

PX0508-OLED-M
DMX512 Decoder



5 channels output, the maximum current of 8A /ch for RGBWY decoder, up to 960W
OLED Screen and touch button, more convenient operation
8 bit / 16 bit resolution optional
dimming curve:liner, log

Summary

Welcome to use PX series DMX512/RDM decoder & driver. PX series adopt the advanced micro-computer control technology and converted the DMX512,RDM/2009 digital signal widely used in international to the PWM control signal, 1~5 channels output for option and each channel able to achieve 256 or 65536 gradations of controlling, and also it can be used as the connector of PC digital light controller and analog light modulator. It is mainly used for the controlling of buildings & lights applied LED.

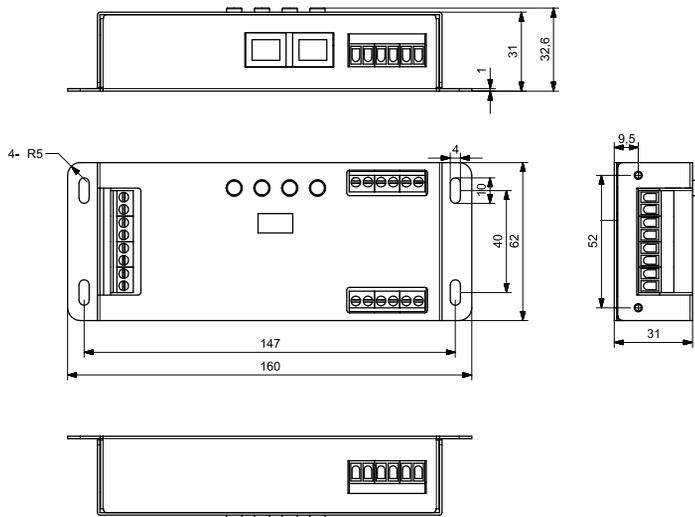
Product Features

- 5 channels output, the maximum current of 8A /ch for RGBWY decoder, up to 960W
- OLED Screen and touch button, more convenient operation
- 27 sence modes built-in, with speed and brightness adjust function
- 5 kinds of optional: DIM, CT, RGB, RGBW, RGBWY
- 2 kinds of DMX ports: T-block, RJ45
- Short-circuit protection, overload protection, over-temperature protection
- Fast self-testing function
- 8 bit / 16 bit resolution optional(master mode support 8bit only)
- dimming curve: liner, log
- Meets DMX512/1990,RDM /2009 protocol
- Supported RDM parameters:
DISC_UNIQUE_BRANCH
DISC_MUTE
DISC_UN_MUTE
DEVICE_INFO
SOFTWARE_VERSION_LABEL
DMX512/RDM_START_ADDRESS
IDENTIFY_DEVICE
MANUFACTURER_LABEL
SUPPORTED_PARAMETERS

