

PX1205-OLED

DMX512 Decoder&Master



12 channels output, the maximum current of 5A /ch for RGBWY decoder, up to 1440W
 OLED Screen and touch button, more convenient operation
 Can be used as stand alone DMX Master controller
 8 bit / 16 bit resolution optional
 Multiple dimming curve: (0.1~9.9), 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, 1~12 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.

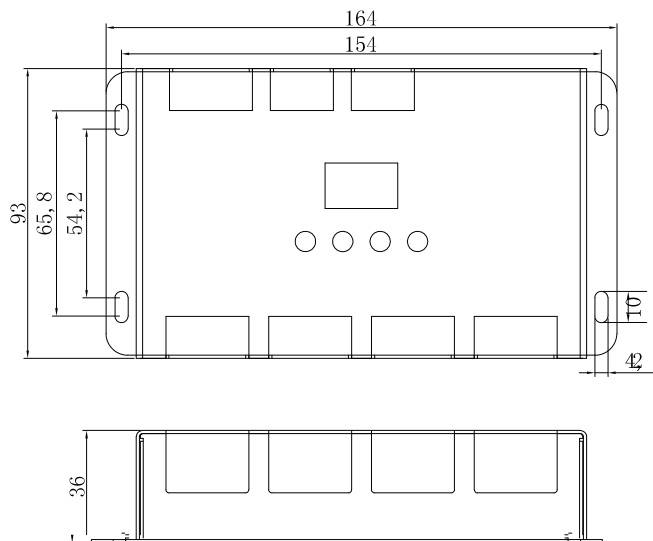
Product Features

- 12 channels output, the maximum current of 5A /ch for RGB decoder, up to 1440W
- Can be used as stand alone DMX Master controller
- OLED Screen and touch button, more convenient operation
- 27 sence modes built-in, with speed and brightness adjust function
- 3 kinds of optional: DIM, CT, RGB
- 2 kinds of DMX ports: Green teminal, RJ45
- Short-circuit protection, overload protection, over-temperature protection
- Fast self-testing function
- 8 bit / 16 bit resolution optional (master mode support 8 bit only)
- Multiple dimming curve: (0.1~9.9), 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

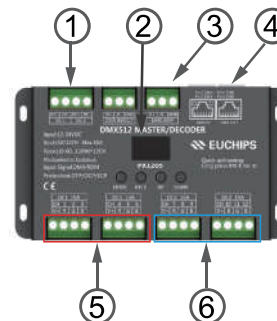
Technical Parameters

Model :	PX1205-OLED
Input Signal :	DMX512 1990/RDM 2009
Input Voltage :	12~24V
Output Voltage :	12~24V
Output Current :	5A*12CH MAX. 60A
Output Power :	(0~60W...120W)*12CH MAX. 1440W
Control Mode :	DIM/CT/RGB
Dimming Curve :	0.1~9.9/Liner/Log
Grey Level :	8Bit (256 levels) / 16Bit (65536 levels)
Protection :	Short-Circuit / Over Load / Over Temperature
Dimension :	164*93*36 mm (L * W * H)
Packing Size :	184* 104*42 mm (L * W * H)
G.W. :	432 g
Operation Temperature :	- 20 - 50 °C
Relative humidity :	20% - 90% RH
Lifetime :	50,000h
Warranty :	5 years

Dimension(mm)

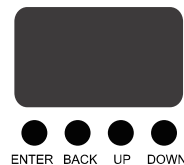


Interface Description



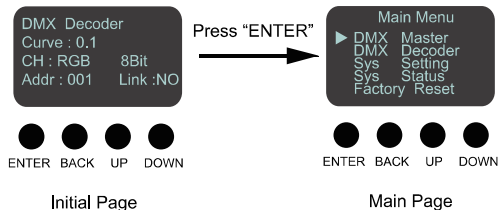
- (1) Power Input interface (DC1, DC2)
- (2) OLED Screen
- (3) Green terminal (with signal amplifier function)
- (4) RJ45 signal input and output
- (5) Green terminal LED Lamps connection (by DC1)
- (6) Green terminal LED Lamps connection (by DC2)

OLED Screen Description

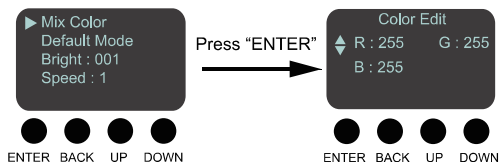


Button Name	Function
Enter	Enter Button (focus on the option menu pointed by the cursor and enter the state of this option menu.
BACK	Back Button, return to the previous menu: exit the state of this option
Up	Move the cursor up, change the state of the option
Down	Move the cursor down: change the state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

