

SLR-4D-RT

Phase Cut & 0-10V Dimming Controller User Manual



March, 2023

- Please read this manual carefully before using products
- Please keep the product instructions for inspection

Catalog

1	Summary	3
1.1	Ordering Information.....	3
2	Product Features	3
3	Technical Parameters	4
3.1	Equipment size(mm)	4
4	Function diagram of the product	4
5	LCD function.....	5
5.1	Control Mode	7
5.1.1	EU-BUS mode.....	7
5.1.2	DMX/RDM mode.....	7
5.1.3	DALI mode	7
5.1.4	Manual mode.....	7
5.2	Output mode	8
5.2.1	Channel Set.....	8
5.2.2	Fade Time Set.....	8
5.2.3	Threshold Set.....	8
5.3	System Setting.....	8
5.3.1	Factory Reset	8
5.3.2	Backlight.....	9
5.4	System Info	9
6	Emergency Switch Function.....	9
7	Wiring Diagram	10



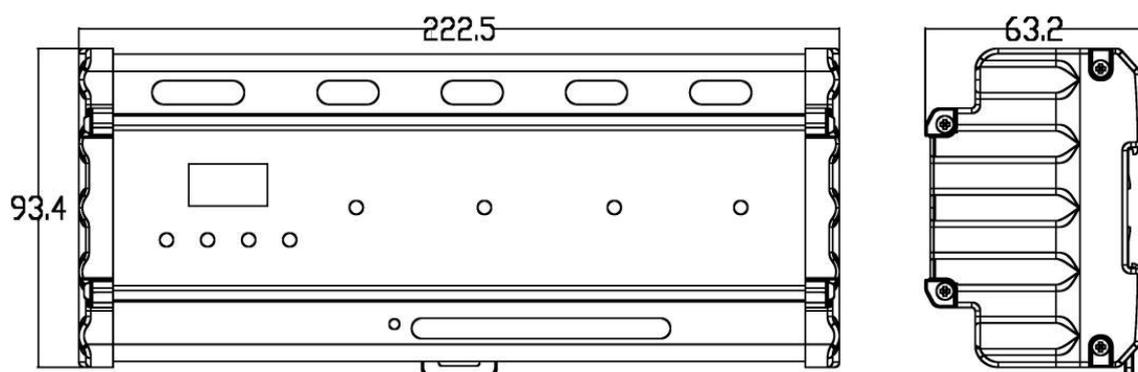
Product Features

- Meets DMX512(1990)/RDM, DALI IEC62386 protocol and EU-BUS protocol
- Output 4 channels AC MOSFET phase cut signal and their synchronous DC 0-10V control signal
- 4 AC MOSFET can work as leading edge (LPC) mode, trailing edge(TPC) mode or switch mode
- Maximum output current of AC MOSFET is 5A/ch
- Built-in LCD
- Set fade time of each channel separately, range of 0.1-10s
- Each circuit is equipped with emergency switch that controls full brightness (100%) output function
- Can save up to 8 events
- Standard 35 mm din rail, convenient installation

3 Technical Parameters

Item	Parameters
Input voltage	100-240VAC
Input control signal	DMX512(1990)/RDM, DALI IEC62386,EU-BUS
Maximum output current of phase cut	5A*4(AC MOSFET, please take 5A*PF as output current limit for each circuit)
Maximum output signal current	20mA*4(for DC0-10V)
Maximum inrush current limit per channel	100A
Equipment size	222.5*93.4*63.2mm(L*W*H),standard 35mm din rail
Packing size	226*100*68mm(L*W*H)
G.W.	975g
Operational temperature	-20-50°C

3.1 Equipment size (mm)



4 Function diagram of the product

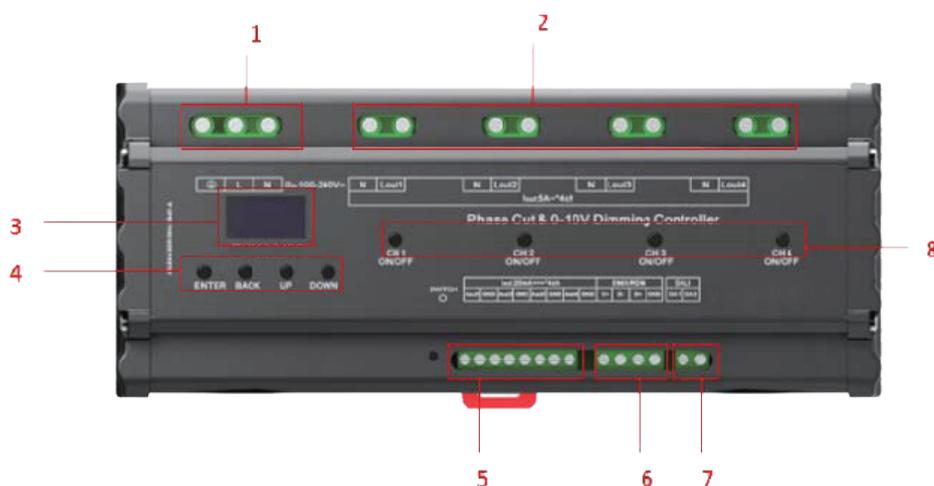
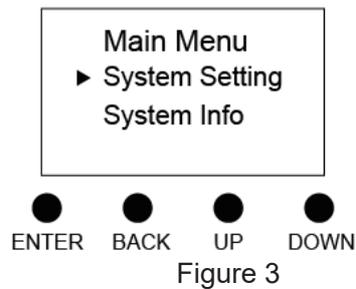
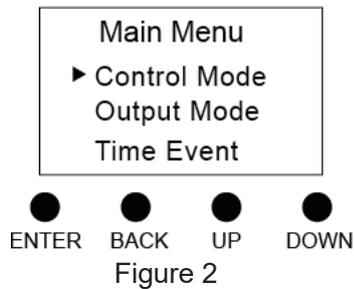


