

SLR-UD-RT

Leading Edge Controller User Manual



May, 2020

TouchPlate LED Lighting and Controls, Inc

- Please read this manual carefully before using the product

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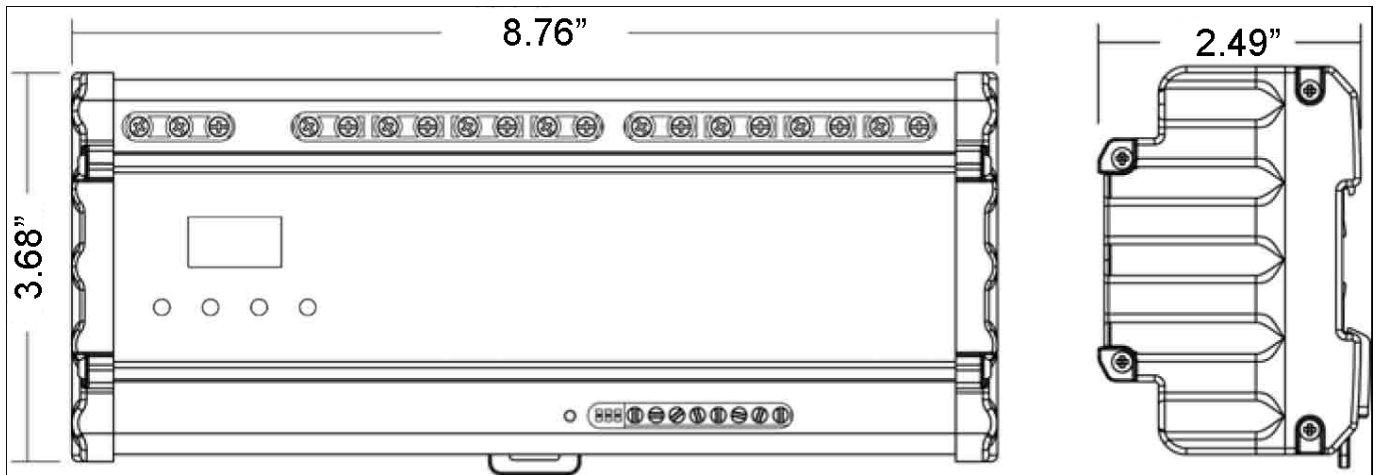
1 Product Features

- Meets DMX512(1990)/RDM,DALI IEC62386 protocol
- LCD display and manual buttons for convenient operation
- 8 channel output forward phase or switch control (max current of each channel is 2A)
- 6.3A fuse delay protection for each 2 outputs
- Set the fade time of each channel separately (range: 0.1-10 seconds)
- Standard 35 mm din rail for convenient installation

2 Technical Parameters

Item	Parameters
Input control signal	DMX512(1990)/RDM, DALI
Input voltage	100-240VAC 50/60Hz
Max output current	2A*8ch
Equipment size	8.76"x3.68"x2.49" (LxWxH) fits standard 35mm din rail
G.W.	2.25 lbs
Operational temperature	0-125°F

