



Skydance S1-HV High Voltage RF LED Light Dimmer Controller Instructions

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Skydance S1-HV High Voltage RF LED Light Dimmer Controller



Product Information

The High voltage LED Strip RF dimmer Model No.: S1-HV is a 1-channel/step-less dimming/push-dim/wireless remote control designed for controlling high voltage LED strips. It operates on RF 2.4GHz frequency and can control a maximum distance of about 25 meters. The dimmer can be paired with RF 2.4G single zone or multiple zone single color remote controls. It supports up to 10 remote controls per RF controller and has an auto-transmitting function that allows signal transmission to another controller within a 30m control distance. The dimmer provides smooth 0-100% dimming with 4096 levels and has a light on/off fade time of 3s selectable. It can also be connected with an external AC push switch for on/off and dimming functions.

Technical Parameters

- **Input voltage:** 100-240VAC
- **Input current:** 1.7A
- **Output voltage:** 100-240VDC
- **Output current:** Max 1.5A
- **Output power:** 150-360W
- **Operation temperature:** -30°C to +55°C
- **Case temperature (Max.):** +85°C
- **Dimming data:** RF 2.4GHz + Push Dim
- **Dimming gray scale:** 4096 levels
- **Dimming range:** 0-100%
- **PWM Frequency:** 2KHz
- **Package Size:** L56xW56xH35mm
- **Gross weight:** 0.067kg

Safety and EMC

The High voltage LED Strip RF dimmer complies with the following standards and certifications:

- **EMC standard (EMC):** ETSI EN 301 489-1 V2.2.3
- **Safety standard (LVD):** ETSI EN 301 489-17 V3.2.4
- **Radio Equipment (RED):** EN 62368-1:2020+A11:2020
- **Certification:** CE, EMC, LVD, RED
- **Warranty:** 5 years

Product Usage Instructions

Caution: This controller is designed for high voltage LED strips. Please ensure all wire connections and polarities are correct and secure before applying power to avoid damage to the dimmer or high voltage LED strip.

Match/Delete Remote Control

The High voltage LED Strip RF dimmer can be matched or deleted with a remote control using two different methods:

Method 1: Use the Match key

Match: Short press the Match key on the dimmer, then immediately press the On/Off key (for single zone remote) or Zone key (for multiple zone remote) on the remote control. The LED indicator on the dimmer will fast flash a few times to indicate a successful match.

Delete: Press and hold the Match key on the dimmer for 5 seconds. The LED indicator on the dimmer will fast flash a few times to indicate that all matched remotes have been deleted.

Method 2: Use Power Restart

Match: Switch off the power to the dimmer, then switch it on again. Repeat this process. Immediately short press the On/Off key (for single zone remote) or Zone key (for multiple zone remote) 3 times on the remote control. The light connected to the dimmer will blink 3 times to indicate a successful match.

Delete: Switch off the power to the dimmer, then switch it on again. Repeat this process. Immediately short press the On/Off key (for single zone remote) or Zone key (for multiple zone remote) 5 times on the remote control. The light connected to the dimmer will blink 5 times to indicate that all matched remotes have been deleted.

Note: It is recommended to consult a professional electrician for installation or removal of the dimmer. Keep the device out of reach of children and away from water, humid, or hot environments.

High voltage LED Strip RF dimmer

Model No.: S1-HV

1 Channel / Step-less Dimming / Push-Dim / Wireless Remote Control

Features

- High voltage LED Strip RF 2.4G dimmer, can control maximum about 25 meters of high voltage LED strip, different LED strip may have difference.
- Match with RF 2.4G single zone or multiple zone single color 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.
- 4096 levels 0-100% dimming smoothly without any ?ash.
- Light on/off fade time 3s selectable.
- Connect with external AC push switch to achieve on/off and 0-100% dimming function.

