

SPI-16S Mini LED Fantastic Controller

RF WIRELESS



FC CE RoHS (warranty 5 years)

Wall-mounted

SPI-16S is a Mini LED pixel controller, equipped with RF remote M16S, almost able to control all IC-driven LED lights. Compact and powerful, various built-in changing effects and customized scene modes can bring you fantastic color!

By RF remote control M16S, you can select from a variety of dynamic lighting effects, set controlled pixels quantity, adjust the changing speed and brightness, change the lighting moving direction, adjust RGB sequence, select the IC type, store and play customized scene etc.

1. Product parameter:

SPI-16S Controller:

Power Input: 5~24Vdc
Output: SPI (Max 10A)
Wireless Signal: RF 2.4GHz
Working Temperature: -30°C~55°C
Pixel Range: 8~1020px
Dimensions: L135×W30×H20(mm)
Weight(N.W.): 52g

Compatible driving IC: any kinds, can be customized also.

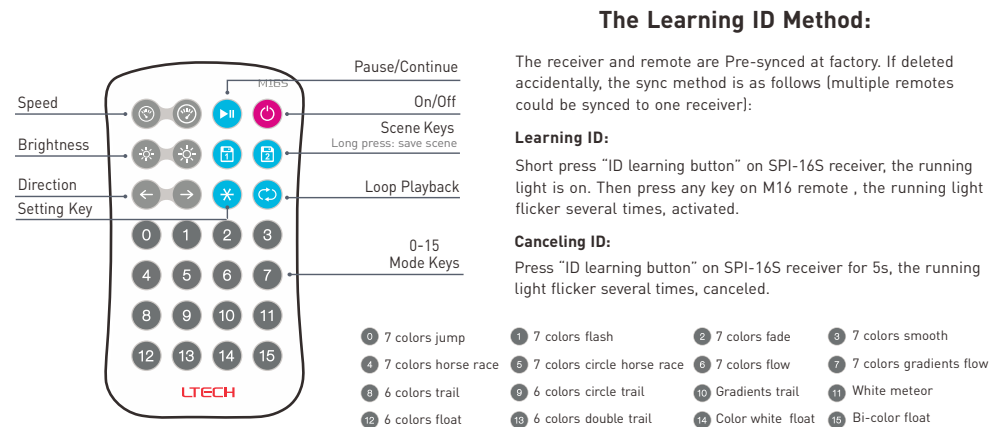
Package size: L132×W198×H22(mm) Total weight(G.W.): 145g

★ Connect power supply to pixel LEDs separately, in case of overvoltage, overcurrent to the receiver.
Receiver only supply a signal to the LEDs.

M16S Remote:

Working Voltage: 3V (battery CR2032)
Wireless Signal: RF 2.4GHz
Changing Mode: 16 kinds
Working Temperature: -30°C~55°C
Dimensions: L104×W58×H9(mm)
Weight(N.W.): 42g

2. The remote instruction:



Other Setting Instructions of Remote

1. Loop playback: Short press * key, then continuous press any 0-15 numeric keys, last press key to finish.
Controller will play cycle the corresponding mode of the numeric key.

2. After the remote being paired with the controller, the IC model, pixel ranges and RGB sequence can be set by the remote.

By factory default, controller works with TM1809IC pixel light. If work with different IC model, please setting follow below instructions. This controller is compatible with following IC models:

TM1803/TM1804/TM1809/Tm1812/TM1814/TM1914A/UCS1903/UCS1909/UCS1912/UCS2903/UCS2904B/UCS2909/UCS2912/UCS5603A/UCS6909/UCS6912/WS2801/WS2803/WS2811/WS2812/WS2812B/WS2821/AP A102/APA104/KL590/KL592D/LPD6803/LPD1101/LPD8803/LPD8806, P9813/TLS3001/TLS3002/P943/SK6812(RGB)/GS8206(BGR)/GS8208/SM16703.

Manipulate table for choosing ICs, RGB order or pixel No.

