

EUR1220

Relay Switch Controller



Summary

Thanks for using the EUR1220 relay switch controller. The product adopts advanced microcomputer control technology, analysis widely used DMX-512 (1990) /RDM,DALI standard protocol, and EU-BUS protocol developed by EUCHIPS, output 12 relay switch signal. The maximum carrying current of each relay switch is 20A,the total 12 channel is 240A.In addition, the device can be connected into the Dynalite system by the Dynalite gateway (Note: the Dynalite trademark holder is PHILIPS, the relevant right is owned by the holder of the trademark, the same below)

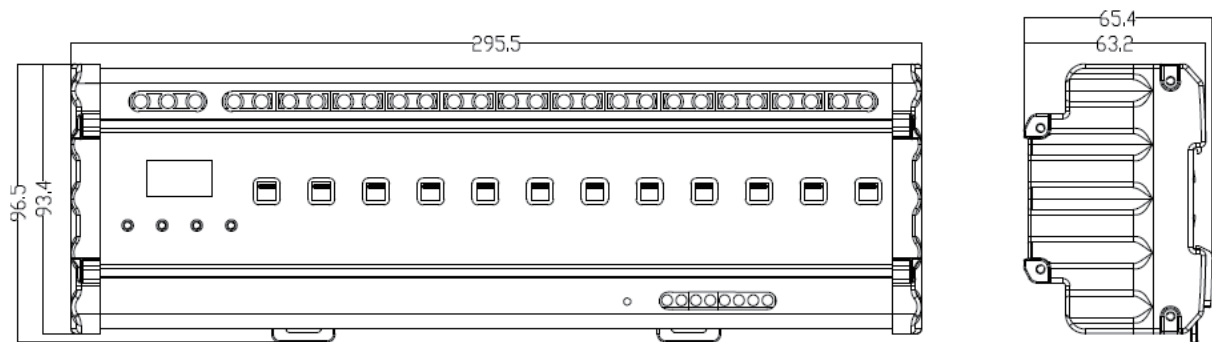
Product Features

- Meets DMX512(1990)/RDM,DALI IEC62386 protocol and EU-BUS protocol developed by EUCHIPS
- Output 12 channel relay switch signal
- Built-in LCD, the user can operate more conveniently
- Set fades time of each channel separately, range of 0.1-60.9s
- Standard 35 mm din rail, convenient installation
- Relay switch channel can be turned on or off manually
- Can save up to 8 events
- Suitable for intelligent lighting control - Home Furnishing, office buildings, schools, stadiums, outdoor architecture etc.

Technical Parameters

Item	Parameters
Input voltage	100-240VAC 50/60Hz
Input control signal	DMX512(1990)/RDM, DALI IEC62386,EU-BUS signal
Max carrying current	20A*12ch
Dimension	295.5*93.4*63.2mm(L*W*H),standard 35mm din rail
Pack size	230*104*72mm(L*W*H)
G.W.	1100g
Operational temperature	-20-40℃

Dimension(mm)