2.1 Dimensions (inch)



3 Function of the Product

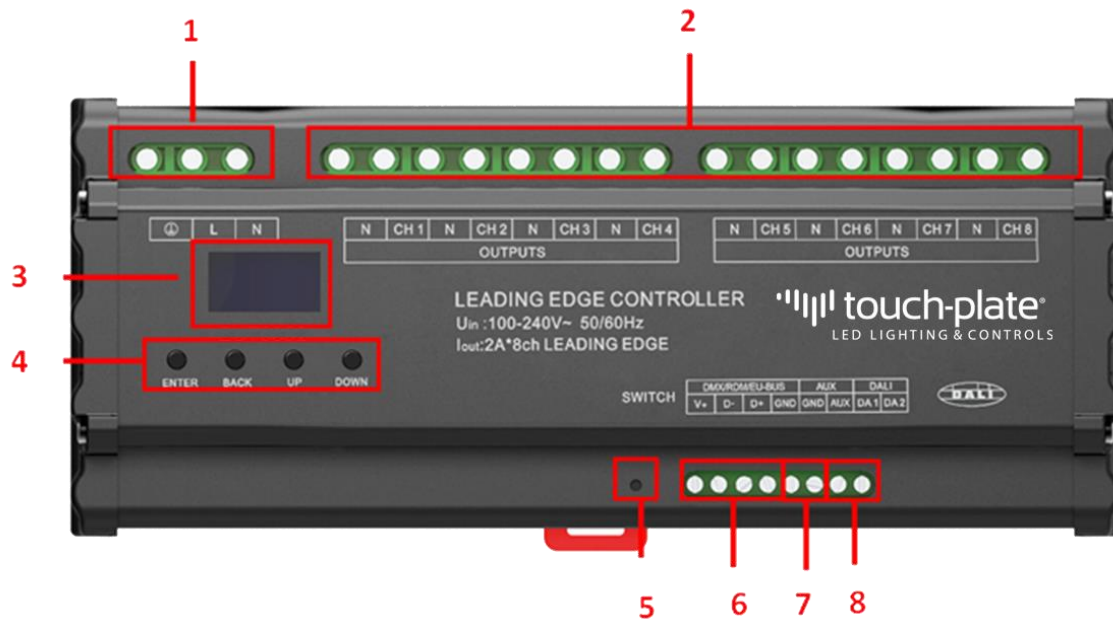


Figure 1

1	AC Input
2	AC Output 8 channel leading edge or switch control
3	LCD display
4	Function buttons
5	Button, press for 4s or more, the device will restart
6	DMX512/RDM port, and 12V output port (supply for control system)
7	Not Used
8	DALI port

4 LCD Function

After the device is powered on the main menu can be seen. See figure 2 and figure 3 below. Press the "ENTER" button to enter the sub menu. Press "BACK" to return to the upper menu. Press "UP" or "DOWN" button to move the cursor up or down.

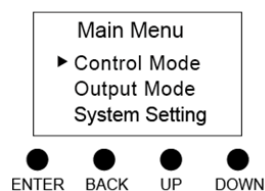


Figure 2

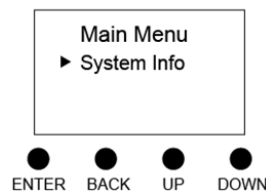
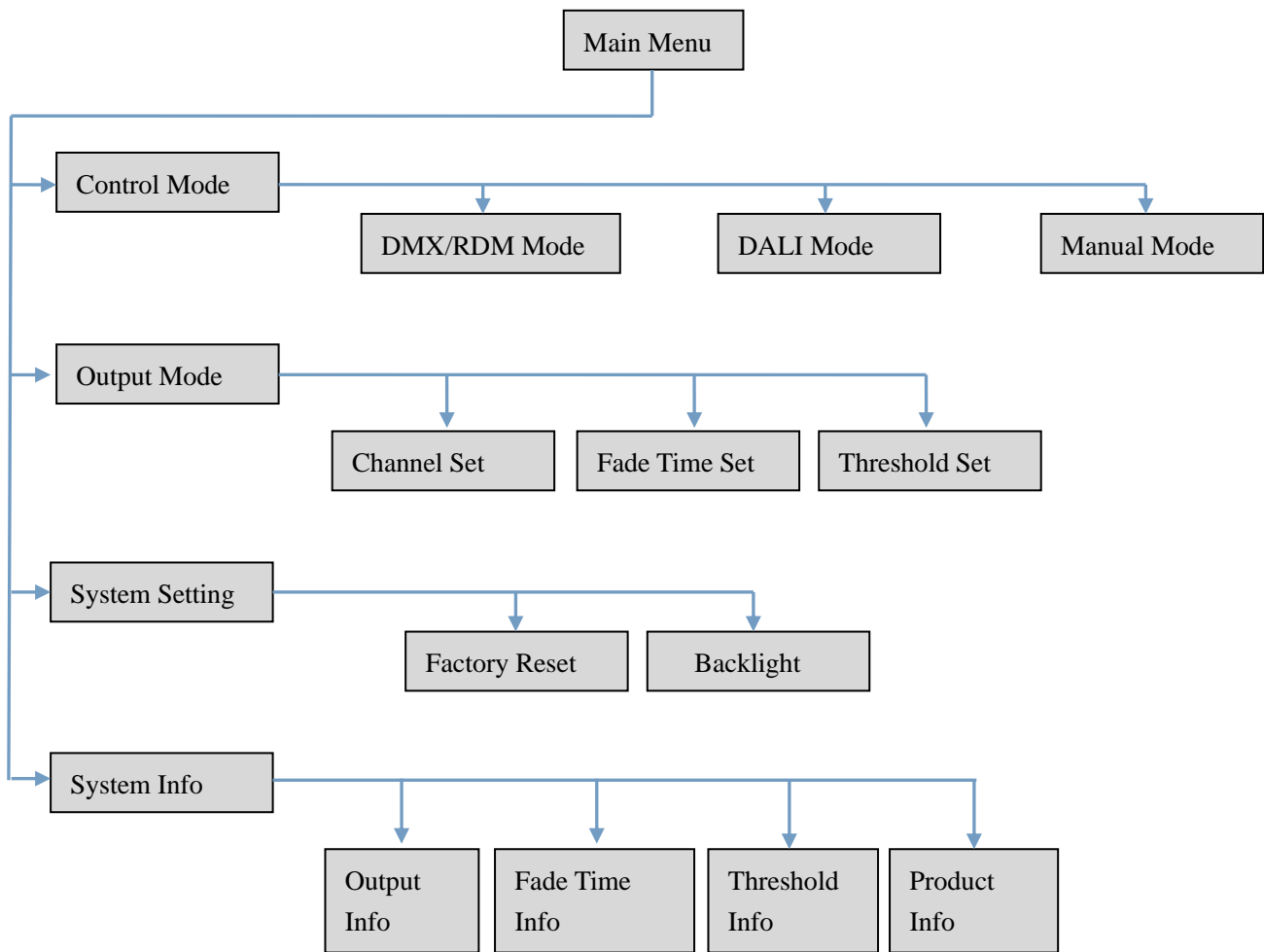