IC Type	Setting e.g.
TM1809	*1809*
LPD6803	*6803*
KL590	*0590*
KL592D	*0592*
APA102	*0102*
*****	*0000*

Pixel	Setting e.g.
8	**008
16	**016
100	**100
160	**160
1020	**1020
Range: 8-1020 pixels	

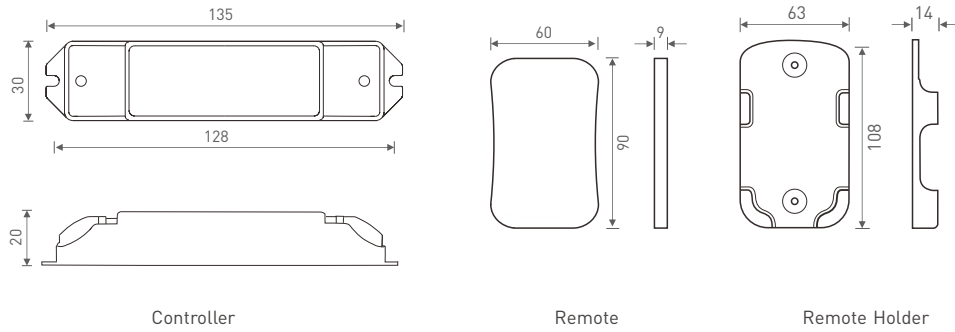
RGB Order	Setting
RGB	*123*
RBG	*132*
GRB	*213*
GBR	*231*
BRG	*312*
BGR	*321*

[Attn]: The running light of SPI-16S controller flashes 2s means set completed.

When setting IC type, pixel number and RGB order, select multiple keys at uniformed speed. Not too fast.

3. Product dimension:

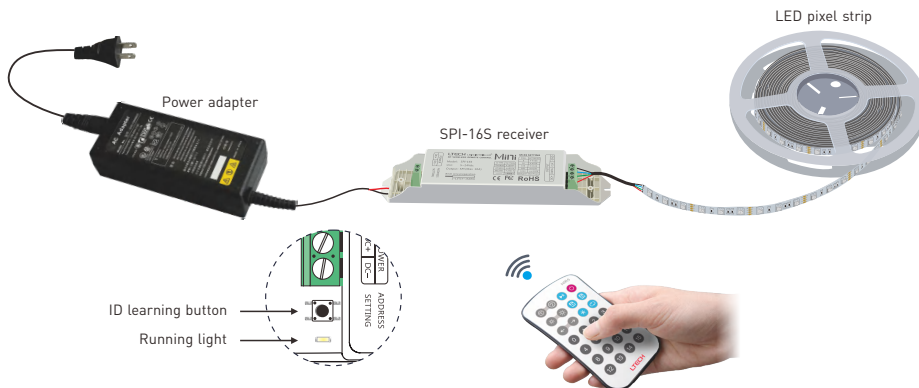
Unit: mm



4. Terminal description:

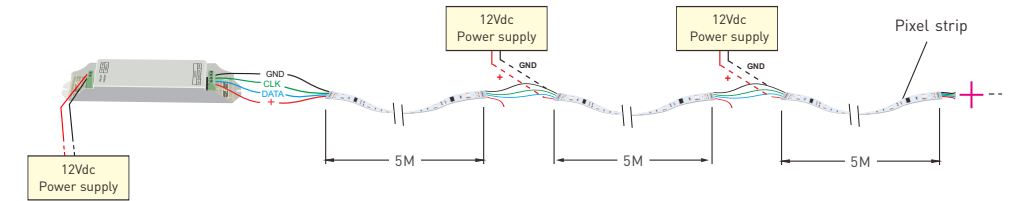


5. Wiring diagram:

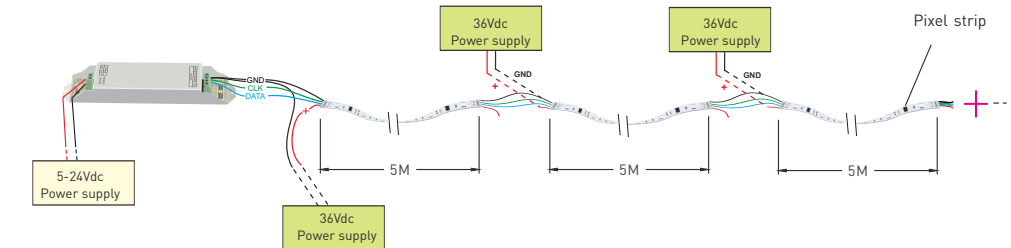


LED pixel strip wiring diagram:

a. Conventional connection method.



b. Light fixtures and controller using different operating voltages.