Function Show of The Product

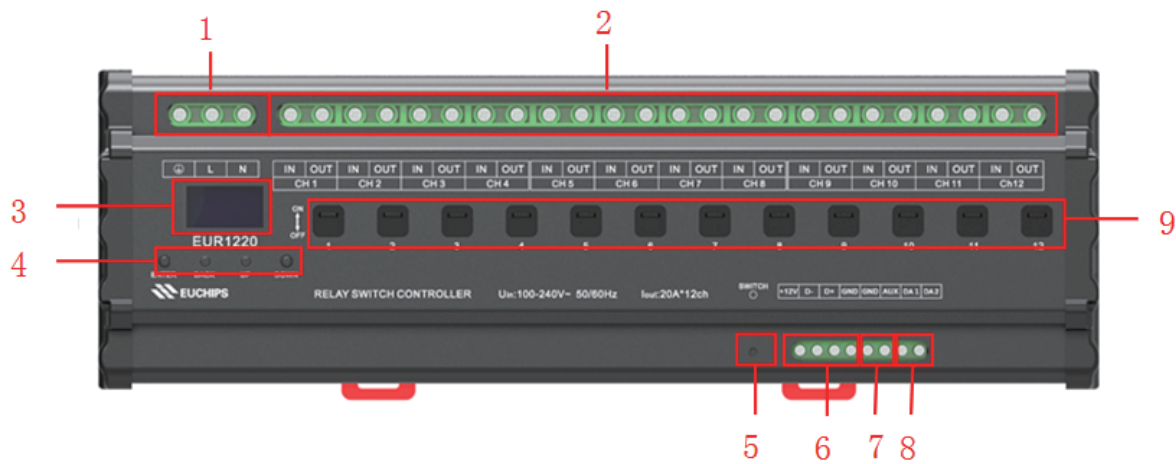


Figure 1

1	AC input port
2	12 relay switch output ports
3	LED display
4	Function button
5	Switch(it is effective under EU-BUS mode), Press 1 time: the device report its own serial number information; Press 3 times continuously: all the channels have output; Press for 4s or more: the device is reset and restarted
6	DMX 512/RDM input port and 12 V output port
7	Input signal of dry contact, used for detecting external signals, and triggering device to response
8	DALI signal input&output port
9	Manual switch

LCD Function

After a successful connection, 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.

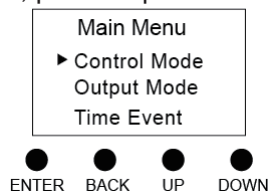


Figure 2

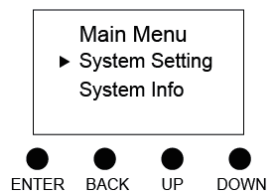


Figure 3

Button	Function
ENTER	Confirm key, confirm the selected state, enter the option to set the state
BACK	Return key, return to the upper menu, exit the option to set the state
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

Control Mode

1. EU-BUS Mode

In the current mode, the output signal is controlled by EU-BUS command, the upper computer can scan the device, and assign the address, read the parameters, and the device can operate according to the instruction of the upper computer.

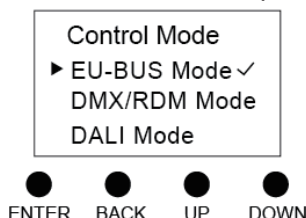


Figure 4

2. DMX 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. The value can be set from 1 to 511. The addresses of each channel are independent of each other, and can be the same or different. 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.

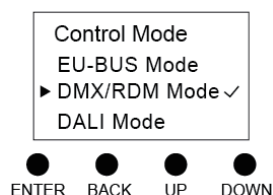


Figure 5

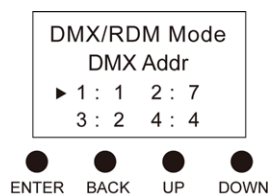
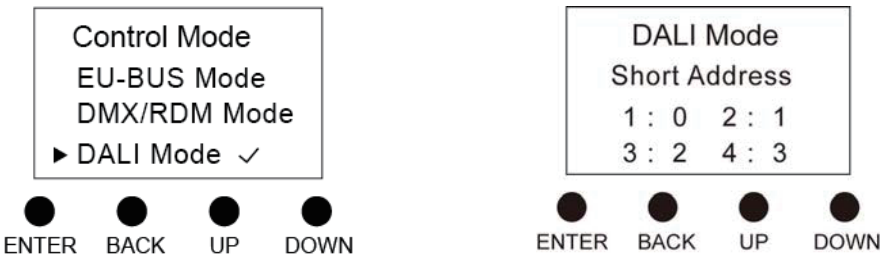


