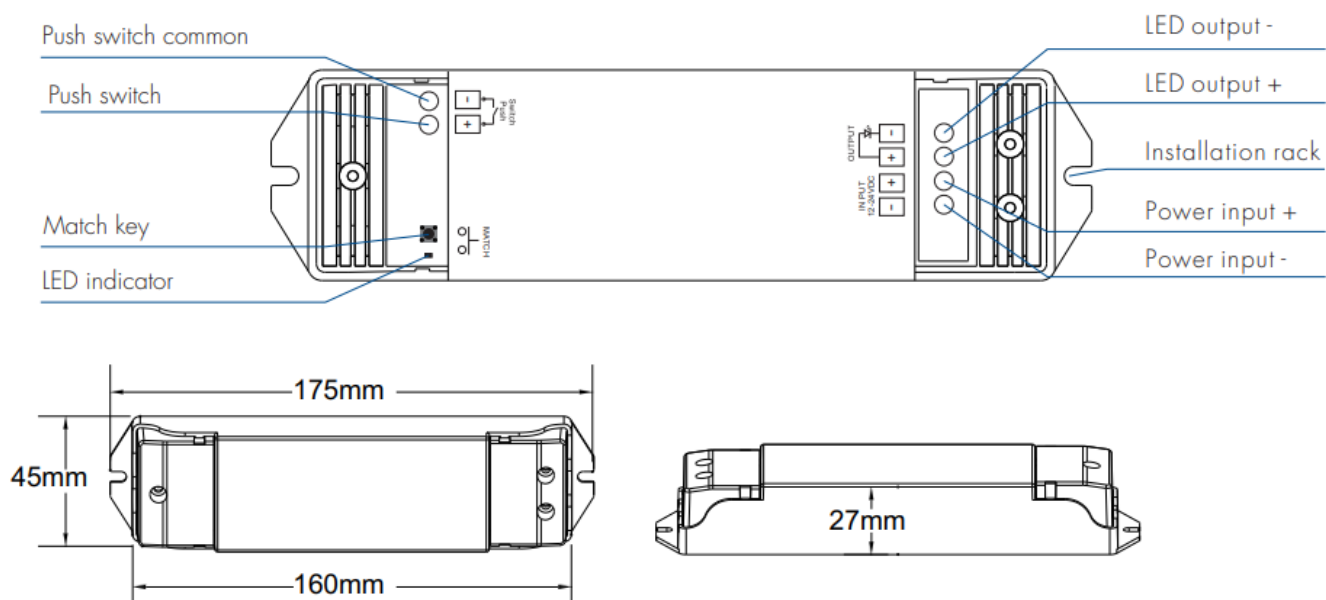
Net weight

0.099kg

Gross weight

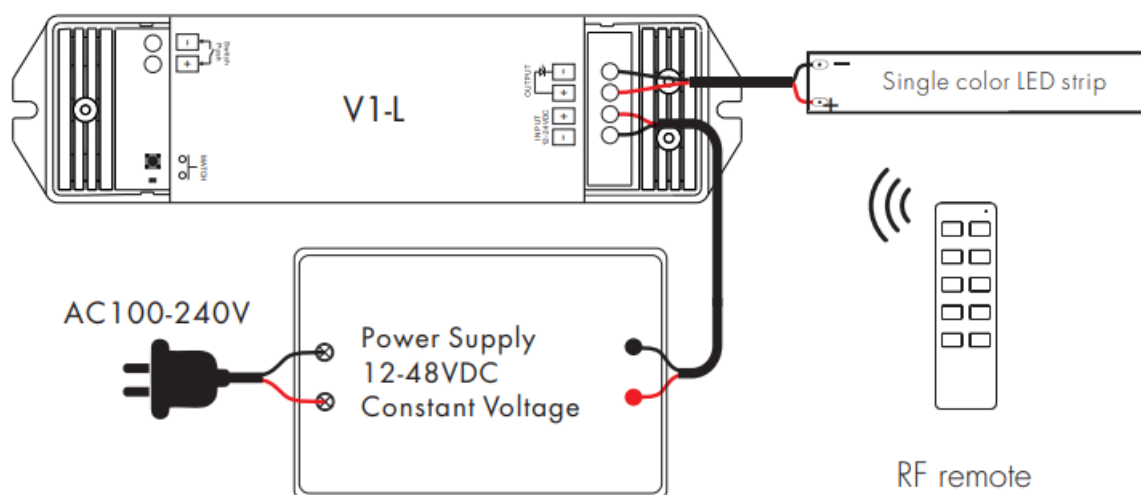
0.116kg

## Mechanical Structures and Installations



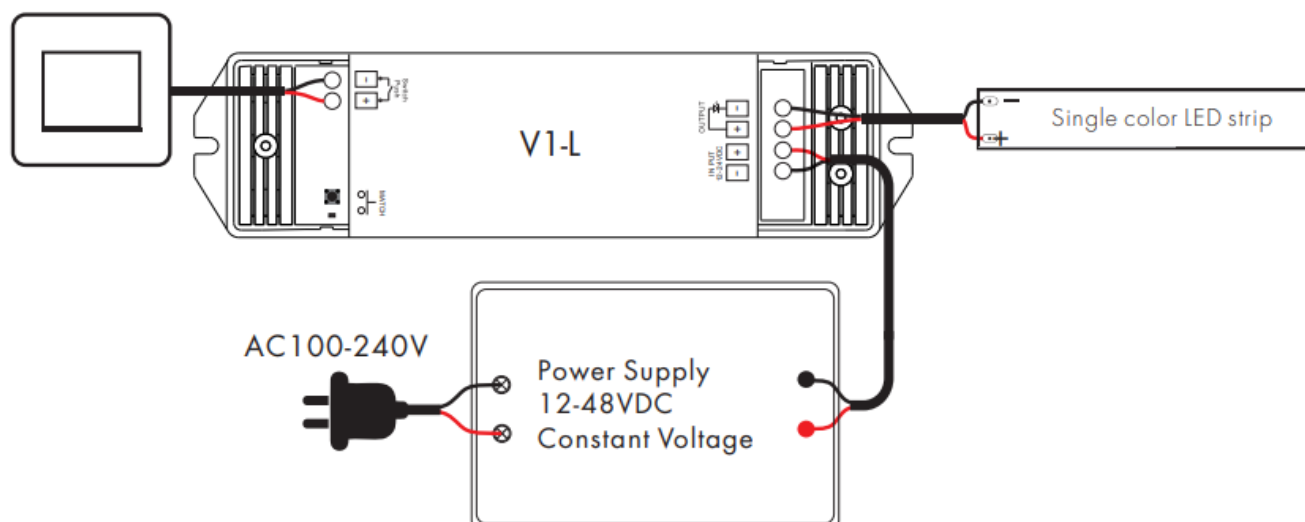
## Wiring Diagram

### Match with dimming remote



### Connect with push switch

#### Push Switch



## 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) on the remote.

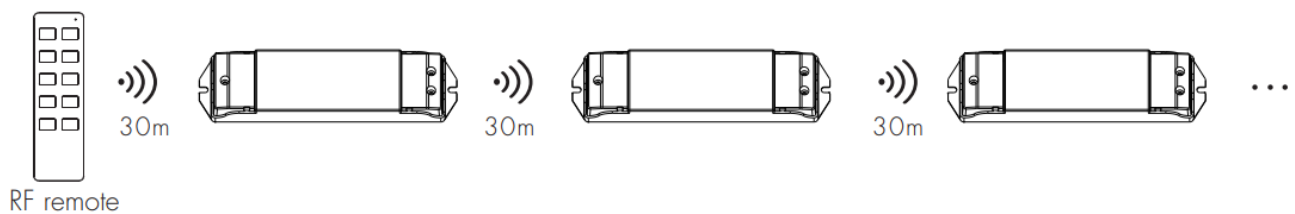
The LED indicator fast flash a few times means match is successful.

#### 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.

### Application notes

1. All the receivers in the same zone.



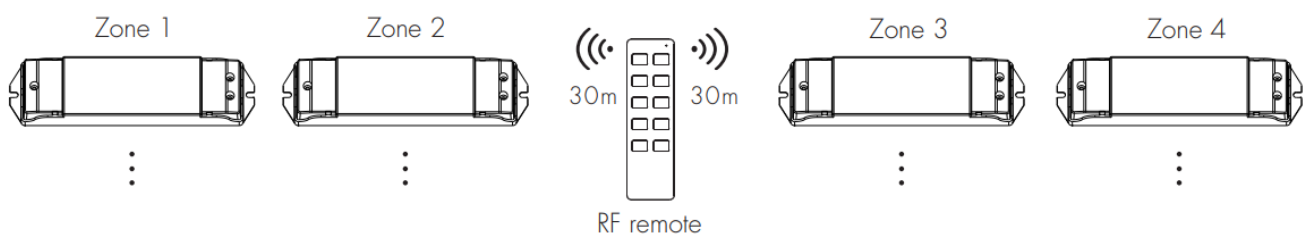
**Auto-transmitting:** One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be extended.

**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.



## 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.

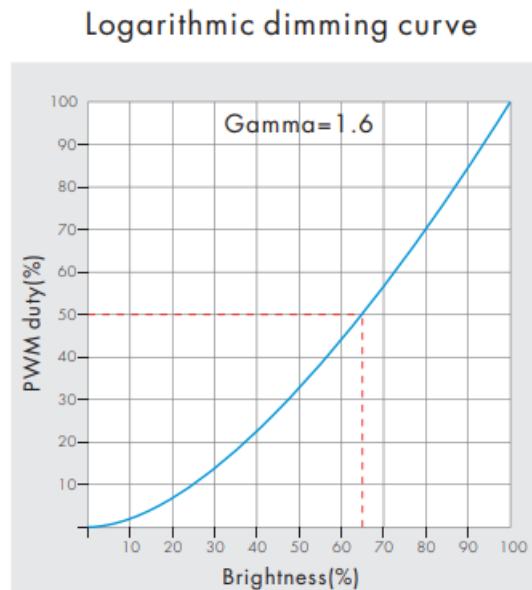
- **Synchronization:**

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.

## Dimming curve



## 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>1. No power.</li> <li>2. Wrong connection or insecure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power.</li> <li>2. Check the connection.</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>1. Output cable is too long.</li> <li>2. Wire diameter is too small.</li> <li>3. Overload beyond power supply capability.</li> <li>4. Overload beyond controller capability.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce cable or loop supply.</li> <li>2. Change wider wire.</li> <li>3. Replace higher power supply.</li> <li>4. Add power repeater.</li> </ol>
No response from the remote	<ol style="list-style-type: none"> <li>1. The battery has no power.</li> <li>2. Beyond controllable distance.</li> <li>3. The controller did not match the remote.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Reduce remote distance.</li> <li>3. Re-match the remote.</li> </ol>

## Documents / Resources

	<a href="#">iskydance V1-L Single Color LED Controller</a> [pdf] User Manual V1-L Single Color LED Controller, Single Color LED Controller, LED Controller
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