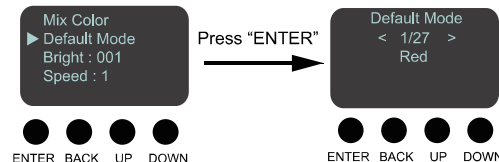


DMX Master



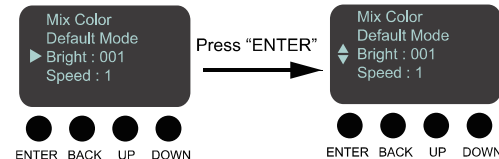
Mix color

RGB Brightness setting
R : 0-255 adjustable
G : 0-255 adjustable
B : 0-255 adjustable



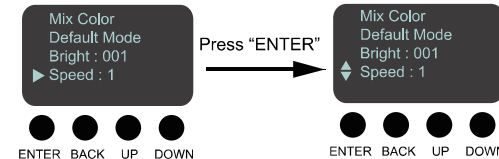
Default Mode (RGB)

Built-in mode : 1-27 modes for option, all 27 modes



Bright

Press "up" or "down" key
0-255 adjustable



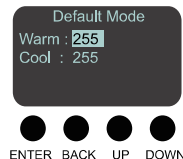
Speed

Press "up" or "down" key
1-100 adjustable

Default Mode (RGB)

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		

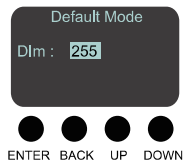
Default Mode (CT)



CT Brightness setting

Press "up" or "down" key
Warm : 0-255 adjustable
Cool : 0-255 adjustable

Default Mode (DIM)



DIM Brightness setting

Press "up" or "down" key
Dim : 0-255 adjustable

DMX Decord

Addr : 001
Curve : 0.1
Res : 8Bit

ENTER BACK UP DOWN

DMX Address setting

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

Address : 1-511 adjustable

Addr : 001
Curve : 0.1
Res : 8Bit

ENTER BACK UP DOWN

Dimming Curve setting

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

Curve : 0.1~9.9

Linear
Log

Addr : 001
Curve : 0.1
Res : 8Bit

ENTER BACK UP DOWN

Resolution setting

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

Resolution : 8Bit
16Bit

Sys Setting

CH : RGB
Screen : ON
Lock : OFF
Buzzer : ON

ENTER BACK UP DOWN

CH : RGB
Screen : ON
Lock : OFF
Buzzer : ON

ENTER BACK UP DOWN

Output setting

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

CH : DIM
CT
RGB
RGBW
RGBWY



Press Enter for 3s

ENTER BACK UP DOWN

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

Sys Status

OTP : OK
OCP/SCP : OK

ENTER BACK UP DOWN

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 "Warning" on the screen.

Factory Reset

Restore To Factory
Setting ?
Yes No
[Enter] [Back]

ENTER BACK UP DOWN

Self -testing

Self test
Press [Back] to exit

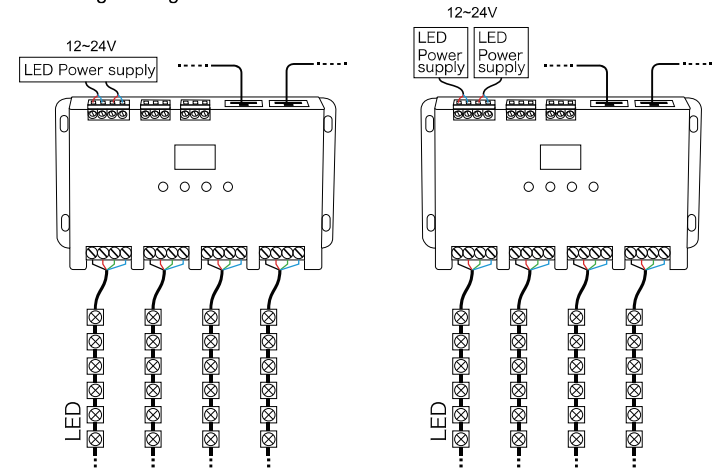
ENTER BACK UP DOWN

Quick self-testing

Press "BACK" for 3s

Wiring Diagram

Connecting LED lights:



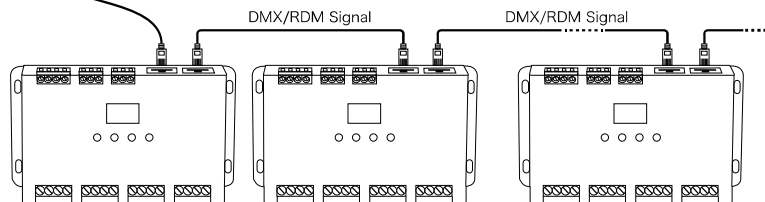


PC



DMX主控

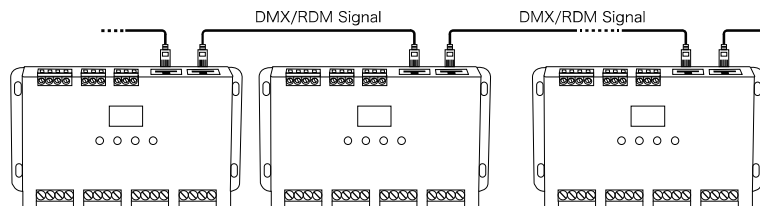
PX1205-OLED is equipped with 2 types DMX terminals for users' selection. The following diagram takes RJ45 as an example, same connecting method for Green terminal.



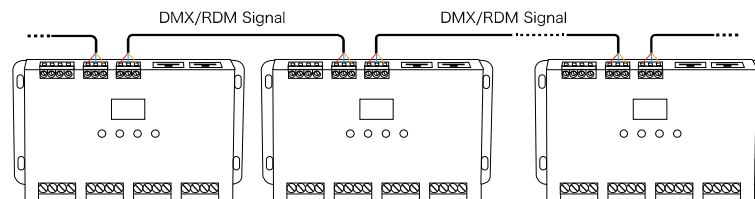
An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

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



Green terminal connected in parallel

Address setting table

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

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

PX1205-OLED

DMX512 解码器/主控器



12路输出通道，每通道5A，最大功率高达1440W
OLED 屏幕和按键，操作更方便
具有解码器和主控切换的功能
8 bit / 16 bit 灰度等级可选
多种调光曲线: (0.1~9.9), 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1~12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

- 12路输出通道，每通道最大电流5安培，最大输出功率可达 1440W
- 具有解码器和主控切换的功能
- 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
- 3 种调光方式: 单色, 色温, RGB
- 2 种DMX输出端口: 绿色端子, 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）
- 多种调光曲线: (0.1~9.9), 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

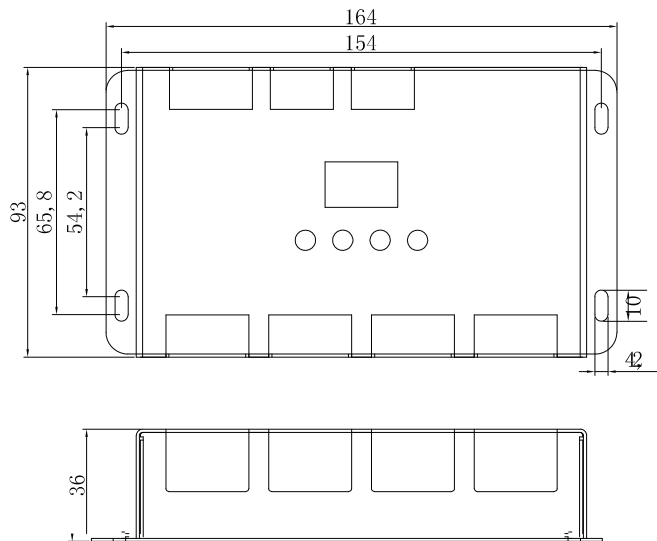
MANUFACTURER_LABEL

SUPPORTED_PARAMETERS

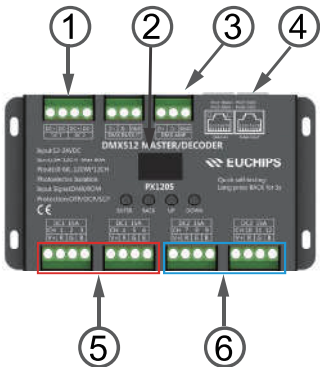
技术参数

产品型号：	PX1205-OLED
输入信号：	DMX512 1990/RDM 2009
输入电压：	12~24V
输出电压：	12~24V
输出电流：	5安培*12通道 最大. 60A
输出功率：	(0~60W...120W)*12通道 最大. 1440W
控制模式：	单色/色温/RGB
调光曲线：	0.1~9.9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：	164*93*36 mm (长 * 宽 * 高)
包装尺寸：	184*104*42 mm (长 * 宽 * 高)
重量：	432克
工作温度：	-20 - 50 ℃
相对湿度：	20% - 90% RH
寿命：	50,000小时
质保：	5年

