EUT0802 Series

Leading Edge Controller

User Manual

May, 2016

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

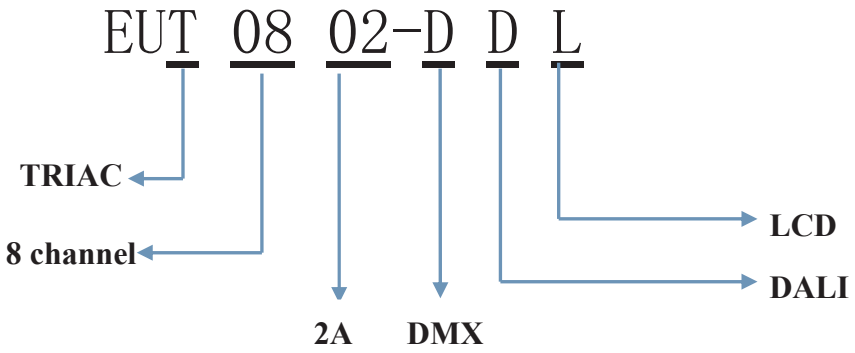
Catalog

1 Summary

Thanks for using the EUT0802 series phase cut controller. Leading edge controller is a multi-function triac dimmer Control mode of EUT0802 is flexible, which complies with 4 control protocols:
1, support the international widely adopted DMX-512 (1990) /RDM and DALI standard protocol, and can access to KNX, Dynalite, Lutron, Crestron, LDS and other intelligent dimming network via gateway.
2, support EU-BUS lighting control protocol developed by EUCHIP. It can be used with relay switch controller, clock module, panel module, sensor module to achieve the group and scene control through the Euchips9 PC software. This solution is widely used in the family, conference rooms, hotels, schools, and other occasions.
3, support Touchdim, manual control, timing control function (optional).The user can manually turn ON/OFF or dim the brightness.

1.1 Ordering Information

Model	DALI	DMX/RDM	EU-BUS	Manual control	Timer function
EUT0802-DDL	Y	Y	Y	Y	N



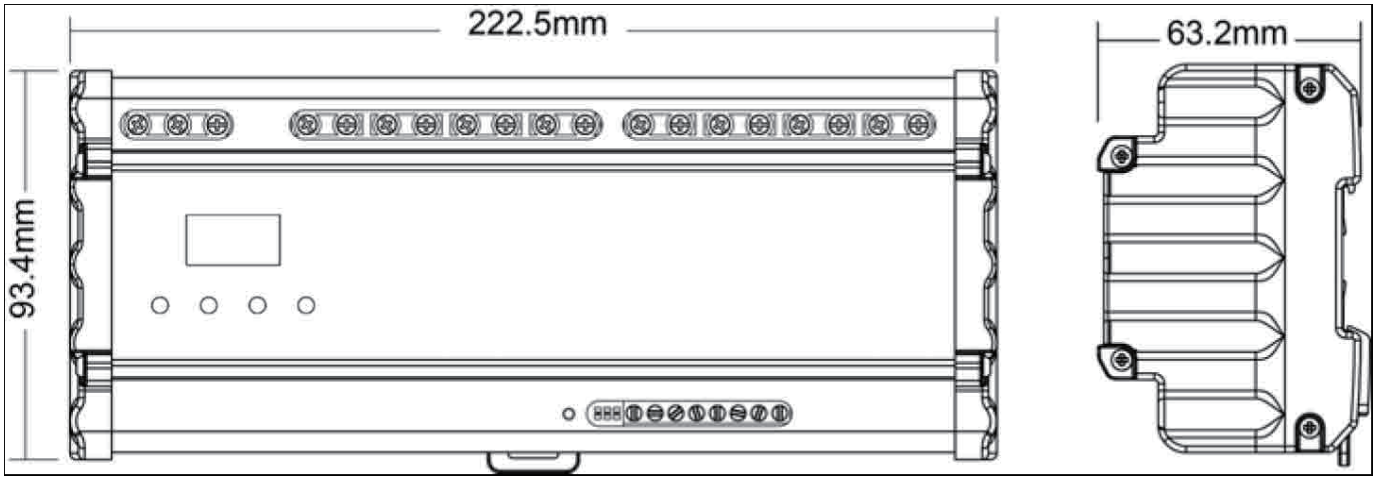
2 Product Features

- Meets DMX512(1990)/RDM,DALI IEC62386 protocol, and EU-BUS protocol developed by EHCHIPS
- With LCD display and manual button, the user can operate more conveniently
- In the EU-BUS mode, you can remote update firmware through the EU-BUS interface
- Output 8 channel phase cut or switch control, max current of each channel is 2A
- 6.3A fuse delay protection for each 2 outputs
- Output 12VDC,supply for control system
- Set fade time of each channel separately, range of 0.1-10s
- Standard 35 mm din rail, convenient installation
- suitable for use with TRIAC dimming driver, incandescent, low voltage, etc.