Figure 1

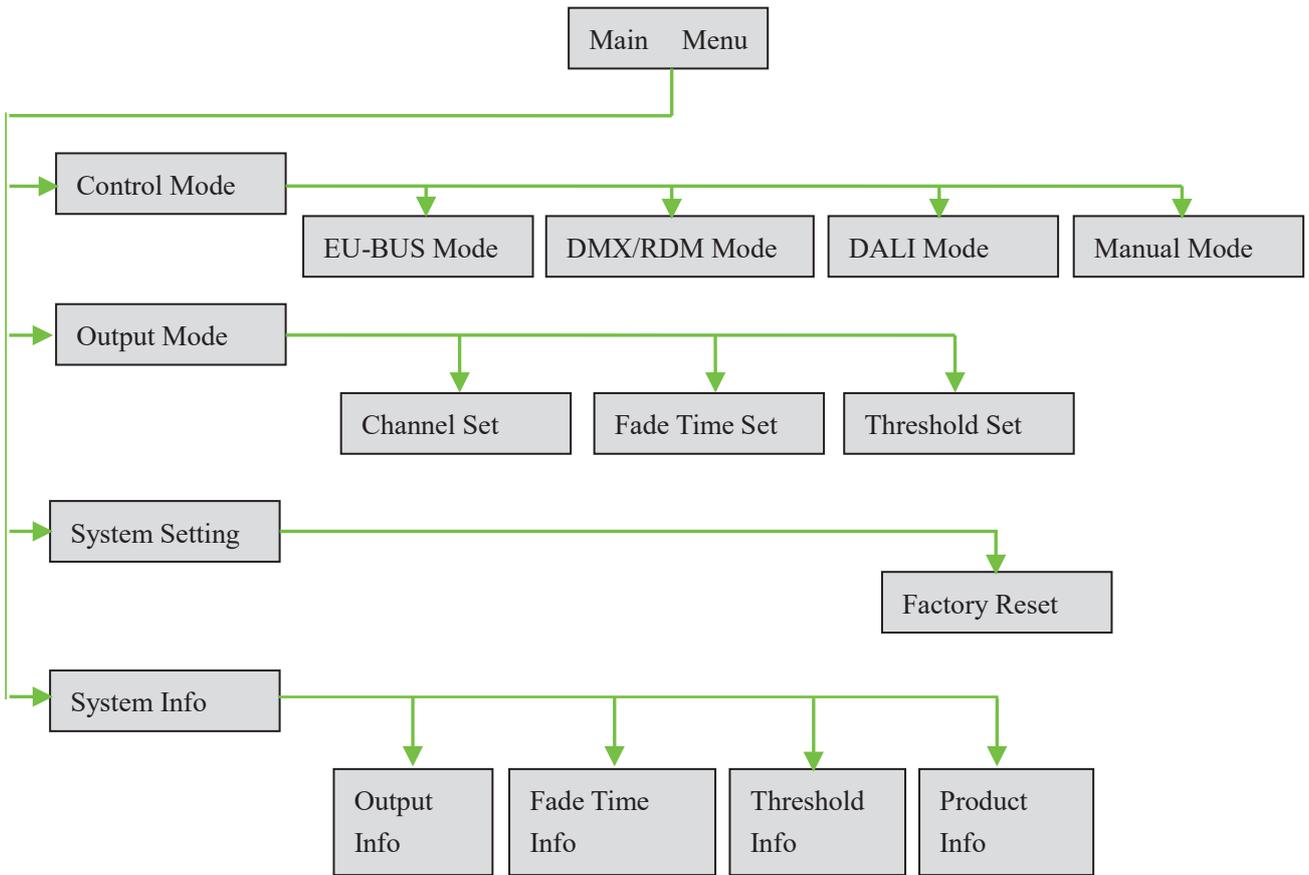
1	AC input port
2	4 AC MOSFET output ports, corresponding with 4 DC 0-10 V ports from left to right in proper order. For each channel, the addresses of both AC MOSFET and the corresponding 0-10V are shared.
3	LCD display
4	Function button
5	4 DC analog voltage output ports(0-10V)
6	DMX 512/RDM,EU-BUS signal port(Don't use DMX 512/RDM and EU-BUS protocol simultaneously, they share the same terminals)
7	DALI signal port
8	Emergency switch

5 LCD function

After a successful connection, the menu will be seen in Figure 2. Press the button "ENTER" to enter the sub menu as shown in Figure 3, press "BACK" to return to the upper menu, press "UP" or "DOWN" button to move the cursor up or down.



