

## PX24601 [产品代码:]

### Summary

DMX-SPI signal decoder converts DMX512 into SPI(TTL) digital signal, which can control most of the signals in the market.LED pixel lamps, DMX digital control console can control each channel of LED lamps to achieve 0-100% dimming or edit various change effects.

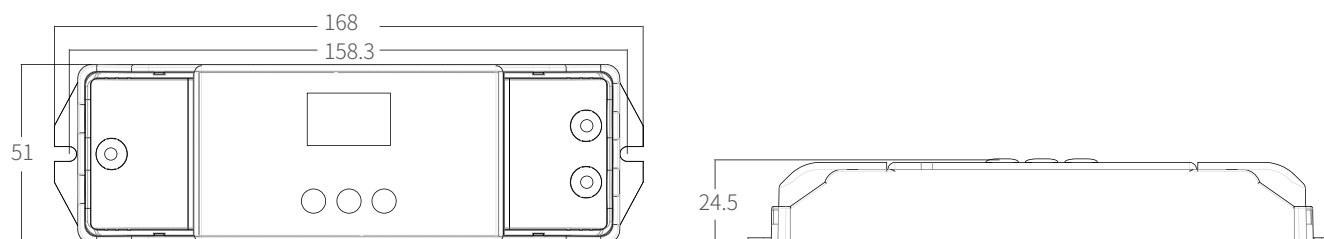
PX24601 decoder is equipped with humanized display screen design, which can easily select and control IC type and RGB sequence of lamps. With 11 change modes, it can also be used as a simple SPI controller.



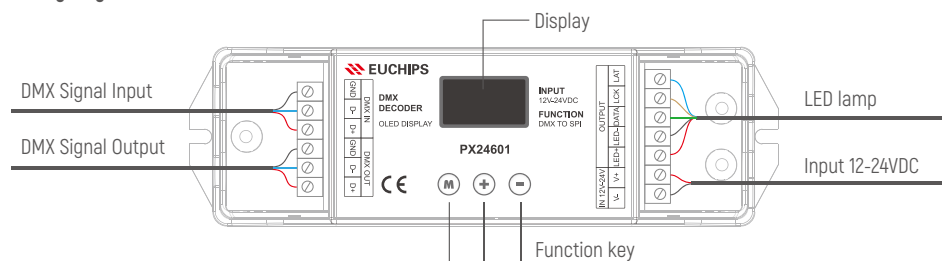
### Technical Paramaters

| Model            | PX24601         |                     |             |
|------------------|-----------------|---------------------|-------------|
| Working voltage  | 12-24VDC        | Working temperature | -20 C ~50 C |
| consumed power   | <1W             | Product size (mm)   | 167*51*24.5 |
| Input signal     | DMX512          | Gross weight (g)    | 105         |
| output signal    | SPI             |                     |             |
| Self test mode   | 11              |                     |             |
| Control quantity | 170 Pixel point |                     |             |

### Size(mm)

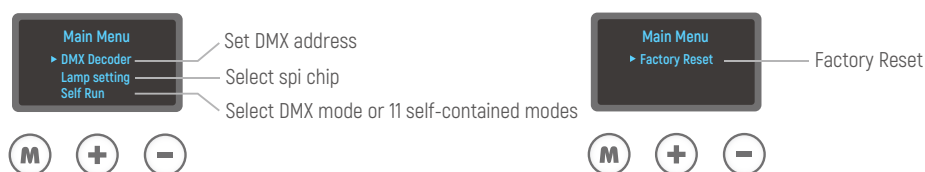


### Wiring diagram

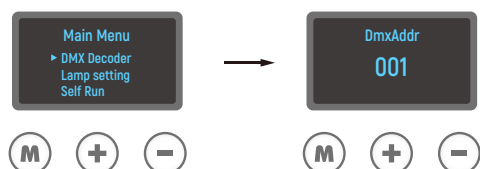


### Display screen interface description:

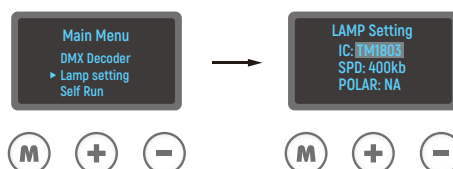
1. Press the M key long to enter the main interface.