Figure 3

Button	Function
ENTER	Confirm key / Confirm the selected state / Enter the menu option to set the state
BACK	Return key / Quit the current option / Return to the previous menu
UP	Move the menu cursor up / Increase the value of the option Note: Long press "UP" to increase the value rapidly
DOWN	Move the menu cursor down / Decrease the value of the option Note: Long press "DOWN" to decrease the value rapidly



5 Control Mode

5.1 DMX/RDM Mode

In DMX mode, each channel is controlled by DMX/RDM. When using DMX512(1990) protocol press "ENTER" to set the DMX address for each channel (acceptable range: 1-511). Each channel is independent of one another. The channels can be the same or different, and can be continuous or discontinuous. You can control a group by setting the same address for all the channels.

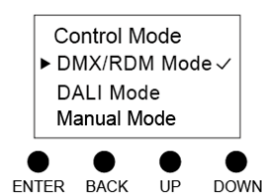


Figure 4

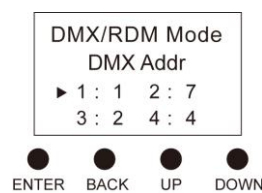


Figure 5

5.2 DALI Mode

In DALI Mode, the address of the DALI mode is assigned by the system itself but can be modified by the host computer. Press “ENTER” to read the short addresses of the 8 channels. The addresses of the 8 channels are independent of each other.

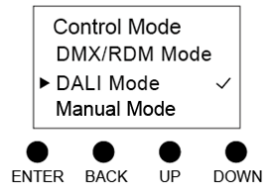


Figure 6

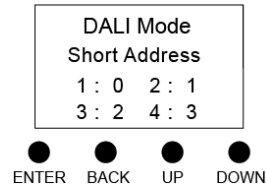


Figure 7

5.3 Manual Mode

In Manual Mode, you can manually set the brightness for each channel (range: 0-100%).

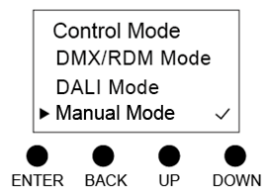


Figure 8

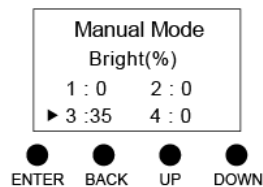


Figure 9

6 Output Mode

6.1 Channel Set

You can choose the output type for each channel. There are two output types: SW and LPC.

- SW: Switching, On/Off
- LPC: Dimming leading edge drivers or lighting loads

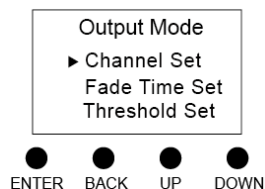


Figure 10

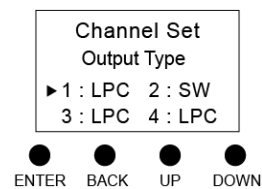


Figure 11

6.2 Fade Time Set

In Fade Time Set press “ENTER” to set the fade time of each channel. The fade time is in 0.1 second increments (range: 0-100).

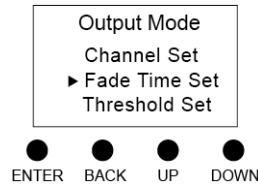


Figure 12

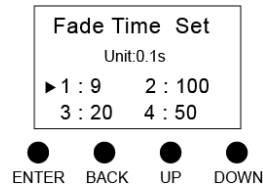


Figure 13

Note: Fade Time is valid only in LPC mode.