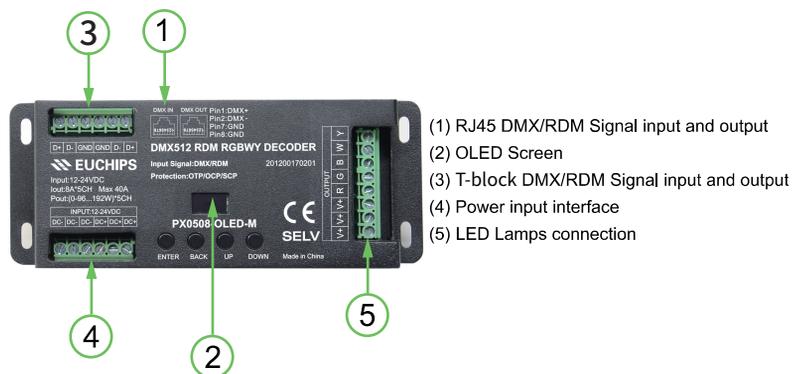
Technical Parameters

Model :	PX0508-OLED-M
Input Signal :	DMX512 1990/RDM 2009
Input Voltage :	12~24V
Output Voltage :	12~24V
Output Current :	8A*5CH MAX. 40A
Output Power :	(0~96W...192W)*5CH MAX. 960W
Control Mode :	DIM/CT/RGB/RGBW/RGBWY
Dimming Curve :	Liner/Log
Grey Level :	8Bit (256 levels) / 16Bit (65536 levels)
Protection :	Short-Circuit / Over Load / Over Temperature
Dimension :	160*62*32.6 mm (L * W * H)
Packing Size :	--*--*-- mm (L * W * H)
G.W. :	322g
Operation Temperature :	- 20 - 50 C
Relative humidity :	20% - 90% RH
Lifetime :	50,000h
Warranty :	5 years

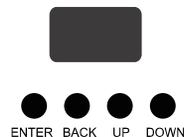
Dimension(mm)



Interface Description

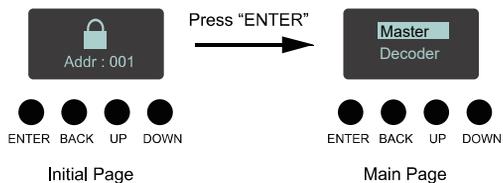


OLED Screen Description

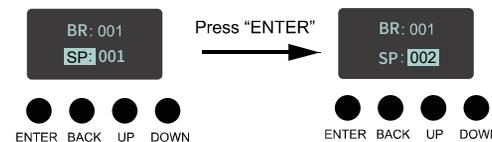
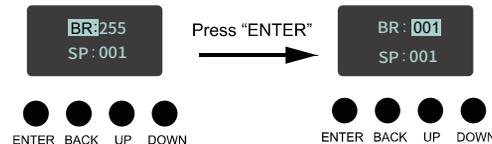
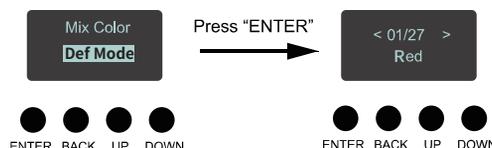
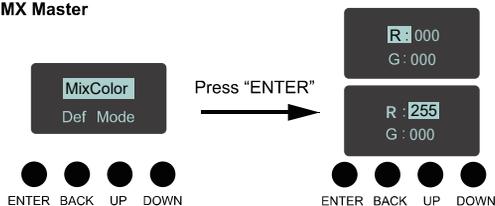


Button Name	Function
Enter	Enter Button (focus on the option menu pointed by the cursor and enter the state of this option menu.
BACK	Back Button, return to the previous menu: exit the state of this option
Up	Move the cursor up, change the state of the option
Down	Move the cursor down: change the state of the option

The product restores the default initial page which shows the current parameter information and working status when power on again. Please press "ENTER" to homepage. If there is no operation in 1 minute, the OLED screen will restore the initial page.



DMX Master



Default Mode (RGB/RGBW/RGBWY)

NO.	Mode	NO.	Mode
1	Red	15	GB Ramp
2	Green	16	RGB Ramp
3	Blue	17	ALL Ramp
4	Yellow	18	RG_Gradient
5	Cyan	19	RB_Gradient
6	Purple	20	GB_Gradient
7	White	21	RGB_Gradient
8	RG Jump	22	ALL_Gradient
9	RB Jump	23	RG_Chase
10	GB Jump	24	RB_Chase
11	RGB Jump	25	GB_Chase
12	ALL Jump	26	RGB_Chase
13	RG Ramp	27	ALL_Chase
14	RB Ramp		

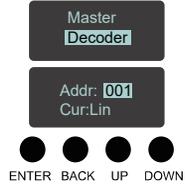
Default Mode (CT)



Default Mode (DIM)