1.1 Set DMX address

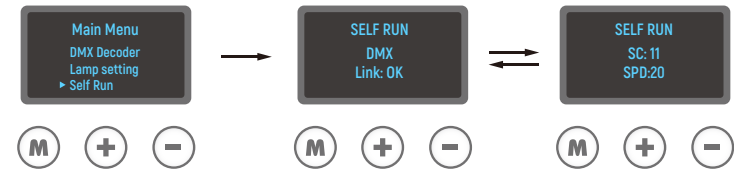


1.2 Select spi chip

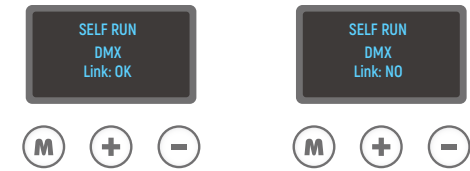


1.3 Select DMX mode or 11 self-contained modes

1.3.1 Press m to enter Self Run, or to switch DMX mode or 11 self-changing modes



1.3.2 Link: OK is displayed when DMX signal is connected successfully, Link: NO; is displayed when DMX signal is not connected;



1.3.3 In the self-contained mode, short press+or-adjust mode, long press+or-adjust mode effect speed.



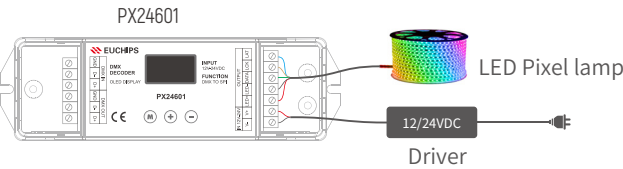
Change pattern list

| Serial number | Mode effect                  | Serial number | Mode effect           | Serial number | Mode effect               | Serial number | Mode effect               |
|---------------|------------------------------|---------------|-----------------------|---------------|---------------------------|---------------|---------------------------|
| 1             | Red, green and blue gradient | 4             | Blue Gradient         | 7             | Blue and Green Chase      | 10            | Colorful Gradient         |
| 2             | Green Gradient               | 5             | Blooming and Colorful | 8             | Red and Green Chase       | 11            | Red, Green and Blue Chase |
| 3             | Red Gradient                 | 6             | Green and Red Chase   | 9             | Red, green and blue Chase |               |                           |

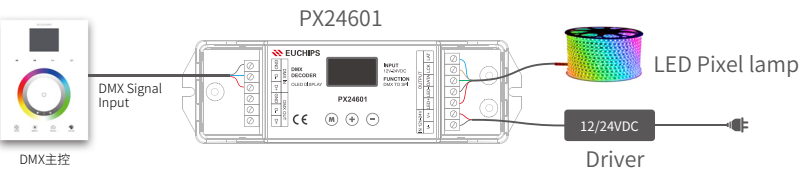
Connection

| Connection mode | Signal line       | Support chip model                                                                                                                             |
|-----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 1<br>DATA         | TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903<br>UCS2909, UCS2912, WS2811(WS2811B), WS2812, WS2812B, GS2806(BGR), SM16703 |
|                 | 2<br>DATA CLK     | LPD6803, LPD1101, D705, UCS6909, UCS6912                                                                                                       |
|                 | 3<br>DATA CLK LAT | 74HC595, 6B595, MB15026, DM134, ZQ9712                                                                                                         |