Figure 6

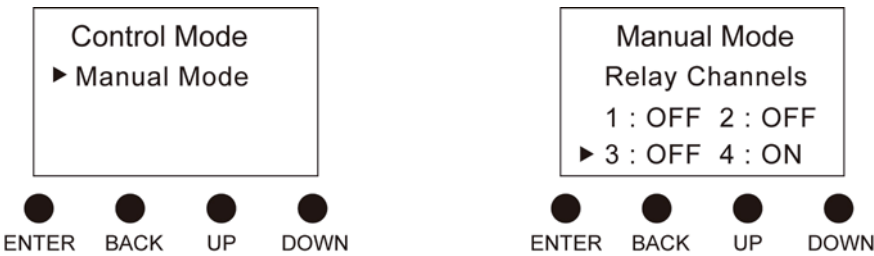
3. DALI Mode

The output signal is controlled by the DALI command in this mode. The address of the DALI mode is defined by the system itself or modified by the host computer. Press “ENTER” to read the short address of 12 channels, The addresses of 12 channels are independent of each other.



3.Manual Mode

In the current mode, you can manually turn on or off the relay switch signal.



Output Mode

1. Fade Time (note1)

In the current mode, select the Fade Time. The range is 0.0-4.0s.

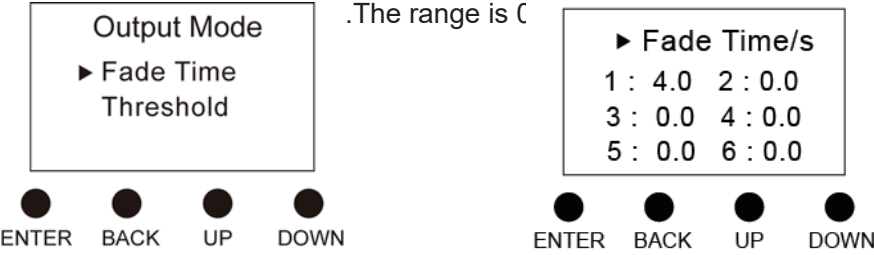
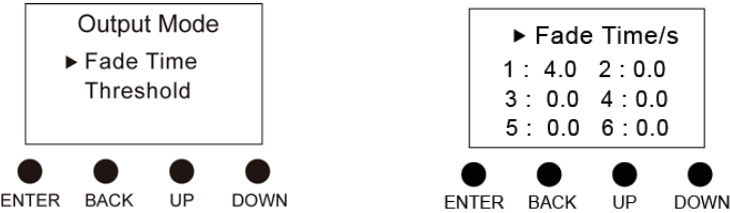


Figure 11

Figure 12

2. Threshold (note2)

You can set the switch threshold for each relay switch channel. When the received brightness value is more than or equal to the threshold value, open the output, or else shut down the output. The setting range of brightness threshold value is 0-100%, corresponding to the brightness level of 0-255.



System Setting

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

1. Time Setting

You can set the current time of the system.

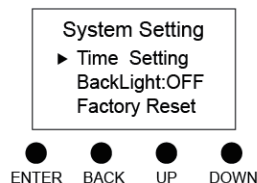


Figure 29



Figure 30

2. Backlight

When the backlight is set to "ON", the display unattended operation over 30s, LCD will enter the clock mode, showing the current date and time. After 60s, the system 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.

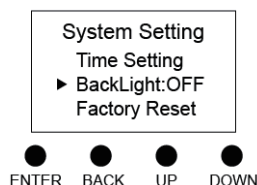


Figure 31

3. Factory Reset

Press "ENTER" to choose whether to reset factory settings.

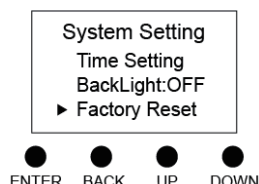


Figure 32

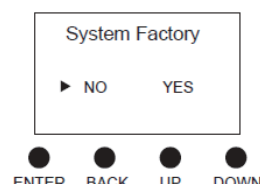


Figure 33

System Info

In this mode, the current system information can be displayed, as follows:

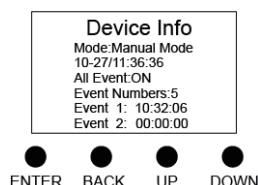


Figure 34

Line 2	control mode
Line 3	current date and time
Line 4	All Event state
Line 5	events number
Others	event name, event status or time

Manual switch

12 channel relay switch signal output, each channel corresponds to a button, you can open or close the relay switch channel output manually.