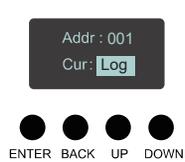
DMX Decord



DMX Address setting

Press "up" or "down" key to set DMX Address

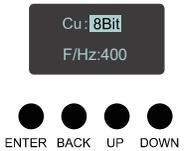
Address : 1-512 adjustable



Dimming Curve setting

Press "up" or "down" key to set dimming curve

Curve : Linear
Log

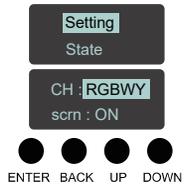


Resolution setting

Press "up" or "down" key to set resolution

Resolution : 8Bit
16Bit

Sys Setting



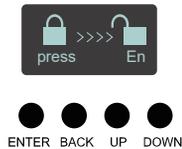
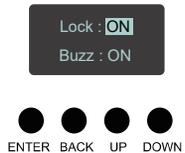
Output setting

Press "up" or "down" key to set output channel

CH : DIM
CT
RGB
RGBW
RGBWY

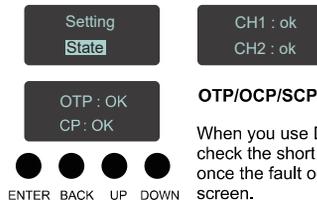


Screen-off settings: On
When the screen-off function is enabled, the screen will automatically turn off if there is no operation within 2 minutes.



Lock : ON
Screen will be locked if unmaned operation for 1 min , press "Enter" key for 3s to unlock

Sys Status



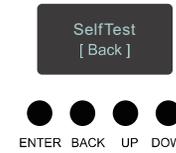
OTP/OCP/SCP Status

When you use DMX decoders after the wiring completed, you can check the short circuit, over current, over load problems in this page once the fault occurs and the "OK" will switch to "Warn" on the screen.
CP: warn indicates a short circuit. After troubleshooting, power off and restart the decoder.

