LDT-RF-HV-DIM-2A5

High-Voltage LED Strip RF Dimmer

A mains-input dimmer specifically for compatible high-voltage single-colour LED strips. It provides RF control and an AC push-button input; it is not a 12/24 V LED dimmer or a general-purpose lamp dimmer.

Model specifications

Product function	High-voltage single-colour LED strip dimmer
Input voltage	100-240 VAC
Input current	2.7 A
Output voltage	100-240 VDC
Maximum output current	2.5 A
Maximum output power	250-600 W
Control inputs	Compatible RF 2.4 GHz DIM remote + AC Push-Dim
Dimming	0-100%; 4096 levels
PWM frequency	2 kHz
RF distance	Up to 30 m in unobstructed space
Paired remotes	Up to 10
Operating temperature	-25 to +45 °C
Maximum case temperature	+88 °C
IP rating	IP20
Body dimensions	175 x 45 x 27 mm

High-voltage LED output. This must not be confused with a low-voltage constant-voltage receiver or a TRIAC dimmer for arbitrary lamps.

The following technical-reference pages retain the complete diagrams, dimensions, settings and installation instructions. Select the lighting variant stated on this cover; family diagrams may also illustrate other variants.

RF | DIM

RF Dimming High Voltage LED Strip Controller



RoHS

Features

- RF dimming High voltage LED strip controller, can control maximum about 50 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.
- 4096 levels 0-100% dimming smoothly without any flash.
- Light on/off fade time 3s selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

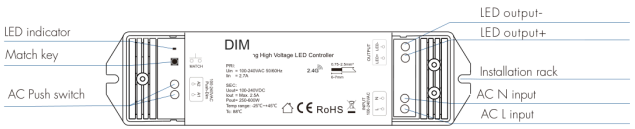
Technical Parameters

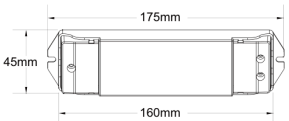
Input and Output	
Input voltage	100-240VAC
Input current	2.7A
Output voltage	100-240VDC
Output current	Max. 2.5A
Output power	250-600W
Environment	
Operation temperature	Ta: -25°C ~ +45°C
Case temperature (Max.)	Tc: +88°C
IP rating	IP20

Dimming data	
Input signal	RF 2.4GHz + Push
Remote distance	30m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
PWM Frequency	2KHz
Package	
Size	L178 x W50 x H38mm
Gross weight	0.146kg

Safety and EMC	
EMC standard	EN IEC 55015:/ EN IEC 61547 EN IEC 61000-3-2/ EN IEC 61000-3-3 ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2
Radio equipment	ETSI EN 300 440
Certication	CE RoHS
Warranty	
Warranty	5 years

Mechanical Structures and Installations

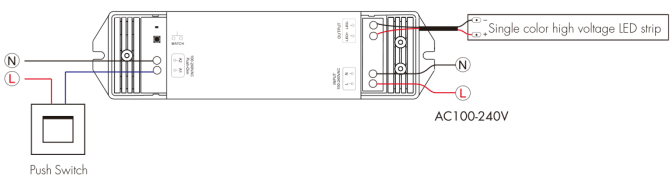






Wiring Diagram

⚠ 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 controller or high voltage LED strip will be damaged.



Note:
It is recommended that it be used at 80% of full load in order to cope with emergencies and harsh environments.

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.

Match RF Remote Control

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

Use 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 remoteswere deleted.

Use Power Restart

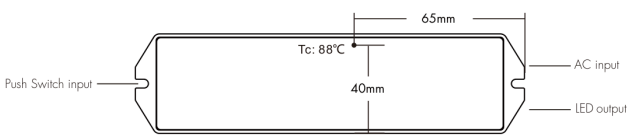
Match:
Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 3 times on the remote.
The light blinks 3 times means match is successful.

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.

Fade in and Fade out Setting

Long press match key 1.5s, set the fade in and fade out time to 3s, the indicator light of LED controller blinks 3 times.
Long press match key 10s, restore factory default parameter, the indicator light of LED controller blinks 2 times,
the light on/off time restores to 0.5s.

Tc Point Location



The Tc point is located at the bottom of the controller