Wiring Diagram

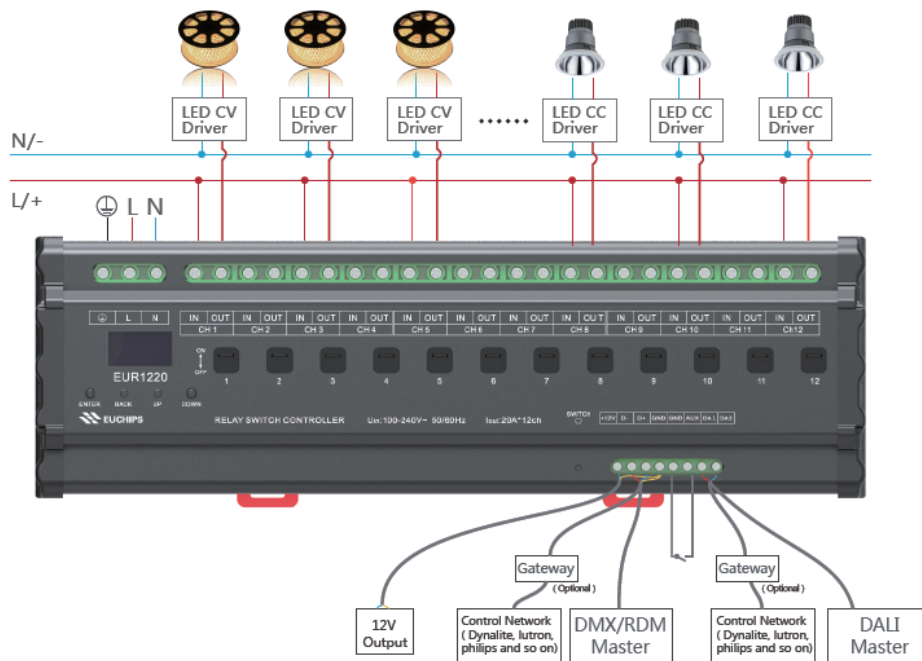


Figure 35

Note 1: Fade Time settings are valid only in DMX/RDM mode.

Note 2: Threshold settings are valid only in DMX/RDM and DALI mode.

EUR1220

继电开关控制器



概述

欢迎使用 EUR1220 继电开关控制器。该系列产品采用先进的微电脑控制技术，解析国际上广泛采用的 DMX-512（1990）/RDM， DALI 标准协议以及自主研发的 EU-BUS 协议，同时输出 12 个回路继电开关信号每路继电开关信号最大可驱动 20A 负载，12 回路一共 240A。另外该设备也可以通过 Dynalite 网关接入 Dynalite 系统(注：Dynalite 商标持有人是飞利浦公司，相关权益由商标持有人拥有，下同)。