Factory Reset



Self-testing

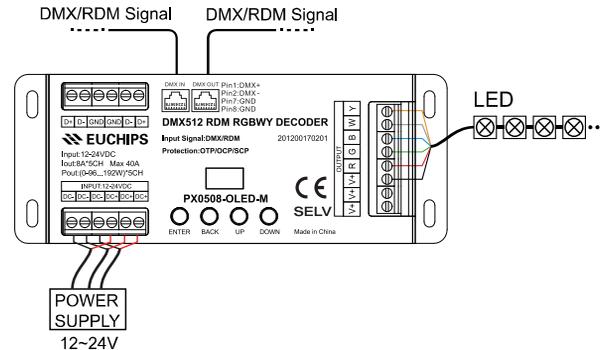


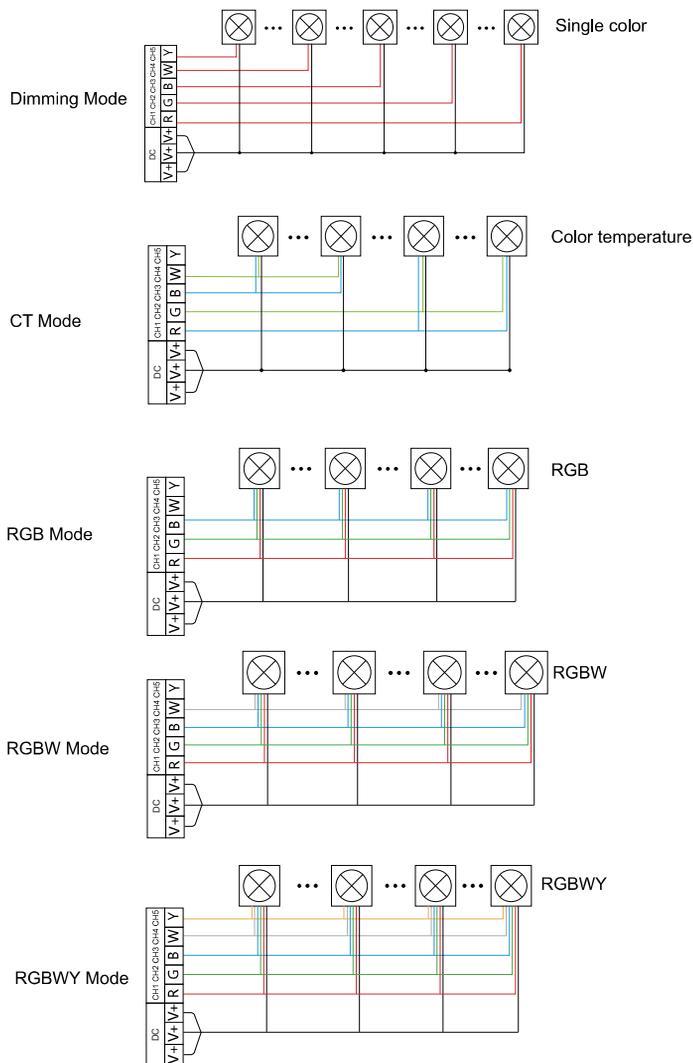
Quick self-testing

Press "BACK" for 3s on any page

Wiring Diagram

Connecting LED lights:

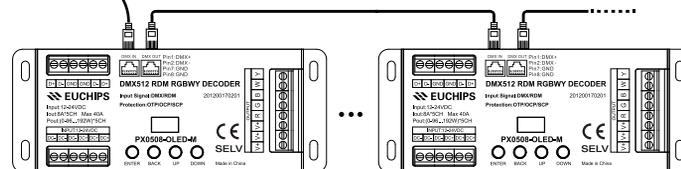




PC

DMX主控

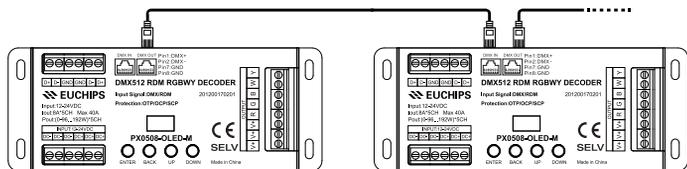
PX0508-OLED-M is equipped with 2 types DMX terminals for users' selection. The following diagram takes RJ45 as an example, the connection method is the same.



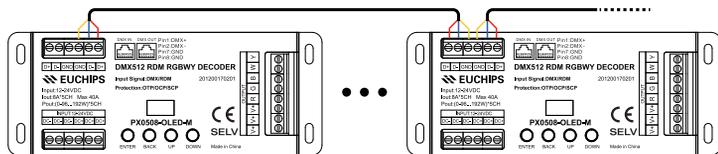
An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

The connection diagram of 2 kinds of DMX/RDM terminals:



RJ45 Connected in parallel



T-block Connected in parallel

Address setting table

Mode	DIM	CCT	RGB	RGBW	RGBY
Address Quantity	1	2	3	4	5
Resolution	8bit	8bit	8bit	8bit	8bit
Channel	1	001	001 Dim	001	001
	2	001	002 CCT	002	002
	3	001	001 Dim	003	003
	4	001	002 CCT	003	004
	5	001	/	003	004

Mode	DIM	CCT	RGB	RGBW	RGBY
Address Quantity	2	4	6	8	10
Resolution	16bit	16bit	16bit	16bit	16bit
Channel	1	001 002	001 002 Dim	001 002	001 002
	2	001 002	003 004 CCT	003 004	003 004
	3	001 002	001 002 Dim	005 006	005 006
	4	001 002	003 004 CCT	005 006	007 008
	5	001 002	/	005 006	007 008

PX0508-OLED-M

DMX512 解码器



5路输出通道，每通道8A，最大功率高达960W
 OLED 屏幕和按键，操作更方便
 8 bit / 16 bit 灰度等级可选
 调光曲线: 线性, 对数

概述

欢迎使用 PX系列 DMX512/RDM解码驱动器。PX系列采用先进的微电脑控制技术，把国际上广泛采用的DMX-512/1990, RDM/2009标准数码控制信号转换成模拟控制信号。可选择1~5路输出通道，每通道可实现256级和65536级控制级别。可用于电脑数码输出调光台与模拟硅箱的连接，建筑和灯饰用LED灯具的控制的使用场合。