* No further notice if any changes in the manual. Product function depends on the goods.
Please feel free to contact your supplier if any question.

SPI-16S
Mini LED幻彩控制器

RF WIRELESS



FC CE RoHS (质保5年)

SPI-16S是一款MINI型的LED幻彩控制器，配套RF遥控器M16S，基本可以控制市面上所有IC驱动的LED灯具；小巧而功能强大，简约而不简单，内置多种变幻效果，还可以自定义2种场景模式，给您带来奇幻的色彩！

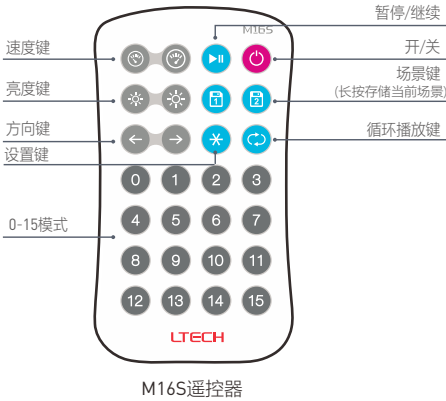
通过RF遥控器可以选择各种动态灯光变化效果，可以设置控制像素数量，调节变化速度、亮度，改变变化方向，调整RGB顺序，选择IC类型，储存、播放自定义场景等功能。

1. 产品参数:

SPI-16S 控制器:	M16S 遥控:
工作电压: 5~24Vdc	工作电压: 3Vdc (battery CR2032)
输出: SPI (Max 10A)	无线信号: 2.4GHz
无线信号: 2.4GHz	变化模式: 16种
工作温度: -30°C~55°C	工作温度: -30°C~55°C
像素范围: 8~1020像素	尺寸: L104×W58×H9(mm)
尺寸: L135×W30×H20(mm)	重量(N.W): 42克
重量(N.W): 52克	
适合IC类型: 多种，也可订制	
套装包装尺寸: L132×W198×H22(mm)	套装总重量: 145克

★ 像素灯的功率或电压超出接收器的承受范围时，可以单独外接电源供电给像素灯，接收器只输出信号。

2. 遥控按键说明:



遥控学习方法:

出厂遥控器与接收器已经配对好，如果不慎删除了，可以通过下面方法学习（支持学习多个遥控）:

学习ID: 短按一下接收器SPI-16S学习键，运行灯由闪烁变为常亮，再按遥控器任意按键，运行灯快闪几下，学习成功。

删除ID: 长按接收器SPI-16S学习键5秒，运行灯快闪几下，删除成功。

- | | | | |
|----------|-----------|----------|----------|
| 0 七彩跳变 | 1 七彩频闪 | 2 七彩渐明渐暗 | 3 七彩交替渐变 |
| 4 七彩跑马 | 5 七彩循环跑马 | 6 七彩流水 | 7 七彩渐变流水 |
| 8 六彩拖尾 | 9 六彩循环拖尾 | 10 渐变色拖尾 | 11 白色流星雨 |
| 12 六彩渐变追 | 13 六彩双头拖尾 | 14 彩白渐变追 | 15 双色渐变追 |

遥控的其他设置说明

- 循环播放: 短按 * 键，再连续按0-15任意多个数字键，按 键结束，控制器将循环播放数字键对应的模式。
- 遥控需要与控制器的配对后，通过遥控可以设置IC类型，像素范围设置以及RGB顺序选择方法：控制器出厂默认状态是匹配TM1809IC像素灯具，如需要更改IC类型的像素灯具,请按下述方法更改，控制器可兼容IC的像素灯具类型如下:
TM1803/TM1804/TM1809/Tm1812/TM1814/TM1914A/UCS1903/UCS1909/UCS1912/UCS2903/UCS2904B/UCS2909/UCS2912/UCS5603A/UCS6909/UCS6912/WS2801/WS2803/WS2811/WS2812/WS2812B/WS2821/APA102/APA104/KL590/KL592D/LPD6803/LPD1101/LPD8803/LPD8806, P9813/ TLS3001/TLS3002//P943/SK6812(RGB)/GS8206(BGR)/GS8208/SM16703