Technical Parameters

Input and Output	
Input voltage	100-240VAC
Input current	1.7A
Output voltage	100-240VDC
Output current	Max 1.5A
Output power	150-360W
Environment	
Operation temperature	Ta: -30 OC ~ +55 OC
Case temperature (Max.)	Tc: +85 OC

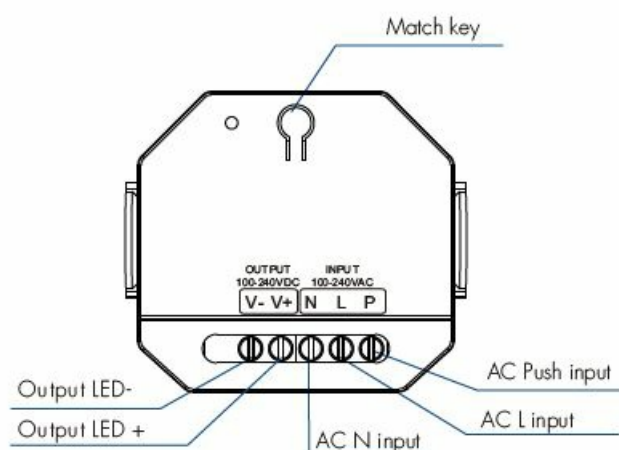
Dimming data

Dimming data	
Input signal	RF 2.4GHz + Push Dim
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0 -100%
PWM Frequency	2KHz
Package	
Size	L56xW56xH35mm
Gross weight	0.067kg

Safety and EMC

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	
Warranty	5 years

Mechanical Structures and Installations



Match remote control

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

Use the 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, The LED indicator fast flash a few times means all matched remotes were deleted

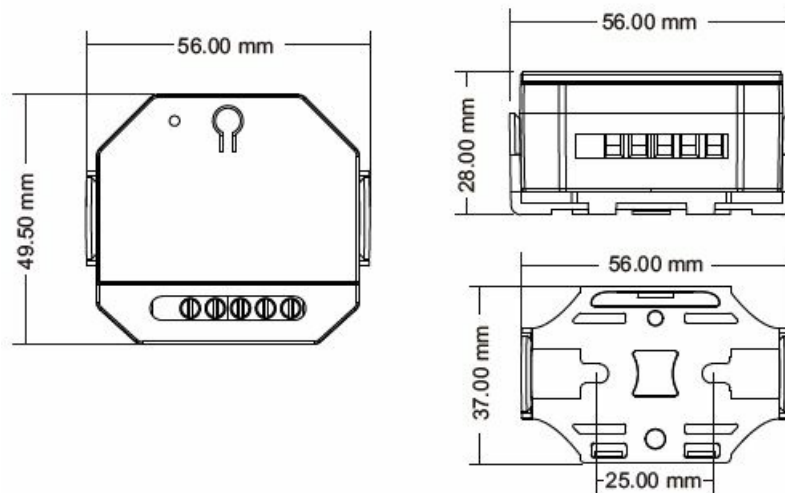
Use Power Restart

Match:

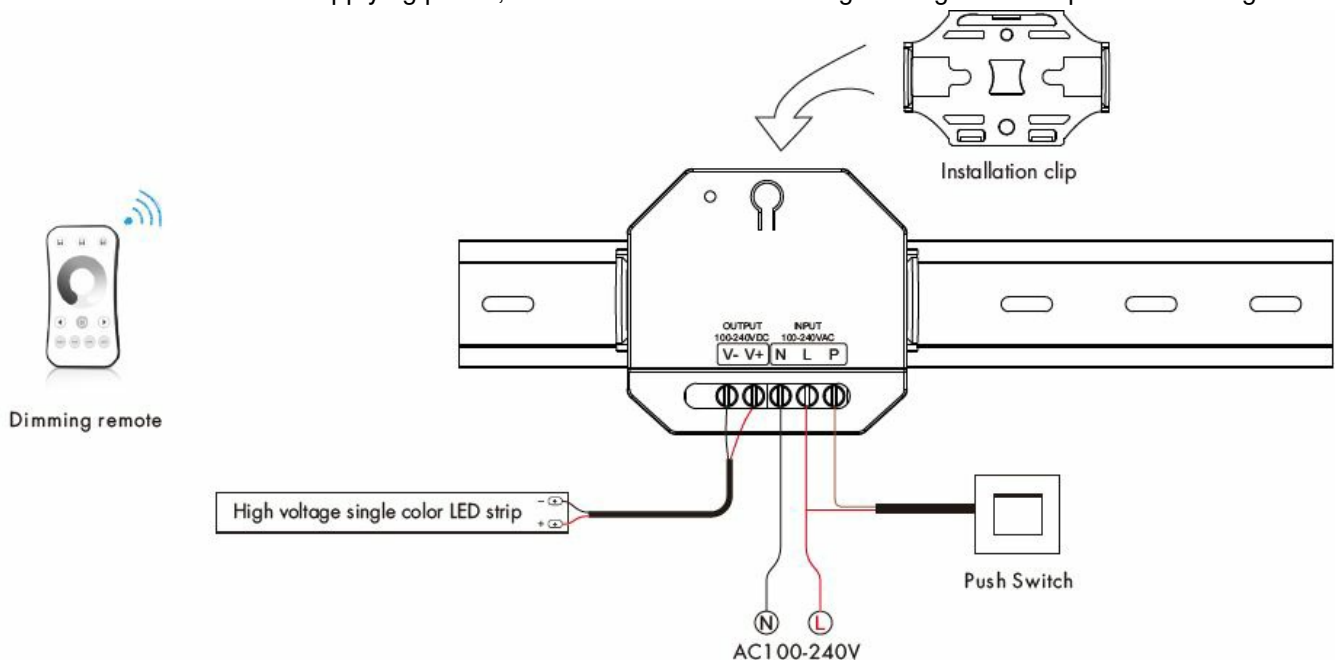
Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

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.

Dimension**Wiring Diagram****Caution:**

This controller apply for high voltage LED strip, please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this dimmer or high voltage LED strip will be damaged

**Note:**

1. The installation must be installed or removed by a professional electrician.
2. Please keep the device out of the reach of children.
3. Please keep away from water, humid or hot environment.
4. The device should be kept away from strong signal sources (such as microwave ovens) to avoid signal

interruption and cause the device not to work properly.

5. Avoid placing the device close to or near high-density materials (such as metal, concrete walls, etc.), which will reduce or block the wireless signal.

Fade in and Fade out Setting

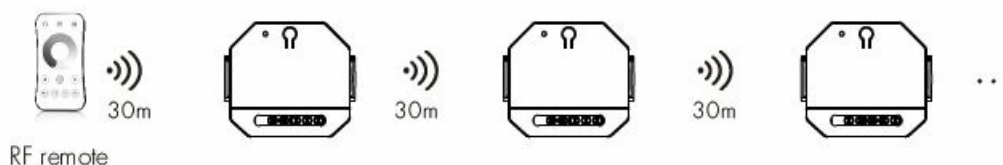
Long press match key 5s, then short press match key 3 times, The lighting effect will be set to the fade in and fade out in 3s, the indicator light of LED controller blinks 3 times. Long press match key 10s, restore factory default parameter, the light on/off time restores to 0.5s.

AC Push Dim Function

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.

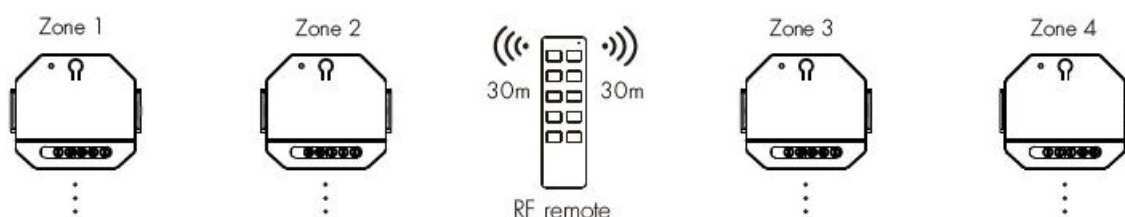
Application notes

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.

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



Documents / Resources

	<p>Skydance S1-HV High Voltage RF LED Light Dimmer Controller [pdf] Instructions S1-HV High Voltage RF LED Light Dimmer Controller, S1-HV, High Voltage RF LED Light Dimmer Controller, Voltage RF LED Light Dimmer Controller, RF LED Light Dimmer Controller, Light Dimmer Controller, Dimmer Controller, Controller</p>
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