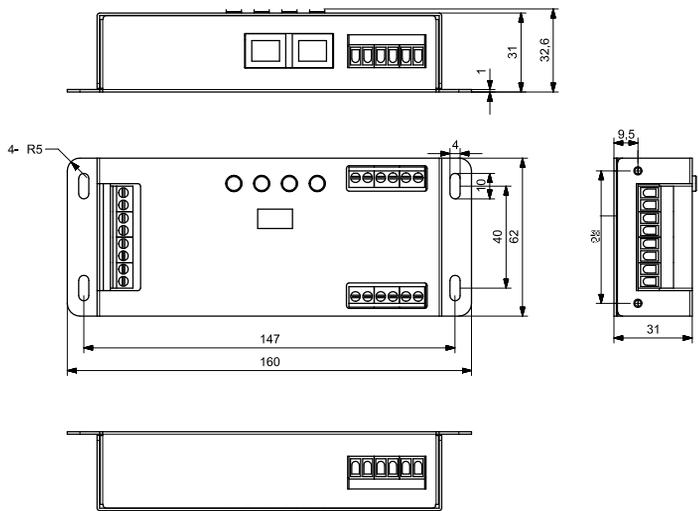
产品特点

- 5路输出通道，每通道最大电流8安培，最大输出功率可达 960W
- OLED 屏幕和按键，操作更方便
- 27种内置场景模式，同时具有速度和亮度调节功能
- 5 种调光方式: 单色, 色温, RGB, RGBW, RGBWY
- 2 种DMX输出端口: T-block, RJ45
- 短路保护，过载保护，过温保护
- 快速自检功能
- 8 bit / 16 bit 灰度等级可选（主控模式只支持8bit）
- 调光曲线: 线性, 对数
- 符合DMX512/1990,RDM /2009 国际标准协议
- 支持RDM参数:
 - DISC_UNIQUE_BRANCH
 - DISC_MUTE
 - DISC_UN_MUTE
 - DEVICE_INFO
 - SOFTWARE_VERSION_LABEL
 - DMX512/RDM_START_ADDRESS
 - IDENTIFY_DEVICE
 - MANUFACTURER_LABEL
 - SUPPORTED_PARAMETERS

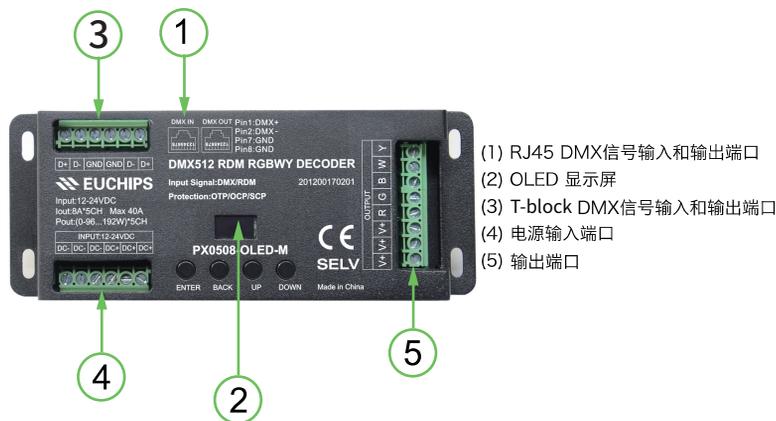
技术参数

产品型号:	PX0508-OLED-M
输入信号:	DMX512 1990/RDM 2009
输入电压:	12-24V
输出电压:	12-24V
输出电流:	8安培*5通道 最大 40A
输出功率:	(0-96W...192W)*5通道 最大 960W
控制模式:	单色/色温/RGB/RGBW/RGBWY
调光曲线:	线性/对数
灰度等级:	8Bit (256 levels) / 16Bit (65536 levels)
保护:	短路/ 过载 / 过温保护
产品尺寸:	160*62*32.6mm (长*宽*高)
包装尺寸:	--*--*-- mm (长*宽*高)
重量:	322克
工作温度:	- 20 - 50 °C
相对湿度:	20% - 90% RH
寿命:	50,000小时

