

HX-SPI-RF8K

Category: SPI / Pixel Controllers

Source model: HX-SPI-RF8K

Internal reference: HOION-CTRL-070

Product Overview

Wireless Digital-strip LED Controller

This controller is design for led production which uses LPD series or UCS series or TM series or WS series

(LPD6803/UCS1903/TM1804/TM1809/TM1812/WS2811/WS2801 etc.) IC as driver, it is very useful for light box advertisement, stage light, house decorating, and so on.

Technical Details

Product Feature

Constant voltage led controller, working voltage:DC12V-24V, memory function

Adopt film button control panel and RF remote control, both functions are same.

The suitable IC contains: LPD6803 UCS1903 WS2801

Colorful control effect, there are 133 modes in total. The 132nd mode is the auto-cycle running from 1st to 131st. The 133 rd mode is the DIY mode.

2 groups SPI signal output, each group signal drive 2048 pixels in the Max. For example, one group can drive 200 meters DC12V USC1903 strip in the Max.

2-year warranty.

Technical Parameters

| Working temperature | -20-60℃

| Supply voltage | DC12V-24V

| Static power consumption | <0.4W

| External dimension | L94*W58*H25 mm

| Packing size | L95*W60*H26mm

| Net weight | 155g

| Gross weight | 185g

| Gray scale | 256levels(1903,2801) 32levels(6803)

| Memory function | yes

| Effects model | 133

| Maximum control points | 1024 (Low-speed) points, 2048 (High-speed) points

| Output | 2groups SPI signal

| Controlled IC Model | LPD6803 UCS1903 WS2801

Direction for use

Connect the load wire at first, followed by the power wire;

Ensure short circuit can not occur before you turn on the power!

Adopt film button control panel and RF remote control, There are 8buttons on the control panel, function of each button as below:

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Symbol
Button Name
Instruction

On/Off	it can open or close led anytime, when led is on the station of closing, The digital tube will display "****", "****" is the value of current setting.
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Play/pause	pressing this button to pause, the digital tube will display "PPPP
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Adding button	Adding button, to add the IC NUMBER, the most number is 2048 .
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Reducing button	to reduce the IC NUMBER, the least number is 8
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Program choosing button	up direction ¼ there are 133 programs in all.
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Program choosing button	down direction
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Speed slow button	there are 99 step in all, the most number is 99
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Speed quick button	there are 99 step in all, the most number is 99
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RF remote control, there are 8 keys in total, function of each button as below:

ON/OFF On/Off	it can open or close led anytime

PAUSE Play/pause	pressing this button to pause, the digital tube will display "PPPP

S+ Speed quick button	there are 99 step in all, the most number is 99

S- Speed slow button	there are 99 step in all, the most number is 99

B+ Program choosing button	up direction ¼ there are 133 programs in all.

B- Program choosing button	down direction

M+ Adding button	to add the IC NUMBER, the most number is 2048 .

M- Reducing button	to reduce the IC NUMBER, the least number is 8

Controller IC model settings

Press the "ON/OFF" key, controller powering off;

Press the "S-" key, the digital tube will display "---1";

Press the "S+" key, the digital tube will display "---2";

Press the "S-" key, the digital tube will display "---3";

Press the "S+" key, the digital tube will display IC model;

Press the "PAUSE" key, to select the IC model(6803/1903/2801);(1903:UCS1903,TM1804,TM1809,WS2801 etc)

After setting well, press the "ON / OFF" button to save and exit.

Program Description:

NO.

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Function Description |

NO.