Button	Function
ENTER	Confirm key, confirm the selected state, enter the option to set the state
BACK	Return key, return to the upper menu, exit the option to set the state
UP	Move up the cursor; change the status of the option
DOWN	Move down the cursor; change the status of the option



5.1 Control Mode

5.1.1 EU-BUS mode

In the current mode, the output signal is controlled by EU-BUS command, the host computer can scan equipment, assign the box number, read parameters, update the firmware of equipment, achieve group and scene control . The device can operate according to the instruction of the upper computer.

Select the EU-BUS mode, press the “ENTER” can view the device model, the box number, serial number (GUID), press “BACK” to return to the upper menu.

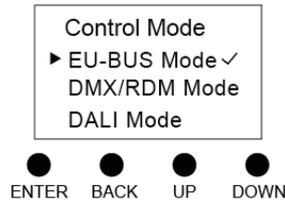


Figure 4

5.1.2 DMX /RDMmode

In the current mode, the output signal is controlled by DMX. Press” ENTER”, then set DMX address for each channel . The X value can be set from 1 to 511. The addresses of 4 channels can be continuous or discontinuous, such as 1, 2, 3, 4, or 1, 5, 8, 9. That is to say, the addresses of the 4 channels are independent, but for any channel, the addresses of AC MOSFET phase cut channel and the corresponding 0-10V DC channel are the same. In addition, the addresses of 4 channels can be the same, so that they can be controlled simultaneously.

When using RDM(2009), the upper computer can scan the device, and assign the address, read the parameters.

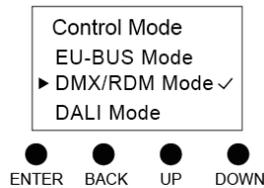


Figure 5

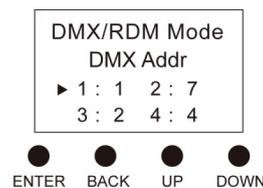


Figure 6

5.1.3 DALI mode

The output signal is controlled by the DALI command in this mode. The address of the DALI mode is defined by the system itself and can be modified by the host computer. The addresses of 4 circuits are independent of each other, but the address of AC MOSFET for each circuit is the same as the corresponding 0-10V DC channel.

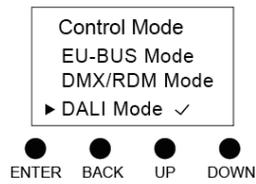


Figure 7



Figure 8

5.1.4 Manual mode

In the current mode, the output brightness level of 4 channels can be manually set via the button and LCD. The X is brightness of each channel, range of 0-100%.

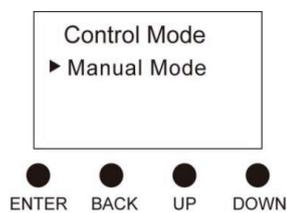


Figure 9

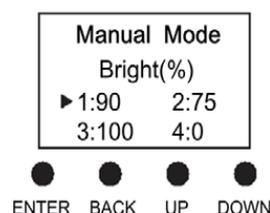


Figure 10

Á

Á

5.4 System Info

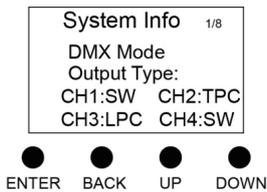


Figure 38

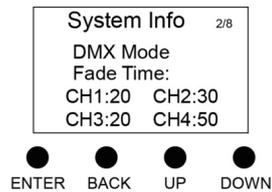


Figure 39

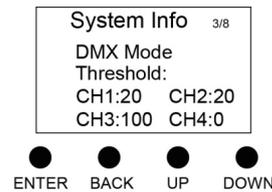


Figure 40

In this menu, the current system information can be displayed, which is shown as follows:

- Page 1: control mode and output type
- Page 2: control mode and fade time
- Page 3: control mode and threshold
- Others except the last page: event status and event content
- Last page: product model and the current time

6 Emergency Switch Function

4 channel output, each channel corresponds to a button. If the channel has output, press the button to switch off the 0-10V channel and the corresponding phase cut channel output. If the channel doesn't have output, press the button to switch on the 0-10V and the phase cut channel output.

7 Wiring Diagram