产品尺寸(mm)

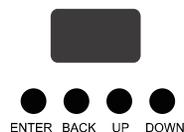


接口说明



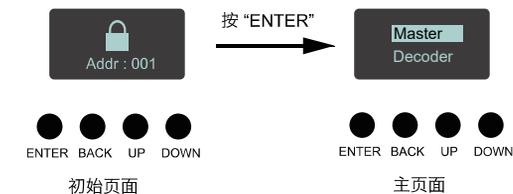
- (1) RJ45 DMX信号输入和输出口
- (2) OLED 显示屏
- (3) T-block DMX信号输入和输出口
- (4) 电源输入端口
- (5) 输出端口

OLED 显示屏说明

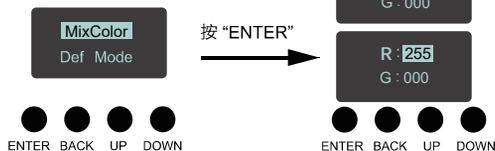


按键名称	功能
Enter	确定键, 选中光标所在选项, 进入该选项
BACK	返回键, 返回上级菜单, 退出该选项
Up	向上移动光标, 改变选项状态, 在设置亮度, 速度, 地址时长按, 设置值迅速增加
Down	向下移动光标, 改变选项状态, 在设置亮度, 速度, 地址时长按, 设置值迅速减小

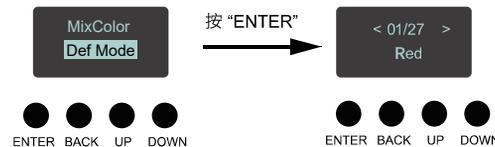
产品每次重新上电和都会恢复到默认的初始页面，初始页面会显示当前设置的参数信息和和工作状态
按下“ENTER”键进入到主页面，若1分钟内无任何操作，OLED屏幕将会恢复到初始页面。



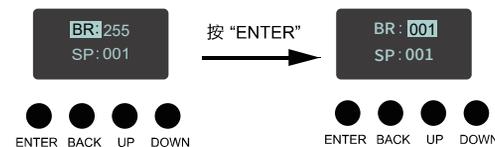
DMX 主控模式



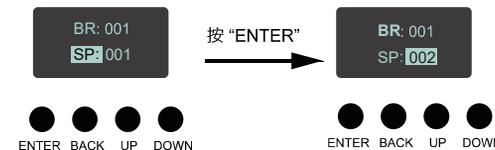
RGBWY 颜色设置
R : 0-255 可调
G : 0-255 可调
B : 0-255 可调
W : 0-255 可调
Y : 0-255 可调



亮度设置
按“up”或“down”键
0-255 可调



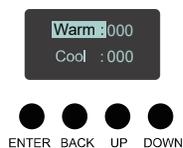
速度设置
按“up”或“down”键
1-100 可调



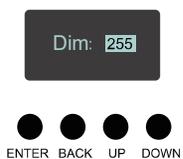
内置模式 (RGB/RGBW/RGBWY)

序号.	模式	序号.	模式
1	红色	15	绿蓝忽明忽暗
2	绿色	16	红绿蓝忽明忽暗
3	蓝色	17	整体忽明忽暗
4	黄色	18	红绿渐变
5	青色	19	红蓝渐变
6	紫色	20	绿蓝渐变
7	白色	21	红绿蓝渐变
8	红绿跳变	22	整体渐变
9	红蓝跳变	23	红绿追逐
10	绿蓝跳变	24	红蓝追逐
11	红绿蓝跳变	25	绿蓝追逐
12	整体跳变	26	红绿蓝追逐
13	红绿忽明忽暗	27	整体追逐
14	红蓝忽明忽暗		