3 Technical Parameters

Item	Parameters
Input control signal	DMX512(1990)/RDM，DALI and EU-BUS signal
Input voltage	100-240VAC　50/60Hz
Max output current	2A*8ch
Equipment size	222.5*93.4*63.2mm(L*W*H),standard 35mm din rail
Pack size	230*104*72mm(L*W*H)
G.W.	1050g
Operational temperature	-20-50℃

3.1 Dimension(mm)



4 Function Show of the Product

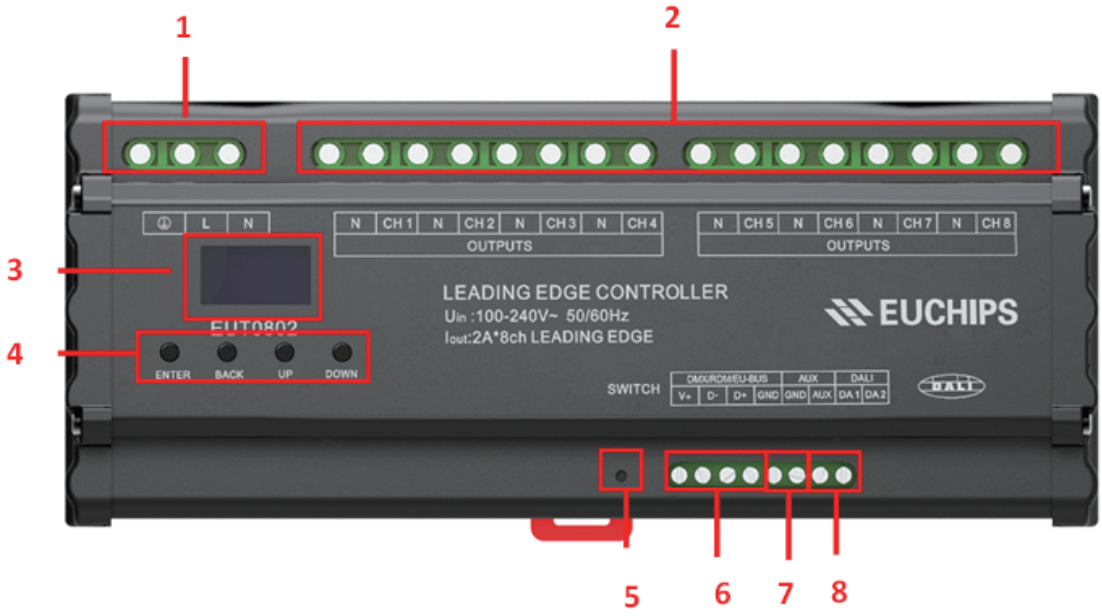


Figure 1

1	AC input port
2	output 8 channel leading edge or switch control
3	LCD display

4	Function button
5	Button, press for 4s or more, the device will restart
6	12V output port(supply for control system),and DMX512/RDM,EU-BUS port
7	Dry contact signal
8	DALI signal port

5 LCD Function

After the device is powered, the main menu will be seen, including control mode, output mode, time event, system settings and system information ,see figure 2 and figure 3. Press the button "Enter" 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.