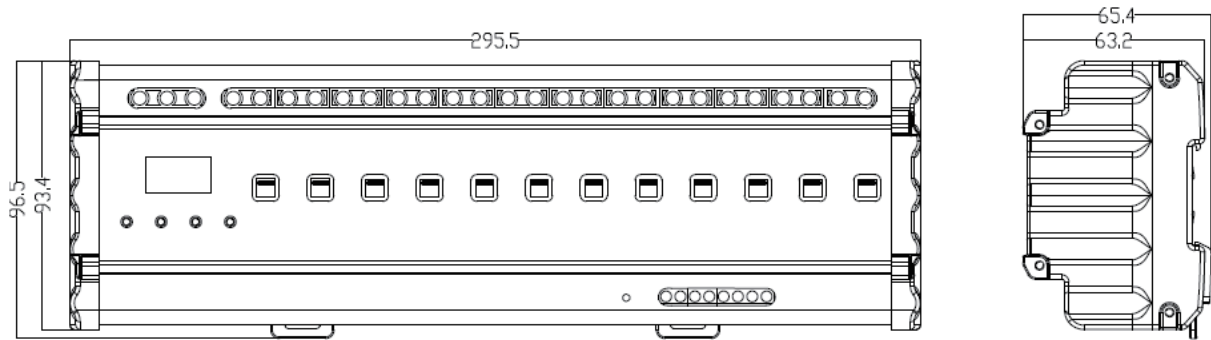
产品特点

- 符合 DMX512（1990）/RDM， DALI IEC62386 国际标准协议以及自主研发的 EU-BUS 协议
- 内置 LCD 液晶显示，用户操作更加便捷
- 输出 12 个回路的继电器开关控制信号，每通道承载电流为 20A
- 可单独给每路设置淡入淡出时间，范围为 0.1-60.9s
- 标准 35mm 导轨外壳，方便安装
- 每个回路设有手动开关，可以开启/关闭继电开关回路的输出
- 系统最多可以保存 8 个事件
- 适用于智能家居、办公楼、学校、体育场馆、建筑外景等场合的照明控制

技术参数

名称	参数
输入电压	100-240VAC 50/60Hz
输入控制信号	DMX512(1990)/RDM, DALI IEC62386, EU-BUS 信号
输出回路最大承载电流	20A*12 路
设备尺寸	295.5*93.4*63.2mm (长*宽*高),标准 35mm 导轨安装
包装尺寸	315*100*68mm (长*宽*高)
毛重量	1100g
工作温度	-20℃ - 40℃

产品尺寸 (mm)



功能简介

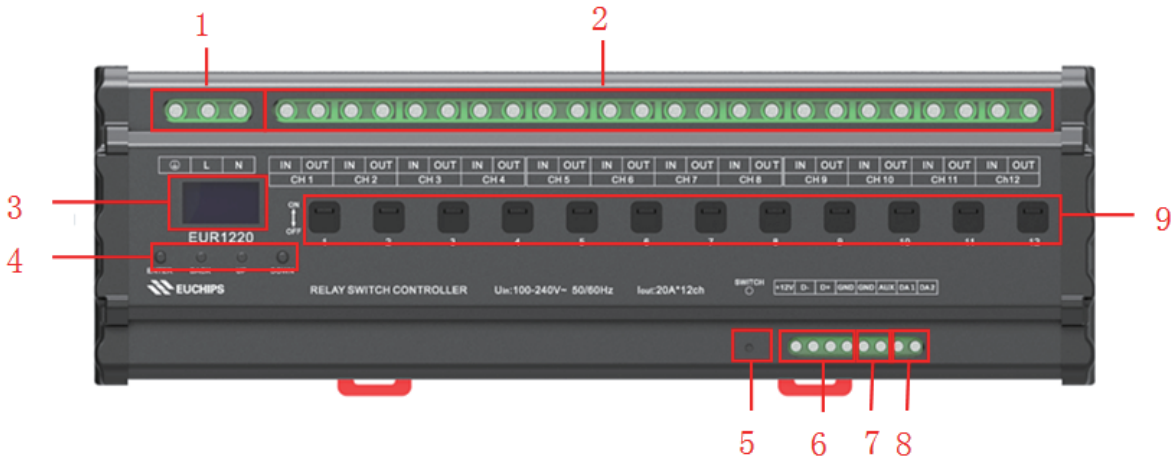


图 1

1	交流电源输入端子
2	12 路继电器开关回路输出端子
3	LED 显示屏
4	功能按键
5	Switch 按键，短按一下，上报地址信息；连按 3 下，所有通道全部工作；长按 4s 以上，设备复位（该功能只在 EU-BUS 模式下有效）
6	DMX512/RDM, EU-BUS 信号输入端子及 12V 输出端子
7	输入开关信号，用于检测外部信号，并触发设备响应（该功能只在 EU-BUS 模式下有效）
8	DALI 信号输入输出端子
9	手动开关