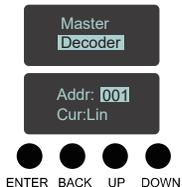
内置模式(色温)



内置模式(单色)



DMX 解码器模式



DMX 地址设置

按“up”或“down”键可以设置 DMX地址

地址：1-512 可调



调光曲线设置

按“up”或“down”键可以设置调光曲线

曲线：线性
对数

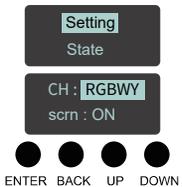


灰度等级设置

按“up”或“down”键可以设置灰度等级

Resolution：8Bit
16Bit

系统设置



输出通道设置

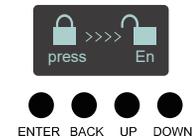
按“up”或“down”键能设置输出通道模式

CH：单色
色温
RGB
RGBW
RGBWY



熄屏设置: 打开

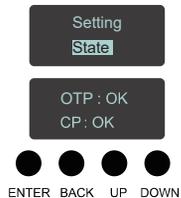
当息屏打开时, 若在2分钟内无任何操作, 屏幕将自动息屏



屏幕锁: 打开

当屏幕锁打开时, 若在1分钟内无任何操作, 屏幕将自动被锁定。
长按“Enter”键3秒钟解锁

系统状态

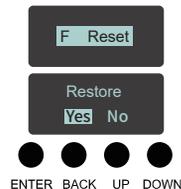


短路/过流/过载保护状态显示

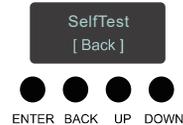
当解码器接线完成开始使用时, 若出现工作异常, 可进入该页面查看是否有短路, 过流, 过载情况, 如果有, 屏幕上的“OK”将会切换成“warn”。