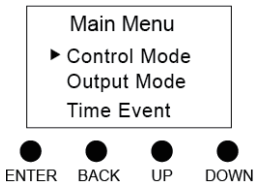


Figure 2

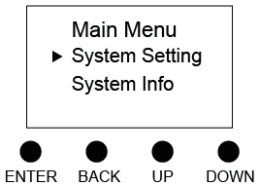
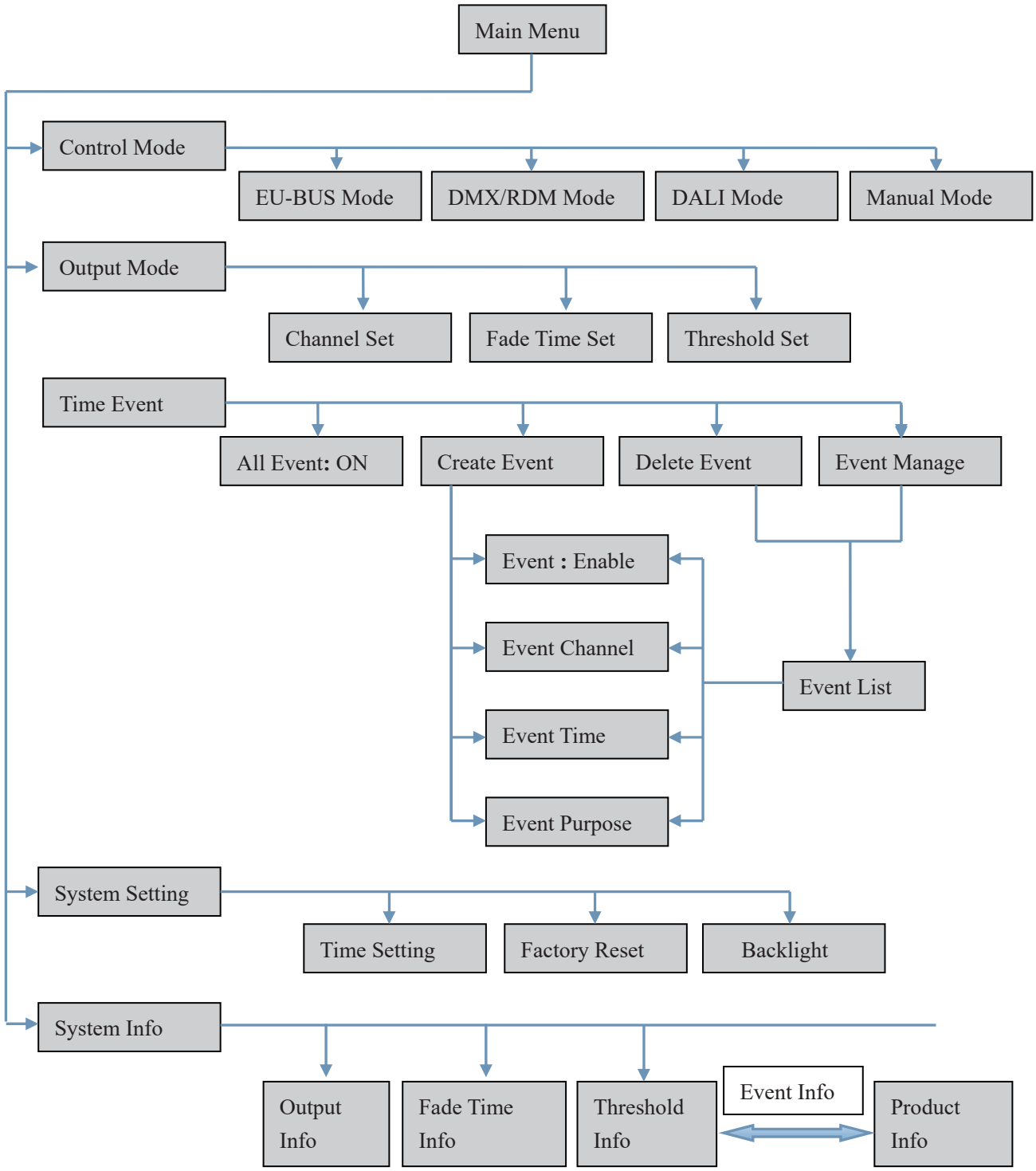


Figure 3

Button	Function
ENTER	Confirm key, confirm the selected state, enter the option to set the state
BACK	Return key, quit the option, return to the upper menu,
UP	Move up the cursor; change the status of the option; when setting DMX Address, Threshold, Fade Time, long press "UP", the value will increase rapidly
DOWN	Move down the cursor; change the status of the option; when setting DMX Address, Threshold, Fade Time, long press "DOWN", the value will decrease rapidly



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 scanning equipment, assign the box number, read parameters, update the firmware of equipment. The device can operate according to the instruction of the upper computer.

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

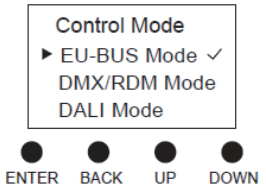


Figure 4

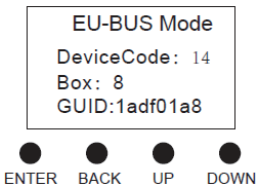


Figure5

5.1.2 DMX/RDM mode

In the current mode, the output signal is controlled by DMX/RDM.

When using DMX512(1990) protocol, press "ENTER"，then set DMX address for each channel，range of 1-511. The addresses of 8 channels are independent of each other, can be the same or different, and can be continuous or discontinuous. To set the same address for all channels, you can control the group.