选择其他IC、RGB顺序及像素数量可按表格操作。

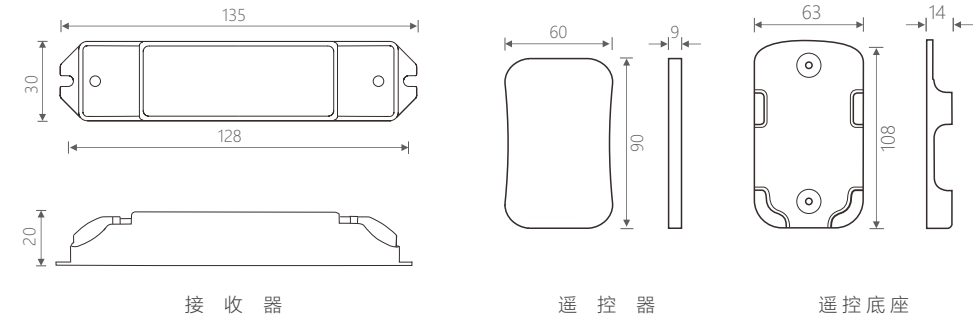
IC类型	设置例子	像素	设置例子	RGB顺序	设置方法
TM1809	* 1809 *	8	** 008	RGB	* 123 *
LPD6803	* 6803 *	16	** 016	RBG	* 132 *
KL590	* 0590 *	100	** 100	GRB	* 213 *
KL592D	* 0592 *	160	** 160	GBR	* 231 *
APA102	* 0102 *	1020	** 1020	BRG	* 312 *
.....	* 0000 *	范围:8-1020像素		BGR	* 321 *

[注]: SPI-16S控制器RUN灯快闪2秒表示设置成功

当设置IC类型、像素数量及RGB顺序时，选择多个按键需使用均匀的速度，不用太快。

3. 产品尺寸:

单位: mm



4. 控制器端子说明:

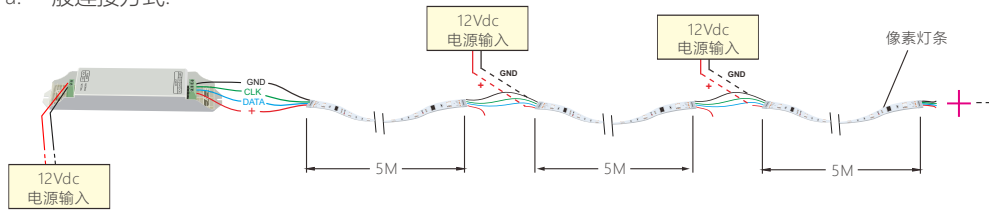


5. 连线示意图:

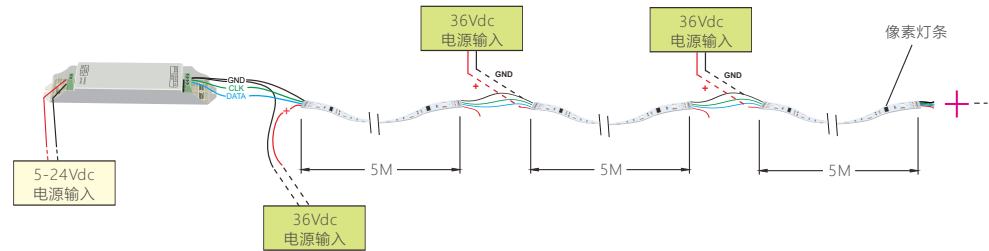


LED像素灯条连接图:

a. 一般连接方式.



b. 灯具和控制器使用不同的电压.



* 本说明书的内容如有变更, 恕不另行通知。若内容与您使用的功能有所不同, 则以实物为准。
如有疑问, 请与供应商联系。