LCD 主界面介绍

设备成功连接以后，将会看到菜单主界面，包括控制模式、输出模式、时间事件、系统设置和系统信息，见图 2 和图 3。LCD 下方按钮按“Enter”键可以确定进入子菜单，按“BACK”返回上一级菜单，按“Up”和“Down”键，光标可以上下移动。

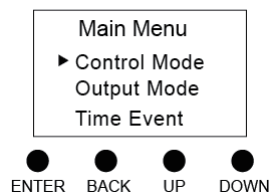


图 2

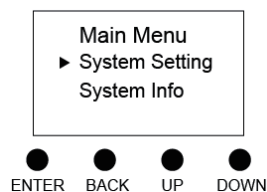


图 3

按键名称	功能
ENTER	确定键，选中光标所在选项，进入该选项
BACK	返回键，返回上级菜单；退出该选项
UP	向上移动光标，改变选项状态；在设置 Threshold, DMX Address, Fade time 时，长按“UP”，设置值将迅速增加
DOWN	向下移动光标，改变选项状态；在设置 Threshold, DMX Address, Fade time 时，长按“DOWN”，设置值将迅速减小

Control Mode（控制模式）

1. EU-BUS Mode（EU-BUS 模式）

在当前模式下，输出信号受 EU-BUS 命令控制，上位机可以扫描设备，并分配地址，读取参数，设备根据上位机的指令进行操作。

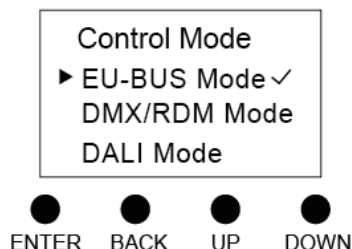


图 4

2. DMX/RDM Mode（DMX/RDM 模式）

在当前模式下，输出信号受 DMX/RDM 控制。

使用 DMX512(1990)协议时，按下“ENTER”可以对每个回路设置 DMX 地址，范围为 1-511。各回路的地址相互独立，可以相同也可以不同，可以连续也可以不连续。给所有通道设置相同的地址，就可以进行成组控制了。

使用 RDM(2009)协议时，上位机可以扫描设备，设置设备的起始地址，并且读取设备的参数。

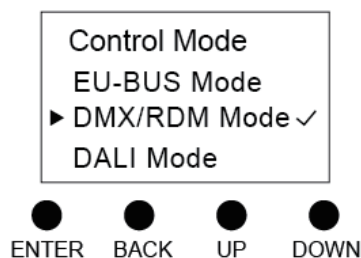


图 5

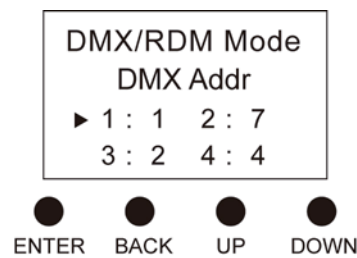


图 6

3. DALI Mode (DALI 模式)

在当前模式下，输出信号受 DALI 命令控制。DALI 模式下的地址由系统自行定义或通过上位机进行修改。按下“ENTER”可以读到 12 个回路的短地址，他们是相互独立的。