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Function Description

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1 | Static red |

2 | Static green

|

3 | Static blue |

4 | Static yellow

|

5 | Static cyan |

6 | Static purple

|

7 | Static white |

8 | Three color jumpy change

|

9 | Seven color jumpy change |

10 | Seven color stroboflash

|

11 | Red horse race lamp to right direction |

12 | Purple horse race lamp to left direction

|

13 | Blue horse race lamp to right direction |

14 | Cyan horse race lamp to left direction

|

15 | Seven color cycling horse race lamp to right direction |

16 | Seven color cycling horse race lamp to left direction

|

17 | Seven color horse race lamp back-for-ward direction |

18 | Seven color horse race lamp to left direction

|

19 | Seven color jumping horse race lamp to right direction |

20 | Three color gradually change

|

21 | Seven color gradually change |

22 | Red background scan lamp back-for-ward direction

|

23 | Green background scan lamp back-for-ward direction |

24 | Blue background scan lamp back-for-ward direction

|

25 | Yellow background scan lamp back-for-ward direction |

26 | Cyan background scan lamp back-for-ward direction

|

27 | Purple background scan lamp back-for-ward direction |

28 | White background scan lamp back-for-ward direction

|

29 | Seven color scan lamp back-for-ward direction |

30 | Red water move to right direction

|

31 | Red water move to left direction |

32 | Green water move to right direction

|

33 | Green water move to left direction |

34 | Blue water move to right direction

|

35 | Blue water move to left direction |

36 | Yellow water move to right direction

|

37 | Yellow water move to left direction |

38 | Cyan water move to right direction

|

39 | Cyan water move to left direction |

40 | Purple water move to right direction

|

41 | Purple water move to left direction |

42 | White water move to right direction

|

43 | White water move to left direction |

44 | Seven color cycling water move to right direction

|

45 | Seven color breathing lamp back-for-ward direction |

46 | Red trail to left single direction

|

47 | Purple trail to left single direction |

48 | Blue trail to left single direction

|

49 | Cyan trail to left single direction |

50 | White trail to left single direction

|

51 | Green trail to left single direction |

52 | Yellow trail to left single direction

|

53 | Seven color jumping trail to left single direction |

54 | Seven color queue trail to left single direction

|

55 | Seven color alternation trail to left single direction |

56 | Red trail to right single direction

|

57 | Purple trail to right single direction |

58 | Blue trail to right single direction

|

59 | Cyan trail to right single direction |

60 | White trail to right single direction

|

61 | Green trail to right single direction |

62 | Yellow trail to right single direction

|
63 | Seven color jumping trail to right single direction |
64 | Seven color queue trail to right single direction

|
65 | Seven color alternation trail to right single direction |
66 | Red water trail to right direction

|
67 | Purple water trail to right direction |
68 | Blue water trail to right direction

|
69 | Cyan water trail to right direction |
70 | White water trail to right direction

|
71 | Green water trail to right direction |
72 | Yellow water trail to right direction

|
73 | Seven color jumping water trail to right direction |
74 | Seven color queue water trail to right direction

|
75 | Seven color alternation water trail to right direction |
76 | Red trail to left double direction

|
77 | Purple trail to left double direction |
78 | Blue trail to left double direction

|
79 | Cyan trail to left double direction |
80 | White trail to left double direction

|
81 | Green trail to left double direction |
82 | Yellow trail to left double direction

|
83 | Seven color jumping trail to left double direction |
84 | Seven color queue trail to left double direction

|
85 | Seven color alternation trail to left double direction |
86 | Red trail to right double direction

|
87 | Purple trail to right double direction |
88 | Blue trail to right double direction

|
89 | Cyan trail to right double direction |
90 | White trail to right double direction

|
91 | Green trail to right double direction |
92 | Yellow trail to right double direction

|
93 | Seven color jumping trail to right double direction |
94 | Seven color queue trail to right double direction

|
95 | Seven color alternation trail to right double direction |
96 | Full color wave to right direction

|
97 | Seven color water move to left direction |
98 | Purple background trail to right double direction

|
99 | Blue background trail to right double direction |
100 | White background trail to right double direction

|
101
A3 | Cyan background trail to right double direction |
102 | Green background trail to right double direction

|
103 | Yellow background trail to right double direction |
104 | Seven color background trail to right double direction

|
105 | Seven color spread from the middle to both sides |
106 | Seven color breathing from the middle to both sides

|
107 | Seven color draw curtain |
108 | Seven color lower curtain

|
109 | Seven color spread from both sides to the middle |
110 | Colorful switch

|
111 | Seven color overlay to right direction |
112 | Seven color overlay to left direction

|
113 | Seven color overlay to left and right direction |
114 | Seven color background overlay to double direction

|
115 | Seven color overlay from middle to both sides |
116 | Seven color background overlay middle to both sides

|
117 | Seven color overlay from both sides to middle |
118 | Seven color background overlay both sides to middle

|
119 | Sub seven color move back-for-ward direction |
120 | Sub seven color jump and move back-for-ward

|
121 | Sub seven color background move back-for-ward |
122 | Sub seven color background move single direction

|
123 | Sub seven color overlay to left and right direction |
124 | Sub seven color background overlay to left and right

|
125 | Sub seven color spread to single direction |

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126 | Sub seven color spread back-for-ward

|

127 | Sub seven color water move to left and right |

128 | Sub seven color spread from middle to both sides

|

129 | Sub seven color stretch from middle to both sides |

130 | Sub seven color stretch to single direction

|

131 | Sub seven color overlay to single direction |

132 | The white light trail

|

133 | Auto play circularly | |

Typical Applications :

Product information for placing order

| Product name | Item number

| LED dream color controller | HX-SPI-RF8K

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/LEDhuancaikongzhiqi/2021/0419/377.html>