产品尺寸(mm)

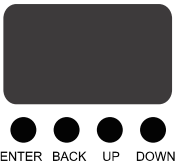


接口说明



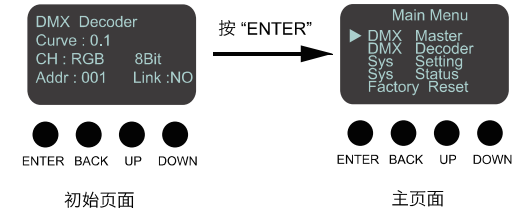
- (1) 电源输入端口 (DC1, DC2)
- (2) OLED 显示屏
- (3) 绿色端子信号输入和输出端口
- (4) RJ45信号输入和输出端口
- (5) 输出端口 (由DC1控制)
- (6) 输出端口 (由DC2控制)

OLED 显示屏说明

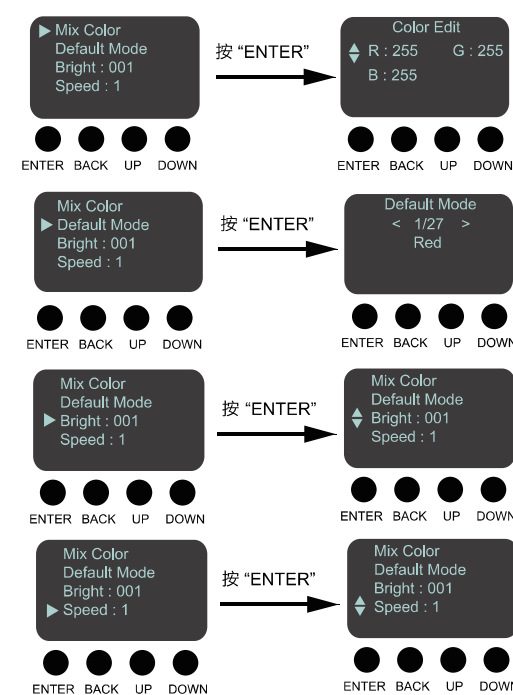


按键名称	功能
Enter	确定键, 选中光标所在选项, 进入该选项
BACK	返回键, 返回上级菜单, 退出该选项
Up	向上移动光标, 改变选项状态, 在设置亮度, 速度, 地址时长按, 设置值迅速增加
Down	向下移动光标, 改变选项状态, 在设置亮度, 速度, 地址时长按, 设置值迅速减小

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。



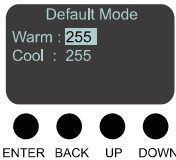
DMX 主控模式



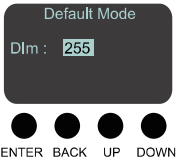
内置模式 (RGB)

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		

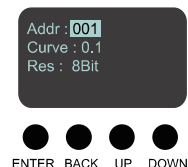
内置模式(色温)



内置模式 (单色)



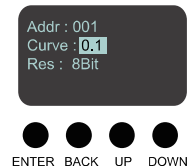
DMX 解码器模式



DMX 地址设置

按“up” or “down” 键可以设置 DMX地址

地址：1-511 可调

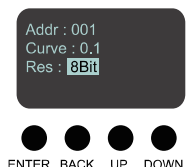


调光曲线设置

按“up” or “down” 键可以设置调光曲线

曲线：0.1~9.9

线性
对数

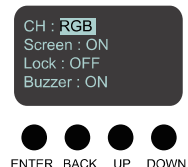


灰度等级设置

按“up” or “down”键可以设置灰度等级

Resolution：8Bit
16Bit

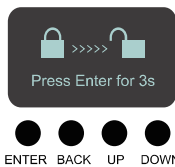
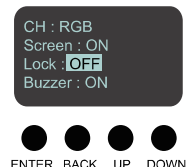
系统设置



输出通道设置

按“up” or “down” 键能设置输出通道模式

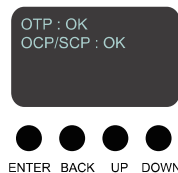
CH：单色
色温
RGB



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

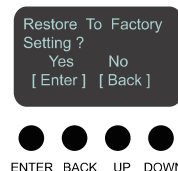
系统状态



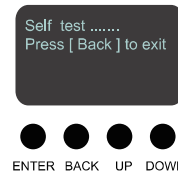
短路/过流/过载保护状态显示

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“Warning”。

恢复出厂设置



自检功能

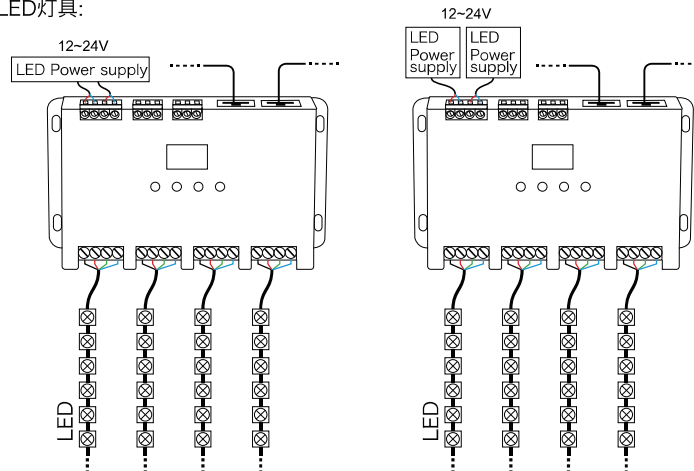


快速自检功能

长按“BACK”键3秒钟

接线图

连接LED灯具:



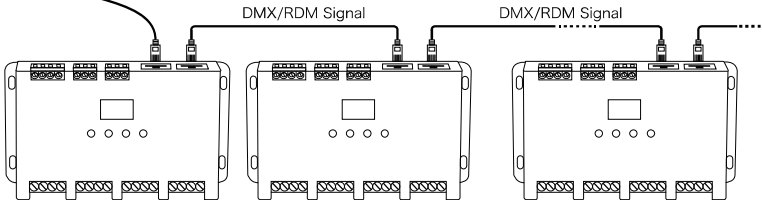


PC



DMX主控

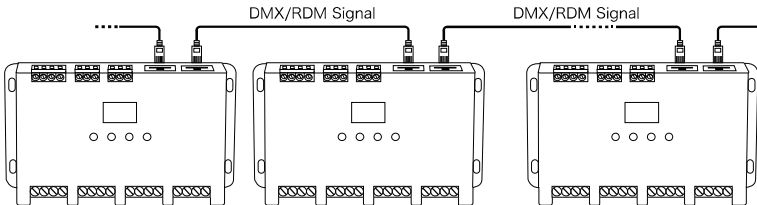
PX1205-OLED 设计了两种DMX端子供用户选择。
以下是RJ45的连接图，绿色端子的连接方式也是同样的



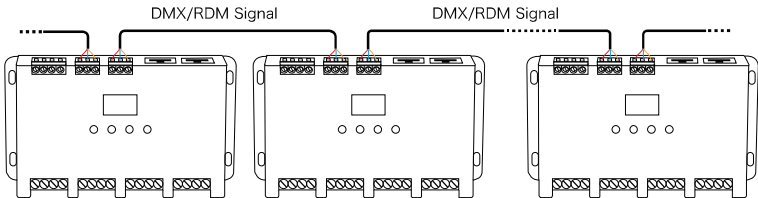
当超过32个解码器连接时，需要一个放大器，信号放大不应超过5倍。

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端子连接方式



RJ45 连接示意图



绿色端子连接示意图

地址设定列表

Mode		DIM	CT	RGB	RGBW	RGBY
Address Quantity		1	2	3	4	5
Resolution		8bit	8bit	8bit	8bit	8bit
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

Mode		DIM	CT	RGB	RGBW	RGBY
Address Quantity		2	4	6	8	10
Resolution		16bit	16bit	16bit	16bit	16bit
Channel	1	001 002	001 002	001 002	001 002	001 002
	2	001 002	003 004	003 004	003 004	003 004
	3	001 002	001 002	005 006	005 006	005 006
	4	001 002	003 004	005 006	007 008	007 008
	5	001 002	003 004	005 006	007 008	009 010