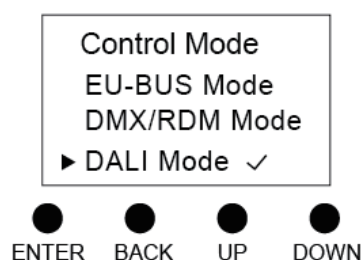


图 7

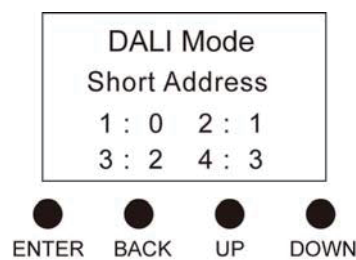


图 8

4. Manual Mode (手动模式)

在当前模式下，可以手动设置开通或关断继电器开关信号。

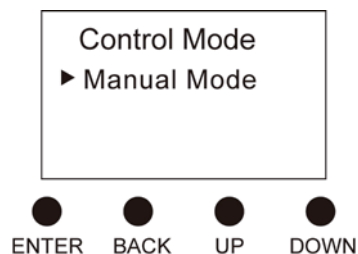


图 9

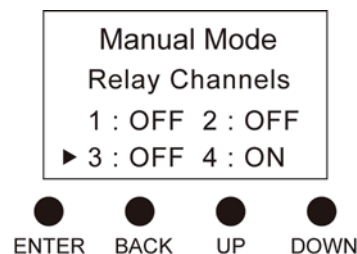


图 10

Output Mode (输出模式)

1. FadeTime (延时设置) (备注 1)

在当前模式下，每个通道都可以设置淡入淡出的时间，设置范围为 0.1-60.9，单位 s。

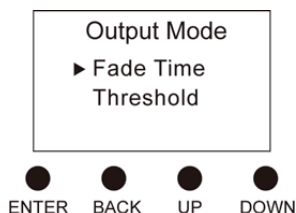


图 11

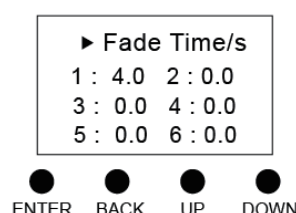


图 12

2. Threshold (阈值设置) (备注2)

每个继电器开关通道都可以设置开关门限，当前接收到的亮度值≥开关门限，则打开输出，否则关闭输出。亮度等级门限值的设置范围为 0-100%，对应 0-255 亮度等级。

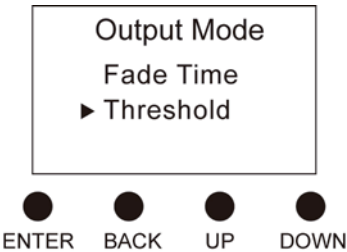


图 13

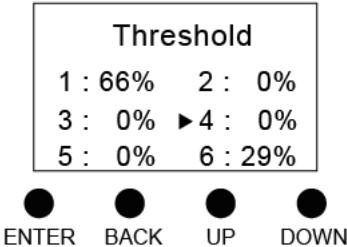


图 14

System Setting (系统设置)

进入系统设置后，可以设置系统当前时间，背光灯的亮灭和恢复出厂设置。

1. Backlight (背光灯)

当背光灯设置为“ON”时，30s 内不对显示屏进行操作，LCD 将进入时钟模式，显示当前日期及时间。再过 60s 后，系统将自动进入睡眠模式，按任意键结束睡眠模式，进入设置状态。当背光灯设置为“OFF”时，显示屏将一直保持在当前设置状态。

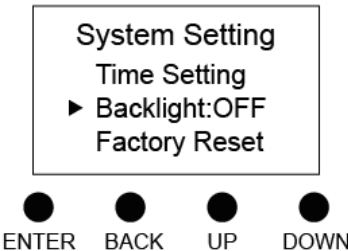


图 31

2. Factory Reset (出厂复位)

按“ENTER”进去后，选择是否恢复出厂设置。

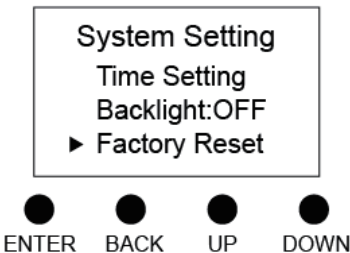


图 32

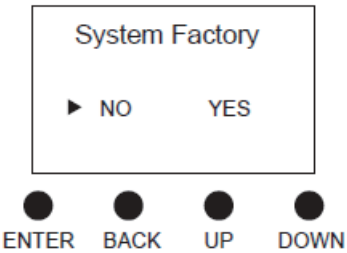


图 33

System Info (系统信息)