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

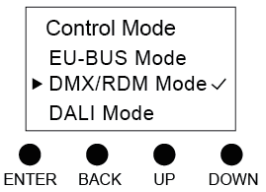


Figure 6

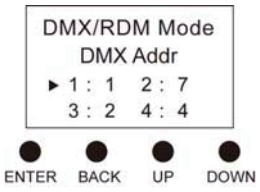


Figure7

5.1.3 DALI mode

The output signal is controlled by the DALI command in this 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 8 channels, The addresses of 8 channels are independent of each other.

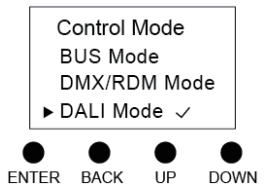


Figure 8

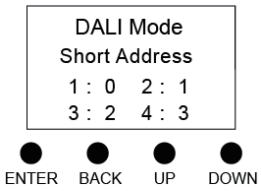


Figure9

5.1.4 Manual mode

In the current mode, you can manually set the brightness for each channel, range of 0-100%.

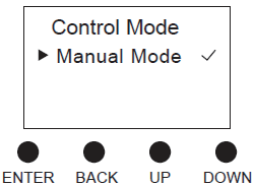


Figure10

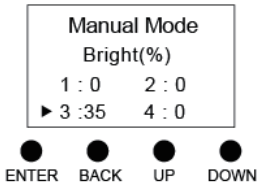


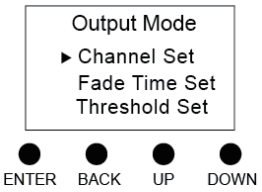
Figure11

5.2 Output mode

5.2.1 Channel Set

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

a) SW: Switch mode, as the power switch
b) LPC: To dim leading edge drivers or devices



Firure12

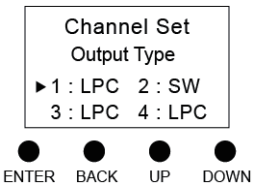


Figure13

5.2.2 Fade Time

In the current mode, set fade time of each channel. The range is 0-100(Unit:0.1s).

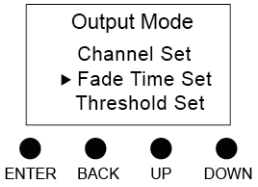


Figure 14

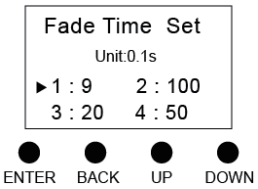


Figure 15

Note1： Fade Time is valid only in LPC mode.
Note2： In EU-BUS mode, Fade Time is invalid , the user can set fade time via software only.

5.2.3 Threshold

You can set the switch threshold for each channel.
In SW mode, when received brightness≥the threshold value, the corresponding channel output 100% brightness. or else shut down the output.
In LPC mode, the switching threshold is the minimum brightness value. The received brightness value is 0, shut down the output; when received brightness value≤threshold value, and is not 0, output minimum brightness; when the received brightness value > switch threshold, output the received brightness. The setting range of brightness threshold value is 0-100%.

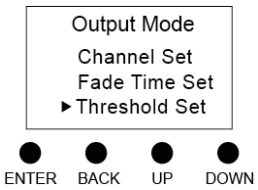


Figure 16

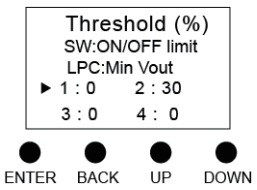


Figure 17

5.3 System Setting

After entering the system settings, you can set the current time of the system, turn on or off the backlight and restore the factory settings.

5.3.1Factory Reset

Press ENTER to choose whether to reset factory settings.

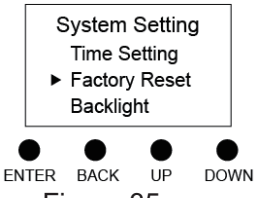


Figure 35

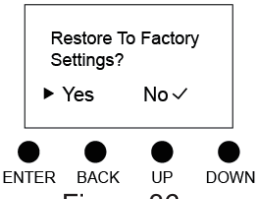


Figure 36

5.3.2 Backlight

When the backlight is set to "ON",the display unattended operation over 60s, LCD will show the current date and time. After 60s, LCD will automatically enter the sleep mode, press any key to end the sleep mode, enter the setting state.

When the backlight is set to "OFF", the display will remain the current setting state.

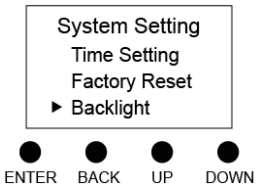


Figure 37

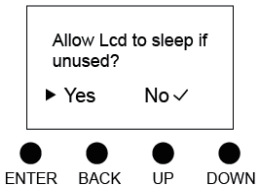


Figure38

6 Wiring Diagram