CP:warm时表示短路, 故障排除后需断电重启解码器。

恢复出厂设置



自检功能

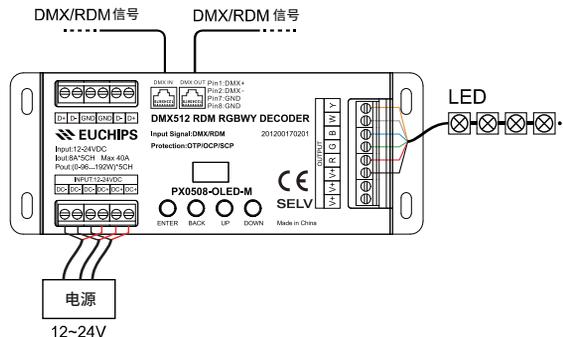


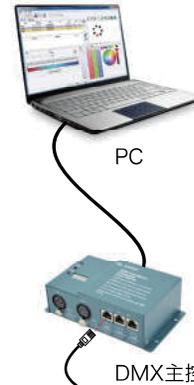
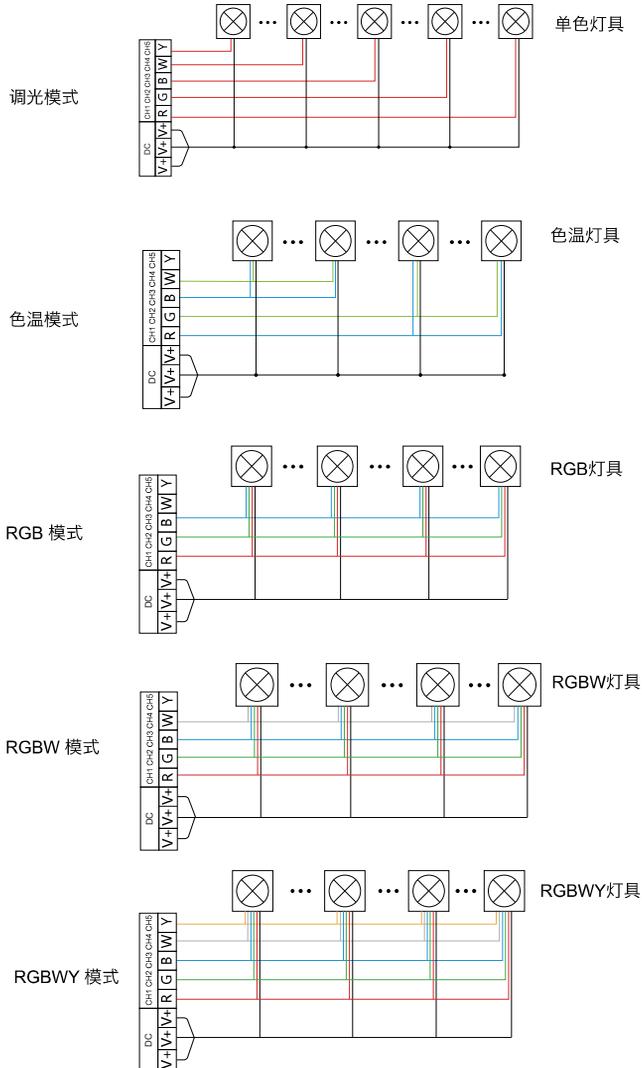
快速自检功能

长按“BACK”键3秒钟

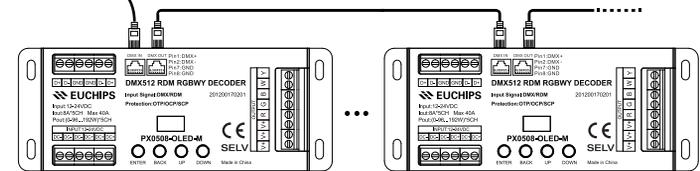
接线图

连接LED灯具:





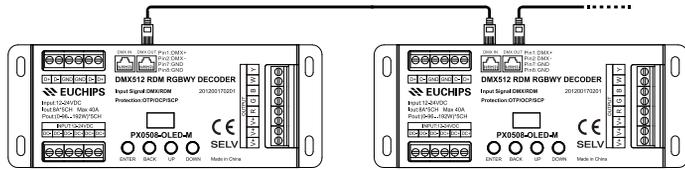
PC
DMX512解码器/主控器
PX0508-OLED-M 设计了两种DMX端子的用户选择, 以下是RJ45的连接图, 连接方式也是同样的



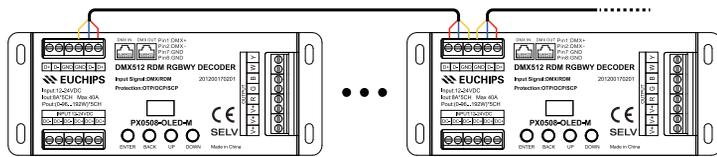
当超过32个解码器连接时, 需要一个放大器, 信号放大不应超过5倍。

如果由于较长的信号线或不良线路质量而产生反冲效应, 请尝试在每一组的结束连接0.25 w 90 - 120Ω终端电阻器

两种DMX端子的连接方式:



RJ45 连接示意图



端子 连接示意图

地址设定列表

模式	DIM	CCT	RGB	RGBW	RGBY
地址数量	1	2	3	4	5
分辨率	8bit	8bit	8bit	8bit	8bit
通道	1	001	001 Dim	001	001
	2	001	002 CCT	002	002
	3	001	001 Dim	003	003
	4	001	002 CCT	003	004
	5	001	/	003	004

模式	DIM	CCT	RGB	RGBW	RGBY
地址数量	2	4	6	8	10
分辨率	16bit	16bit	16bit	16bit	16bit
通道	1	001 002	001 Dim 002	001 002	001 002
	2	001 002	003 CCT 004	003 004	003 004
	3	001 002	001 Dim 002	005 006	005 006
	4	001 002	003 CCT 004	005 006	007 008
	5	001 002	/	005 006	007 008