在该模式下可以列表显示当前的系统信息，其中具体显示内容如下：

- 第 2 行 控制模式
- 第 3 行 当前日期和时间
- 第 4 行 All Event 状态
- 第 5 行 事件总数
- 以下所有 事件名，事件状态或时间

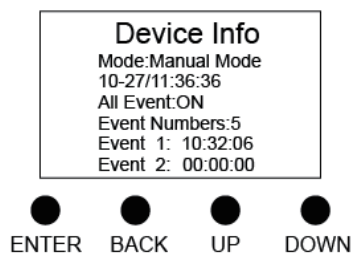


图 34

手动开关功能

12 通道继电器开关信号输出，每通道对应一个按键，可以手动开通或关断继电器开关通道输出。

应用连接图

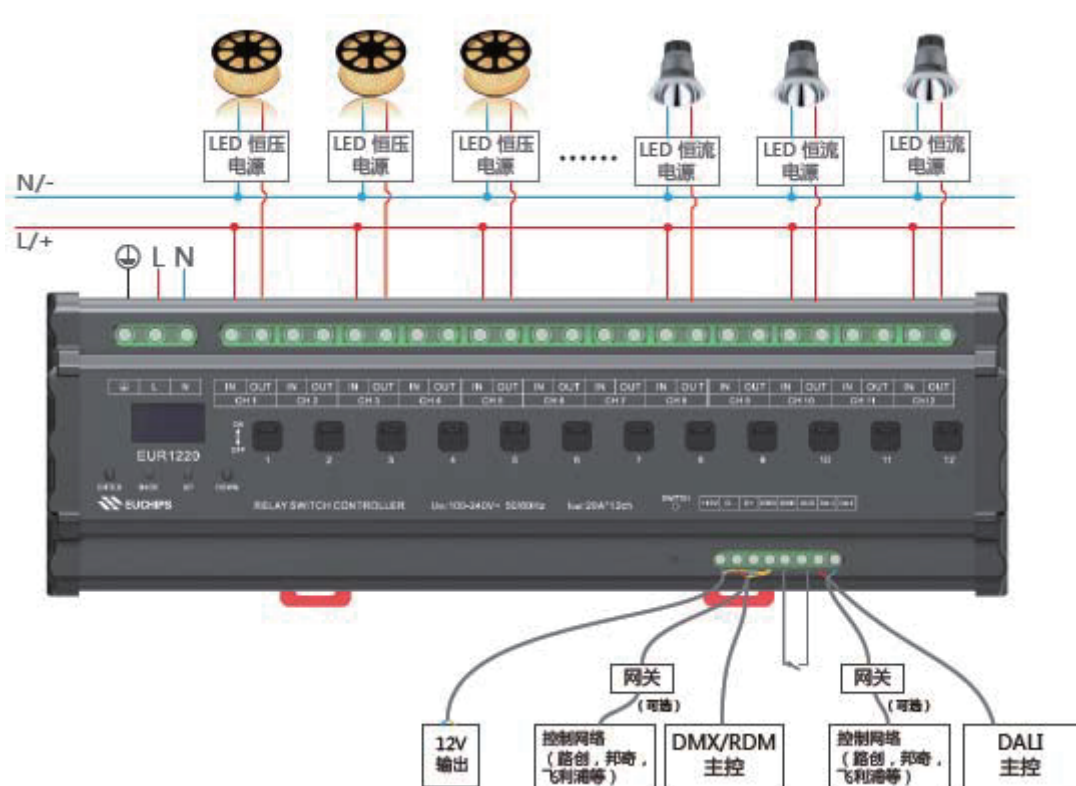


图 35

备注 1: Fade Time 设置只在 DMX/RDM 模式下有效。

备注 2: Threshold 设置只在 DMX/RDM, DALI 模式下有效。