6.3 Threshold Set

In Threshold Set press “ENTER” to set the threshold for each channel (range: 0-100%).

SW output type:

When received brightness is \geq the threshold setting, the corresponding channel output is 100%. If the received brightness is $<$ the threshold setting, the corresponding channel output is 0%.

LPC output type:

The threshold is the minimum brightness setting. When the received brightness is 0, the output channel is 0%. If the received brightness is > 0 , the output channel is set to the threshold setting. When the received brightness is $>$ the threshold setting, the output channel is the received brightness value.

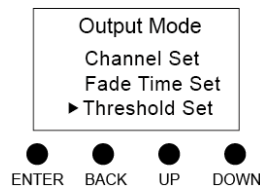


Figure 14

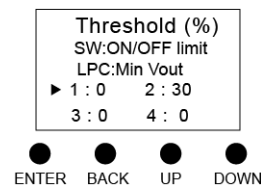


Figure 15

7 System Setting

In the System Setting you can perform a factory reset or enable/disable LCD backlight.

7.1 Factory Reset

Press “ENTER” to reset factory settings. Select “Yes” and then press “ENTER” to perform the factory reset or select “No” and then press “ENTER” to cancel.

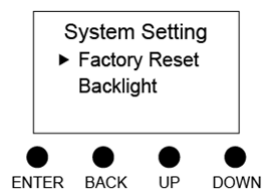


Figure 16

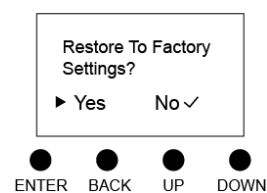


Figure 17

7.2 Backlight

The backlight setting allows the LCD to stay on or go to sleep after 60 seconds. When the backlight is set to "Yes" the display will automatically enter the sleep mode after 60 seconds of no activity. Press any key to end the sleep mode and wake the screen up. When the backlight is set to "No" the display will remain on and at the last used menu.

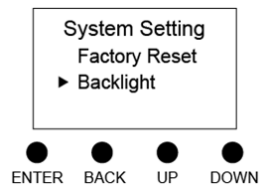


Figure 18

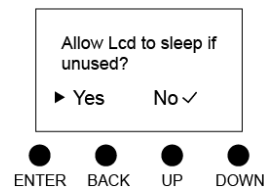


Figure 19

8 System Info

The System Info menu provides a quick reference for viewing the current settings of the Output Mode, Fade Time and Threshold setting for each Channel. It also has the model information and firmware revision. In this menu the current system information is displayed, as follows:

Page 1 (Figure 23)

- Line 1 System Info 1/4
- Line 3 Shows "Output Mode" Ex: DMX Mode
- Line 4 Output Type:
- Line 5-8 Output Type of all channels

Page 2 (Figure 24)

- Line 1 System Info 2/4
- Line 3 Shows "Output Mode" Ex: DMX Mode
- Line 4 Fade Time:
- Line 5-8 Fade Time of all channels

Page 3 (Figure 25)

- Line 1 System Info 3/4
- Line 3 Shows "Output Mode" Ex: DMX Mode
- Line 4 Threshold:
- Line 5-8 Threshold of all channels

Page 4 (Figure 26)

- Line 1 System Info 4/4
- Line 3 Solare Universal
- Line 4 Firmware creation date
- Line 5 Firmware creation time
- Line 6 TouchPlate, Inc.

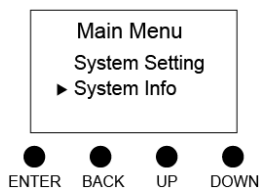


Figure 20

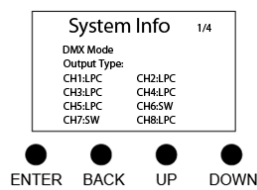


Figure 21

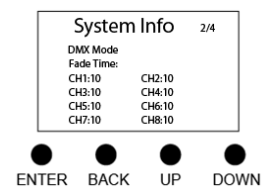


Figure 22

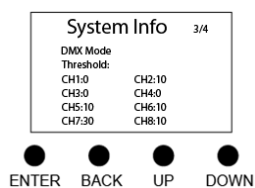


Figure 23

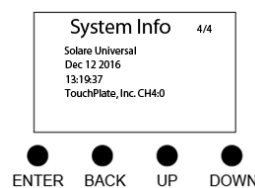


Figure 24

9 Wiring Diagram