1.PX24601 Connection

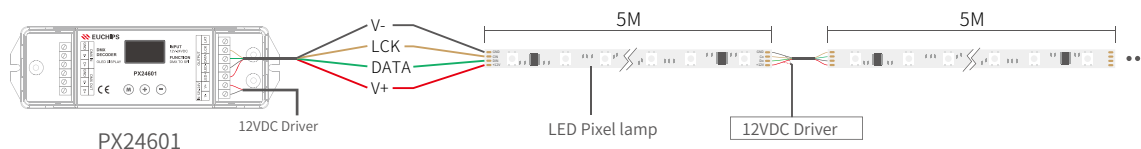


2.DMX Connection

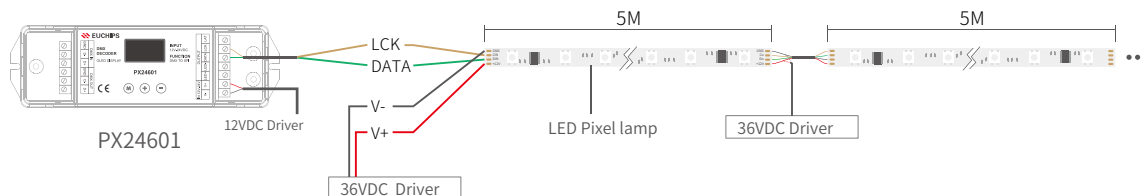


## 3.Pixel lamp bar connection diagram:

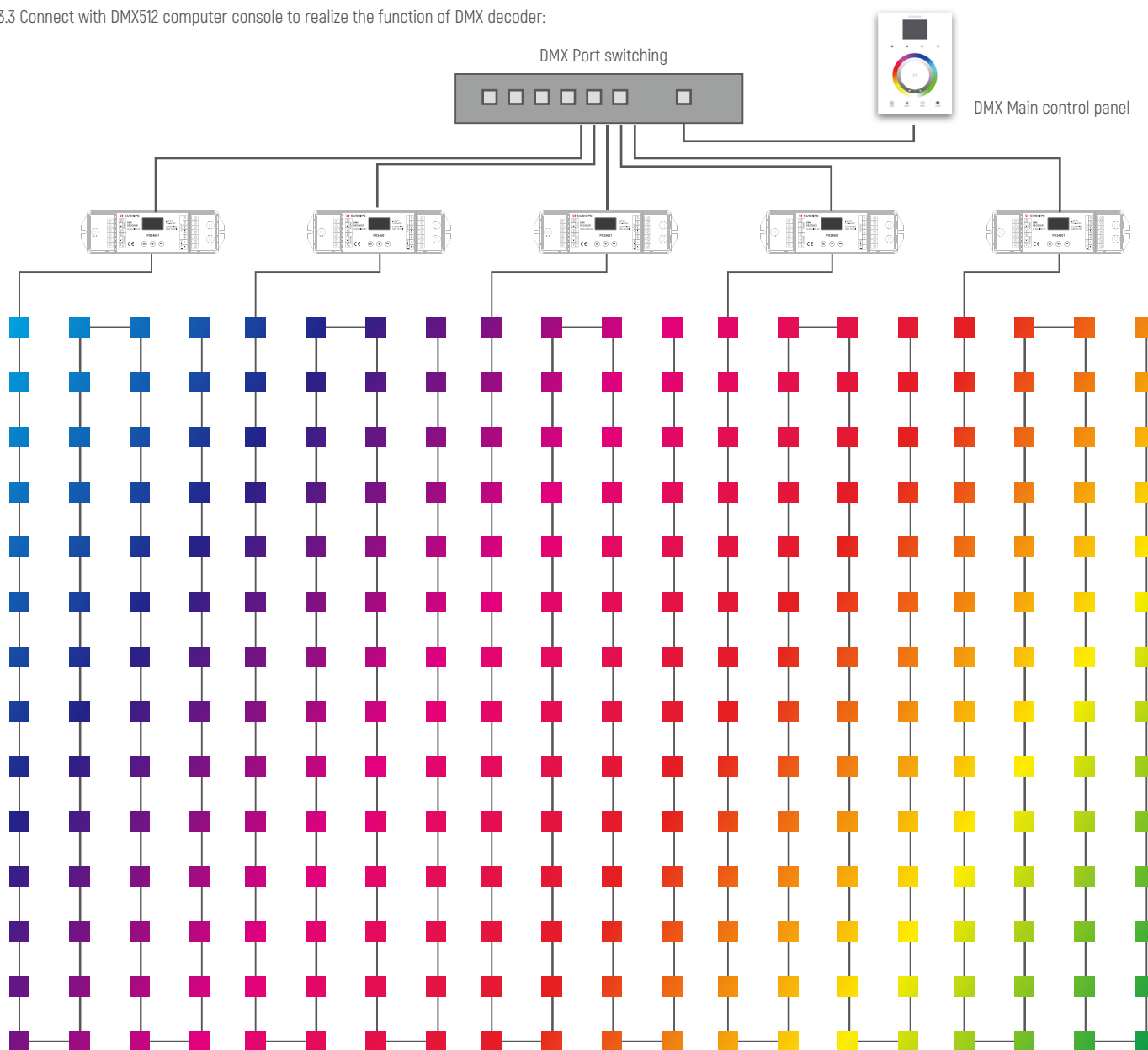
### 3.1 General Connection Method



### 3.2 Special connection methods, lamps and controllers use different operating voltages.



### 3.3 Connect with DMX512 computer console to realize the function of DMX decoder:



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概述

DMX-SPI信号解码器是将DMX512转换为SPI（TTL）数字信号，可控制市面上大多数的LED像素灯具，DMX数字控台可以控制到LED灯具的每一通道，实现0-100%调光或编辑各种变化效果。

