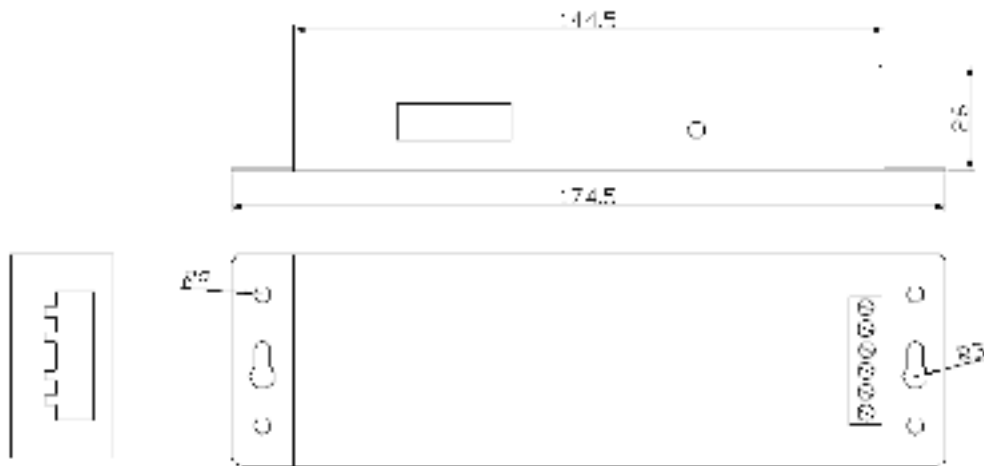


Technical Parameters Controller

● Working temperature: -20-60 ° C ● Input voltage: DC5-24V ● Output: SPI signal (DATA, CLK) ● External dimension: L175 x W53 x H27 (mm) ● Packing size: L180 x W58 x H55 (mm)

● Net weight: 256.2g ● Gross weight: 292.6g ● Max output:480W

External Dimension Controller External Dimension:



Interface Specification

Interface of DMX signal adopts the 6PIN green terminal interface, wiring is as follows:

DMX IN: input interface of DMX signal, D+ should be connected with positive of signal, D- connected with negative of signal, Gnd connected with ground. **DMX OUT:** output interface of DMX signal, D+ should be connected with positive of signal, D- connected with negative of signal, Gnd connected with ground.

Power and load output adopts the 6PIN green terminal, wiring is as follows:

POWER: input interface of power, V+ should be connected with positive of power, V- connected with negative of power, the range of supply voltage is DC5-24V

OUTPUT: load output interface, V+ should be connected with the positive of light, GND connected with negative, DATA connected with data interface of light, CLK connected with clock interface of light.



Direction for use

1. parameters settings of decoder You can modify the light type that decoder supports through the DIP switch. The decoder can support 10 kinds of strips in market. As follows:

Number	Model	Signal line
1	LPD6803	DATA, CLK
2	TM1803	DATA
3	TM1809	DATA
4	TM1812	DATA
5	UCS1903	DATA
6	WS2811	DATA
7	WS2801	DATA, CLK
8	TLS3001	DATA
9	TLS3008	DATA
10	P9813	DATA, CLK

If there are 2 signal lines, then you need to connect the ground wire, clock line, data line with GND、CLK, DATA.

Remark: if the V+ voltage of strip is the same with controller input voltage, then it can directly connect with the controller V+; if not, you need to connect another power supply.

Since the specifications of light in the market are different, the sequence of RGB may be different, the sequence of some lights is RGB, some sequence is RBG, GRB and so on, so the DIP switch provides modification of RGB sequence.

DIP switch is shown as below:

IC type: selection of light type. The accumulation of first four DIP is $1*1+2*0+4*0+8*0=1$, lookup the table, you can find it is LPD6803. LED Sequence: selection of RGB sequence. DIP 5 above is pressed, it indicates that the color sequence of light is RGB.

Remark: if the accumulation of IC type is more than 10, such as 12, 14, the default is 10, that is P9813; when LED sequence, there are two or more DIP are press, such as 5, 7, 9 are pressed simultaneously, default it will take the largest value 9, that is BRG.

2. Indicator description: the signal lights up indicates that it detects button is pressed, the signal is off indicates there is not button pressed. 3. Buttons can only be used when the controller is not connected with DMX signal, when controller is connected with DMX console, the mode of console is priority, and the buttons will not have any effect.

Mode changes are as the following table:

<table border="1"> <tr> <th colspan="4">IC Type</th> <th colspan="6">Led Sequence</th> </tr> <tr> <td>001</td> <td>002</td> <td>004</td> <td>008</td> <td>RGB</td> <td>RBG</td> <td>GRB</td> <td>GBR</td> <td>BRG</td> <td>BGR</td> </tr> </table>		IC Type				Led Sequence						001	002	004	008	RGB	RBG	GRB	GBR	BRG	BGR
IC Type				Led Sequence																	
001	002	004	008	RGB	RBG	GRB	GBR	BRG	BGR												
0																					
1																					

Mode	Mode instruction
1	Static red
2	Static green

3	Static blue
4	Static yellow
5	Static purple
6	Static cyan
7	Static white
8	Red horse race to right
9	Green horse race to right
10	Blue horse race to right
11	Three base color stroboflash
12	Seven-color stroboflash
13	Three base color jumpy change
14	Seven-color jumpy change
15	Three mixing color three color wave by wave running forward

	direction
16	Seven-color wave forward direction
17	Red trail forward direction
18	Red trail backward direction
19	Green trail forward direction
20	Green trail backward direction
21	Blue trail forward direction
22	Blue trail backward direction
23	Seven-color running trail backward direction
24	Seven-color running trail forward direction
25	Change color purple-red-purple forward direction
26	Change color yellow-green-yellow forward direction
27	Change color cyan-green-cyan forward direction
28	Change color purple-blue-purple forward direction
29	Change color cyan-blue-cyan forward direction
30	Change color white-red-white forward direction
31	Change color yellow-red-yellow forward direction
32	Change color red-yellow-red
33	Change color green-cyan-green
34	Change color blue-purple-blue
35	Automatically play 8~34

Typical Application Single power connect single signal line strip condition:

If the V+ voltage of strip is the same with controller input voltage and the light signal is single then it can directly connect with the controller V+;