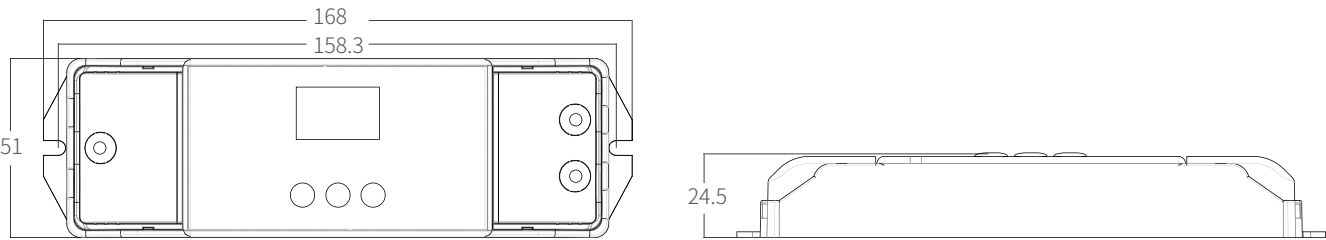
PX24601解码器配有人性化的显示屏设计，可以很容易的选择控制的灯具IC类型、RGB顺序等。自带11种变化模式，也可以当做一款简易的SPI控制器单独使用。



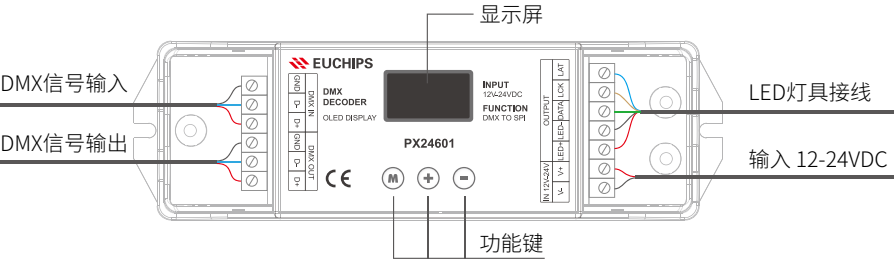
技术参数

|      |               |          |             |
|------|---------------|----------|-------------|
| 型号   | PX24601       |          |             |
| 工作电压 | 12-24VDC      | 工作温度     | -20℃~50℃    |
| 消耗功率 | <1W           | 产品尺寸(mm) | 167*51*24.5 |
| 输入信号 | DMX512        | 毛重(g)    | 105         |
| 输出信号 | SPI           |          |             |
| 自测模式 | 11种           |          |             |
| 控制数量 | 170个像素(510通道) |          |             |

尺寸(mm)

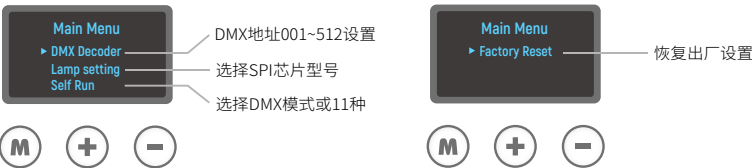


接线图

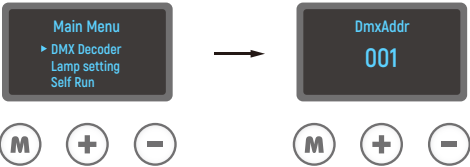


显示屏界面说明:

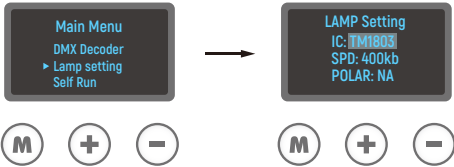
1. 长按 **M** 键，主界面



1.1 DMX地址设置，按 **M** 进入DMX地址设置界面。

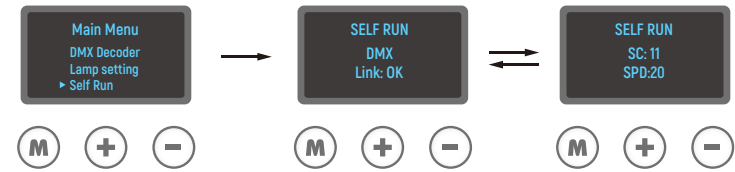


1.2 选择SPI芯片型号，按 **M** 进入芯片选择界面。IC: 选择芯片型号。

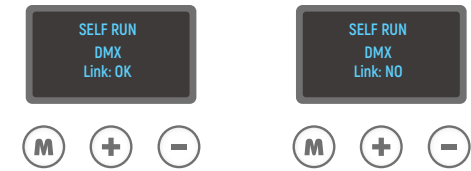


1.3 选择DMX模式或11个自带模式

1.3.1 按 **M** 进入Self Run，按 **+** 或 **-** 可切换DMX模式或11种自变模式。



1.3.2 DMX信号连接成功显示Link: OK，DMX信号未连接显示Link: NO；



1.3.2 自带模式下，短按 **+** 或 **-** 调节模式，长按 **+** 或 **-** 调节模式效果速度。



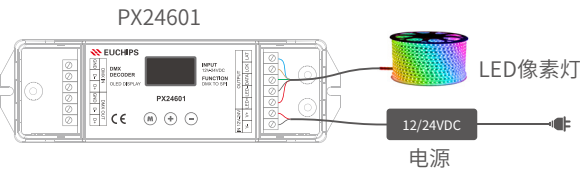
变化模式列表

| 序号 | 模式效果  | 序号 | 模式效果 | 序号 | 模式效果  | 序号 | 模式效果  |
|----|-------|----|------|----|-------|----|-------|
| 1  | 红绿蓝渐变 | 4  | 蓝渐变  | 7  | 蓝绿追逐  | 10 | 七彩渐变  |
| 2  | 绿渐变   | 5  | 花开炫彩 | 8  | 红绿追逐  | 11 | 红绿蓝追逐 |
| 3  | 红渐变   | 6  | 绿红追逐 | 9  | 红绿蓝追逐 |    |       |

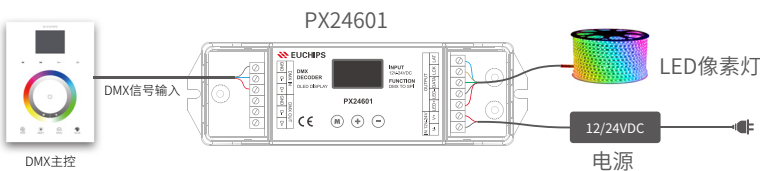
接线

| 接线方式 | 信号线                | 支持芯片型号                                                                                                                                         |
|------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 单线<br>DATA         | TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903<br>UCS2909, UCS2912, WS2811(WS2811B), WS2812, WS2812B, GS2806(BGR), SM16703 |
|      | 2线<br>DATA CLK     | LPD6803, LPD1101, D705, UCS6909, UCS6912                                                                                                       |
|      | 3线<br>DATA CLK LAT | 74HC595, 6B595, MB15026, DM134, ZQ9712                                                                                                         |

1.PX24601为主控接线

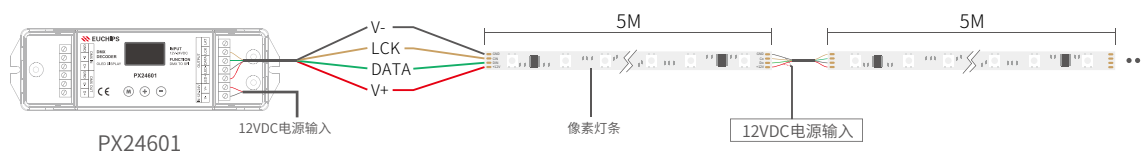


2.DMX主控接线

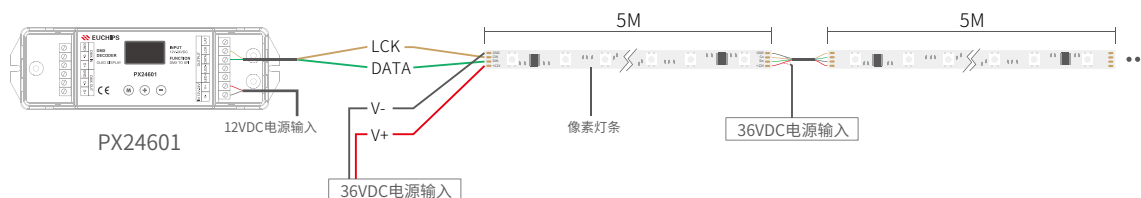


## 3.像素灯条连接示意图:

### 3.1一般连接方法



### 3.2特殊连接方法, 灯具和控制器使用不同的工作电压。



### 3.3与DMX512电脑控制台连接, 实现DMX解码器功能:

