

Umi Smart Wireless
Multi-function SPI
LED Controller

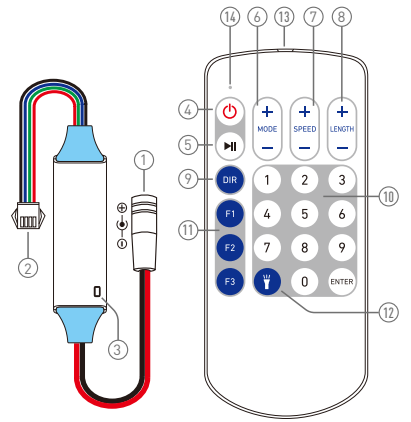
Model: MP70-K1(A/T/S)

Controller: MP70(-A/T/S)
Handheld Remote: BR06

- BLE Mesh
- Remote and Phone
- 672 Patterns
- RGB+W Effects
- Waterproof
- Ultra Compact

Introduction

This LED controller is designed to drive various digital LED strip or spot lights with decode IC. It can be controlled by remote controller and Umi Smart app [-A version]. With advanced BLE mesh technology, multiple controllers can work synchronously with a robust connection. For option, IP68 waterproof feature is available on -S version, and timing play function is available on -T version.



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11. Favorite effects and recall

User can save/load favorite program to/from F1, F2, F3 key.
To save the current running pattern to favorite, please hold press F1, F2 or F3 key for about 2 seconds. After the hold-pressing, the current program will be saved to relevant key. After saving, user can load the favorite by short press F1, F2 or F3 key.

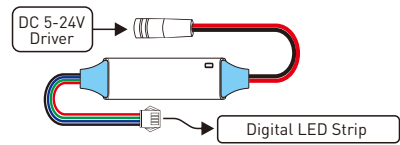
12-13. Micro flashlight

Press to turn on/off the white light source on top of the remote controller. The light will automatically turn off after 5 seconds.

14. Remote indicator

The indicator will light up when remote keys pressed.

Operation



15. Installation pre-caution

Please make sure the power supply's voltage is in range of the controller and is the same as the LED load. Check all cable's polarity and insulation before power on.
For proper remote signal receiving, please do not install the controller in closed metal parts.

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16. Pairing remote controller

The remote controller and receiver are 1 to 1 paired as factory default. It's possible to pair up to 5 remote controllers to one receiver and each remote controller can be paired to any receiver.

To pair a new remote controller, please operate with following steps:

- 16.1) Plug off the power of receiver unit and plug in again after more than 5 seconds.
- 16.2) Press 'on/off' and 'Length +' key simultaneously within 10 seconds after receiver power on.
- 16.3) Release all keys, then press 'ENTER' key within another 10 seconds.

After this operation, the receiver indicator will flash white color for 3 times to display accomplishment.

17. Unpair remote controller

To unpair the remote, user need to plug off and on the receiver power, then press combo key and 'F3' key in sequence. please refer to 16.1 and 16.2 about power switching and combo-key operation.

After power and combo-key operation, then press 'F3' key to unpair the remote.

18. Change data format/color sequence/data range

CAUTION: Do not change following setting unless you fully understand your LED configuration!

To change the setting, user need to plug off and on the receiver power, then press combo key and other keys in sequence. please refer to 16.1 and 16.2 about power switching and combo-key operation.

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Function

1. Power supply input

The power supply voltage range is from DC 5V to 24V. The inner pole of DC jack is positive and the sleeve is negative. The output @ cable voltage is the same as the input power voltage, please make sure the power supply voltage is correct for both controller and the led load. The positive power cable is directly connected to the output @ cable inside the controller.

2. LED driving signal output

This cable deliver digital driving signal. It also contains power cables connected to the input power.

The controller support 1-wire and 2-wire data format. For 2-wire data format, the cable marked 'D' runs data and cable marked 'C' runs clock signal. For 1-wire data format output, the 'D' cable runs data signal.

The data signal is sensitive to interference. Please keep the output cable away from interference and keep this cable as short as possible.

3. Status indicator

The indicator displays all working status of the controller. It shows different events as following list.
Steady blue: Normal working.
Short single white flash: New command received.
Yellow flash: Speed or length limit / invalid program.
White flash 3 times: New remote paired or new configuration received.
Short green flash: Timing play activated [-T model].

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1. Change data format (IC type):
Key sequence: 'Combo'---'Digit1-8'---ENTER.
The digit 1-8 represents different IC type (or compatible) which is listed as following table:

Digit	IC Type	Digit	IC Type
1	D7722 [rgb]	5	TM1814 [rgbw]
2	APA102/SK9822 [rgb]	6	UCS2904 [rgbw]
3	WS2811/WS2813/SK6812 [rgb]	7	UCS8904 [rgbw]
4	SK6812 [rgbw]	8	UC5512 [rgb]

2. Change color sequence:
Key sequence: 'Combo'---'DIR'---'Digit1-8'---ENTER.
The digit 1-8 represents different RGB and white color sequence of the LED layout:

Digit	Color Seq.	Digit	Color Seq.
1	RGB	5	BRG
2	RBG	6	BGR
3	GRB	7	White in front of RGB
4	GBR	8	White after RGB

3. Change driving pixel range:
Key sequence: 'Combo'---'F1/F2'---ENTER.
F1 key represents 500-pixel range, F2 key represents 1000-pixel range. Please note the maximum frame rate of 500-pixel is twice of 1000-pixel.

19. Control by smart phone (-A or -T model)

For -A version controller, besides the remote controller, it also can be controlled by Umi Smart app. User can operate the controller from remote and/or Umi Smart app. Please search and download 'Umi Smart' app from Apple app store or Google play market to setup. There will also be a QR code on the controller for app download link.

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4. Turn on / Standby

Turn on the controller or turn off to standby mode.

5. Play / Pause

Toggle between running and pause mode. The pause mode will be cancelled with any new operation.

6. Program mode adjust

Adjust playing program. Jump to next mode by pressing '+' key and previous mode by pressing '-'.

7. Dynamic speed / static brightness

Adjust running speed of dynamic effect or the brightness of static color effect. Press '+' key to increase and '-' key to decrease.

8. Unit length of dynamic modes

Adjust the program unit length of dynamic modes. Press '+' key to increase and '-' key to decrease.

9. Switch running direction

Switch the running direction of dynamic programs. For most programs, there are 4 directions including forward, reverse, open and close. The direction setting is not available for the programs without direction feature.

10. Program direct setting zone

User can select desired program by key in the program number ending with the 'ENTER' key.

For example to switch to program 123, please press 1-2-3 and then ENTER key to setup.

Demo Mode: Program '0' is a demo mode which plays all dynamic patterns in loop, each pattern will be repeated for 3 times.

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20. Timing play with backup battery (-T model)

A real time clock with backup battery is equipped with the -T model. With this feature, user can setup timing play function with multiple repeating features of weekday or date on the Umi Smart app.

The real time clock runs by itself and will correct time once connected to the smartphone app. The built-in backup battery will reserve the timing play setting up to 48 hours after power cut. The saved timing play function will be invalid after the backup battery runs out and it will automatically recover once being connected to smartphone again.

21. Waterproof (-S model)

The IP-68 waterproof feature with glue injection finish is available on -S model controllers. For overall waterproof performance, the cables must be waterproof treated separately.

Specification

- Working voltage _____ DC 5V-24V for receiver, 3V for remote
- Wireless band _____ BLE mesh, 2.4GHz ISM band
- Output data range _____ 500/1000 Pixels
- Waterproof _____ IP68 for -S model, IP63 for others
- Working temperature _____ -20-55°C[-4-131°F]

App download link:
(for -A version only)



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Program List

	Comet	Flows	Fade Flow	Drops	Sand Clock	Ping-Pong	Sway	Star Spark	Whole Change	Static Color
Index	0-	1-	2-	3-	4-	5-	6-	7-	8-	9-
01	White	White	White	White	White	White	White	White	White fade	Red
02	Red	Red	Red	Red	Red	Red	Red	Red	Red fade	Orange1
03	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange fade	Orange2
04	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow fade	Yellow1
05	Green	Green	Green	Green	Green	Green	Green	Green	Green fade	Yellow2
06	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan	Cyan fade	Yellow3
07	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue fade	Green
08	Purple	Purple	Purple	Purple	Purple	Purple	Purple	Purple	Purple fade	Cyan1
09	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink	Pink fade	Cyan2
10	White-Red	White-Red	White-Red	White-Red	White-Red	White-Red	White-Red	White-Red	W-R fade	Cyan3
11	White-Yellow	White-Yellow	White-Yellow	White-Yellow	White-Yellow	White-Yellow	White-Yellow	White-Yellow	W-Y fade	Cyan4
12	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green	White-Green	W-G fade	Cyan5
13	White-Cyan	White-Cyan	White-Cyan	White-Cyan	White-Cyan	White-Cyan	White-Cyan	White-Cyan	W-C fade	Blue
14	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	W-B fade	Purple1
15	White-Purple	White-Purple	White-Purple	White-Purple	White-Purple	White-Purple	White-Purple	White-Purple	W-P fade	Purple2
16	Red-Yellow	Red-Yellow	Red-Yellow	Red-Yellow	Red-Yellow	Red-Yellow	Red-Yellow	Red-Yellow	R-Y fade	Purple3
17	Yellow-Green	Yellow-Green	Yellow-Green	Yellow-Green	Yellow-Green	Yellow-Green	Yellow-Green	Yellow-Green	Y-G fade	Purple4
18	Green-Red	Green-Red	Green-Red	Green-Red	Green-Red	Green-Red	Green-Red	Green-Red	G-R fade	Purple5
19	Green-Cyan	Green-Cyan	Green-Cyan	Green-Cyan	Green-Cyan	Green-Cyan	Green-Cyan	Green-Cyan	G-C fade	Mix RGB1
20	Cyan-Blue	Cyan-Blue	Cyan-Blue	Cyan-Blue	Cyan-Blue	Cyan-Blue	Cyan-Blue	Cyan-Blue	C-B fade	Mix RGB2
21	Green-Blue	Green-Blue	Green-Blue	Green-Blue	Green-Blue	Green-Blue	Green-Blue	Green-Blue	G-B fade	Mix RGB3
22	Blue-Purple	Blue-Purple	Blue-Purple	Blue-Purple	Blue-Purple	Blue-Purple	Blue-Purple	Blue-Purple	B-P fade	Mix RGB4
23	Purple-Red	Purple-Red	Purple-Red	Purple-Red	Purple-Red	Purple-Red	Purple-Red	Purple-Red	P-R fade	Mix RGB5
24	Yellow-Blue	Yellow-Blue	Yellow-Blue	Yellow-Blue	Yellow-Blue	Yellow-Blue	Yellow-Blue	Yellow-Blue	Y-B fade	Mix RGB6
25	B-W-R	B-W-R	B-W-R	B-W-R	B-W-R	B-W-R	B-W-R	B-W-R	B-W-R fade	Mix RGB7
26	G-W-R	G-W-R	G-W-R	G-W-R	G-W-R	G-W-R	G-W-R	G-W-R	G-W-R fade	Mix RGB8
27	R-W-Y	R-W-Y	R-W-Y	R-W-Y	R-W-Y	R-W-Y	R-W-Y	R-W-Y	R-W-Y fade	Mix RGB9
28	R-G-B	R-G-B	R-G-B	R-G-B	R-G-B	R-G-B	R-G-B	R-G-B	R-G-B fade	Mix RGB10
29	Seven color	Seven color	Seven color	Seven color	Seven color	Seven color	Seven color	Seven color	Seven color	Mix RGB11
30	W & R	W & R	W & R	W & R	W & R	W & R	W & R	W & R	W-R smooth	Mix White
31	W & Y	W & Y	W & Y	W & Y	W & Y	W & Y	W & Y	W & Y	W-Y smooth	White
32	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W-G smooth	Warm white1
33	W & Cyan	W & Cyan	W & Cyan	W & Cyan	W & Cyan	W & Cyan	W & Cyan	W & Cyan	W-C smooth	Warm white2
34	W & B	W & B	W & B	W & B	W & B	W & B	W & B	W & B	W-B smooth	Green white
35	W & Purple	W & Purple	W & Purple	W & Purple	W & Purple	W & Purple	W & Purple	W & Purple	W-P smooth	Cool white1
36	Headed Red	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	R-Y smooth	Cool white2
37	Headed Orange	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Y-G smooth	Cool white3
38	Headed Yellow	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	G-R smooth	Not mapped
39	Headed Green	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	G-C smooth	Not mapped
40	Headed Cyan	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	C-B smooth	Not mapped
41	Headed Blue	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	G-B smooth	Not mapped
42	Headed Purple	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	B-P smooth	Not mapped
43	Headed Pink	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	P-R smooth	Not mapped
44	Headed R-Y	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Y-B smooth	Not mapped
45	Headed Y-G	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	B-W-R smooth	Not mapped
46	Headed G-R	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	G-W-R smooth	Not mapped
47	Headed G-C	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	R-W-Y smooth	Not mapped
48	Headed C-B	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	R-G-B smooth	Not mapped
49	Headed G-B	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Seven smooth	Not mapped

Program List

	Comet	Flows	Fade Flow	Drops	Sand Clock	Ping-Pong	Sway	Star Spark	Whole Change	Static Color
Index	0-	1-	2-	3-	4-	5-	6-	7-	8-	9-
50	Headed B-P	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped
51	Headed P-R	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped
52	Headed Y-B	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped
53	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped
54	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped
55	Red-Wbgd	Red-Wbgd	Red-Wbgd	Red-Wbgd	Red-Wbgd	Red-Wbgd	Red-Wbgd	Red-Wbgd	Red-Wbgd	White on/off
56	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Orange-Wbgd	Red on/off
57	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Yellow-Wbgd	Orange on/off
58	Green-Wbgd	Green-Wbgd	Green-Wbgd	Green-Wbgd	Green-Wbgd	Green-Wbgd	Green-Wbgd	Green-Wbgd	Green-Wbgd	Yellow on/off
59	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Cyan-Wbgd	Green on/off
60	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Blue-Wbgd	Cyan on/off
61	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Purple-Wbgd	Blue on/off
62	White-Wbgd	White-Wbgd	White-Wbgd	White-Wbgd	White-Wbgd	White-Wbgd	White-Wbgd	White-Wbgd	White-Wbgd	Purple on/off
63	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	R-Y-Wbgd	Pink on/off
64	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	Y-G-Wbgd	W-R jump
65	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	R-G-Wbgd	W-Y jump
66	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	G-C-Wbgd	W-G jump
67	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	C-B-Wbgd	W-C jump
68	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	G-B-Wbgd	W-B jump
69	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	B-P-Wbgd	W-P jump
70	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	P-R-Wbgd	R-Y jump
71	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-B-Wbgd	Y-G jump
72	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	7Color-Wbgd	R-G jump
73	White-Rbgd	White-Rbgd	White-Rbgd	White-Rbgd	White-Rbgd	White-Rbgd	White-Rbgd	White-Rbgd	White-Rbgd	G-C jump
74	White-Ybgd	White-Ybgd	White-Ybgd	White-Ybgd	White-Ybgd	White-Ybgd	White-Ybgd	White-Ybgd	White-Ybgd	C-B jump
75	White-Gbgd	White-Gbgd	White-Gbgd	White-Gbgd	White-Gbgd	White-Gbgd	White-Gbgd	White-Gbgd	White-Gbgd	G-B jump
76	White-Cbgd	White-Cbgd	White-Cbgd	White-Cbgd	White-Cbgd	White-Cbgd	White-Cbgd	White-Cbgd	White-Cbgd	B-P jump
77	White-Bbgd	White-Bbgd	White-Bbgd	White-Bbgd	White-Bbgd	White-Bbgd	White-Bbgd	White-Bbgd	White-Bbgd	P-R jump
78	White-Pbgd	White-Pbgd	White-Pbgd	White-Pbgd	White-Pbgd	White-Pbgd	White-Pbgd	White-Pbgd	White-Pbgd	Y-B jump
79	Red-Rbgd	Red-Rbgd	Red-Rbgd	Red-Rbgd	Red-Rbgd	Red-Rbgd	Red-Rbgd	Red-Rbgd	Red-Rbgd	B-W-R jump
80	O-Obgd	O-Obgd	O-Obgd	O-Obgd	O-Obgd	O-Obgd	O-Obgd	O-Obgd	O-Obgd	G-W-R jump
81	Y-Ybgd	Y-Ybgd	Y-Ybgd	Y-Ybgd	Y-Ybgd	Y-Ybgd	Y-Ybgd	Y-Ybgd	Y-Ybgd	R-W-Y jump
82	G-Gbgd	G-Gbgd	G-Gbgd	G-Gbgd	G-Gbgd	G-Gbgd	G-Gbgd	G-Gbgd	G-Gbgd	R-G-B jump
83	C-Cbgd	C-Cbgd	C-Cbgd	C-Cbgd	C-Cbgd	C-Cbgd	C-Cbgd	C-Cbgd	C-Cbgd	Seven jump
84	B-Bbgd	B-Bbgd	B-Bbgd	B-Bbgd	B-Bbgd	B-Bbgd	B-Bbgd	B-Bbgd	B-Bbgd	W&R on/off
85	P-Pbgd	P-Pbgd	P-Pbgd	P-Pbgd	P-Pbgd	P-Pbgd	P-Pbgd	P-Pbgd	P-Pbgd	W&Y on/off
86	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&G on/off
87	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&C on/off
88	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&B on/off
89	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&P on/off
90	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&R fade
91	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&Y fade
92	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&G fade
93	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&C fade
94	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&B fade
95	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	Not mapped	W&P fade

Notes:

1. The programs with blue background is only available for RGBW models.
2. R=red, Y=yellow, O=orange, G=green, C=Cyan, B=blue, W=white, P=purple.
3. bgd = background.
4. Program '0' is demo mode.

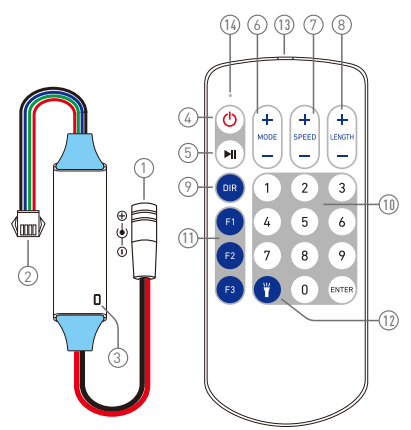
Umi智能无线 多功能SPI 幻彩LED控制器

型号:MP70-K1(A/T/S) 主机:MP70(-A/T/S) 遥控器:BR06

- 蓝牙自组网
- 遥控+手机
- 672种效果
- RGB/RGBW幻彩
- 防水
- 小尺寸

简介

该LED控制器用于驱动各种带解码IC的数字LED灯条或点光源。它可以通过遥控器和智能手机应用程序(-A版)进行控制。借助先进的蓝牙自组网技术,多个控制器可以可靠互联并同步工作。型号后缀为-S的机型具有IP68防水功能,后缀为-T的机型具有定时播放功能。



1

功能

1. 电源输入
控制器可接受5V至24V的直流电源,电源输入插座的极性为内正外负。信号输出电缆上的电源线与电源输入正极线直接相连,因此请确保LED的额定电压与控制器供电电压相符。

2. LED驱动信号输出
该电缆输出数字驱动信号,同时它还包含直接连接到电源输入的电源线。
控制器支持1线和2线数据格式。对于2线数据格式,标有“D”的电缆输出数据,标有“C”的电缆运输输出时钟信号。对于1线数据格式输出,“D”电缆为数据信号。
数据信号对于干扰很敏感。请尽量缩短输出电缆到LED灯具的连线距离,并使该电缆远离干扰源。

3. 状态指示灯
该指示灯显示控制器的工作状态,指示灯的闪烁方式与工作状态的对对应关系如下:
蓝色常亮:正常工作。
白色短闪:收到命令。
黄色闪烁:速度或长度限制/无效程序。
白色闪烁3次:新遥控器配对或接收到新配置。
绿色短时快闪:已开启定时播放功能(-T机型)

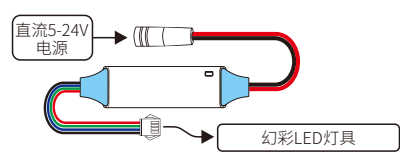
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11. 调出与保存喜好库
用户可以通过 F1、F2、F3 键调出或保存喜欢的程序。要将当前运行模式保存到喜好库,请长按 F1、F2 或 F3 键约 1 秒钟,之后当前程序和设置将被保存到该键。保存后,用户可以通过短按 F1、F2 或 F3 键调出喜好库。

12-13. 微型手电筒
按下此按键可打开/关闭遥控器顶部的光源。灯光会在大约 5 秒种后自动关闭。

14. 遥控指示灯
按下遥控器按键时指示灯会亮起。

操作方法



15. 安装注意事项
请确保电源电压在控制器接受范围内,并且与控制器驱动的LED灯具电压相同。通电前请确保所有电缆的极性正确并良好绝缘。
为了确保控制器能正常接收无线信号,请勿将控制器安装在有大面积金属遮蔽的场合。

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16. 配对遥控器
遥控器和控制器出厂默认为1对1配对形式。一个控制器最多可以配对5个遥控器,而遥控器可以配对到任意控制器。

要配对新的遥控器,请按以下步骤操作:
16.1) 断开控制器的电源,并在5秒以后重新通电。
16.2) 在控制器通电10秒钟内,同时短按遥控器的“开/关”和“LENGTH+”键。
16.3) 松开所有按键,在10秒内再按“ENTER”键。完成此操作后,控制器指示灯将闪烁3次白色以示配对完成。

17. 取消配对
遥控器取消配对的操作与配对操作类似,首先按步骤16.1和16.2进行通断电和组合键操作,然后松开所有按键,在10秒钟内再按“F3”键取消配对遥控器。

18. 更改IC类型/颜色顺序/驱动点数
注意:除非您完全了解您的LED配置,否则请勿更改以下设置!

要更改这些设置,请先关闭再打开控制器电源,然后依次按组合键和其他键。电源通断和组合键操作请参考16.1和16.2。

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1. 改变数据格式(IC类型):
按键顺序:组合键---数字键1-8---ENTER。
数字1-8代表不同的IC型号,IC型号如下表所示:

数字	IC类型	数字	IC类型
1	D7722 (rgb)	5	TM1814 (rgbw)
2	APA102/SK9822 (rgb)	6	UCS2904 (rgbw)
3	WS2811/WS2813/SK6812 (rgb)	7	UCS8904 (rgbw)
4	SK6812 (rgbw)	8	UCS512 (rgb)

2. 改变颜色顺序:
按键顺序:组合键---DIR---数字键1-8---ENTER。
数字1-8代表LED布局的不同RGB和白色顺序:

数字	颜色顺序	数字	颜色顺序
1	RGB	5	BRG
2	RBG	6	BGR
3	GRB	7	白色在RGB之前
4	GBR	8	白色在RGB之后

3. 改变驱动点数范围:
按键顺序:组合键---F1/F2---ENTER。
F1键代表500点,F2键代表1000点。请注意,500点时的最高播放帧率是1000点的两倍。

19. 智能手机控制(-A/-T机型)
MP70-A和MP70-T机型还可以通过Umi Smart app进行控制。请从各应用市场搜索并下载“Umi Smart”应用,或扫描控制器机身身上的二维码安装APP。

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4. 开机/待机
打开控制器或关闭到待机状态。
5. 播放/暂停
暂停动态模式或者重新开始播放。暂停状态下,控制器如果收到新指令会退出暂停状态。

6. 程序调整
调整播放程序。按“+”键跳转到下一个模式,按“-”键跳转到上一个模式。

7. 动态速度/静态亮度
调整动态效果的运行速度或静态颜色的亮度。按“+”键增加,“-”键减少。

8. 动态模式的单位长度
调整动态模式的程序单元长度。按“+”键增加,“-”键减少。

9. 切换运行方向
切换动态程序的运行方向。对于大多数程序有4个运行方向,包括正向、反向、两边向中间和中间向两边。方向设置不适用于没有方向功能的动态程序。

10. 程序直接设置
用户可以通过键入以“ENTER”键结尾的程序号来选择所需的程序。
例如如果要切换到程序123,请按1-2-3键,再按ENTER键完成设置。
演示模式:程序号0是动态演示模式,演示模式下控制器将自动循环播放所有动态程序。

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20. 可断电保持的定时播放功能(仅限-T机型)
MP70-T机型配备了带后备电源的实时钟功能。用户可以通过Umi Smart应用设置可编辑日期、时间和灯具状态的定时播放功能。
本机的时钟在连接到手机后会自动校准,后备电源可以确保在断电48小时内仍正常运行定时播放设置。在断电且后备电源用尽的情况下定时播放功能会暂时失效,在控制器再次连接手机后即可自动恢复。

21. IP68防水(仅限-S机型)
后缀为-S版本的控制器应用了注胶防水工艺,可以达到IP68的防水等级。为了确保整体的防水效果,需要对输入输出电缆做单独的防水处理。

规格

- 工作电压: 控制器DC 5V-24V, 遥控器3V
- 无线频段: 蓝牙自组网, 2.4GHz ISM
- 驱动点数: 500/1000像素
- 防水等级: -S版IP68, 其他版本IP63
- 工作温度: -20~55℃(-4~131°F)

扫码下载APP:
(-A/-T机型)



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■ 程序列表

	彗星	流水	渐变	流星	沙漏	乒乓	摇摆	星光闪烁	整体变换	静态颜色
节目号	0-	1-	2-	3-	4-	5-	6-	7-	8-	9-
01	白	白	白	白	白	白	白	白	白渐变	红
02	红	红	红	红	红	红	红	红	红渐变	橙1
03	橙	橙	橙	橙	橙	橙	橙	橙	橙渐变	橙2
04	黄	黄	黄	黄	黄	黄	黄	黄	黄渐变	黄1
05	绿	绿	绿	绿	绿	绿	绿	绿	绿渐变	黄2
06	青	青	青	青	青	青	青	青	青渐变	黄3
07	蓝	蓝	蓝	蓝	蓝	蓝	蓝	蓝	蓝渐变	绿
08	紫	紫	紫	紫	紫	紫	紫	紫	紫渐变	青1
09	粉红	粉红	粉红	粉红	粉红	粉红	粉红	粉红	粉红渐变	青2
10	白-红	白-红	白-红	白-红	白-红	白-红	白-红	白-红	白-红渐变	青3
11	白-黄	白-黄	白-黄	白-黄	白-黄	白-黄	白-黄	白-黄	白-黄渐变	青4
12	白-绿	白-绿	白-绿	白-绿	白-绿	白-绿	白-绿	白-绿	白-绿渐变	青5
13	白-青	白-青	白-青	白-青	白-青	白-青	白-青	白-青	白-青渐变	蓝
14	白-蓝	白-蓝	白-蓝	白-蓝	白-蓝	白-蓝	白-蓝	白-蓝	白-蓝渐变	紫1
15	白-紫	白-紫	白-紫	白-紫	白-紫	白-紫	白-紫	白-紫	白-紫渐变	紫2
16	红-黄	红-黄	红-黄	红-黄	红-黄	红-黄	红-黄	红-黄	红-黄渐变	紫3
17	黄-绿	黄-绿	黄-绿	黄-绿	黄-绿	黄-绿	黄-绿	黄-绿	黄-绿渐变	紫4
18	绿-红	绿-红	绿-红	绿-红	绿-红	绿-红	绿-红	绿-红	绿-红渐变	紫5
19	绿-青	绿-青	绿-青	绿-青	绿-青	绿-青	绿-青	绿-青	绿-青渐变	混合RGB1
20	青-蓝	青-蓝	青-蓝	青-蓝	青-蓝	青-蓝	青-蓝	青-蓝	青-蓝渐变	混合RGB2
21	绿-蓝	绿-蓝	绿-蓝	绿-蓝	绿-蓝	绿-蓝	绿-蓝	绿-蓝	绿-蓝渐变	混合RGB3
22	蓝-紫	蓝-紫	蓝-紫	蓝-紫	蓝-紫	蓝-紫	蓝-紫	蓝-紫	蓝-紫渐变	混合RGB4
23	紫-红	紫-红	紫-红	紫-红	紫-红	紫-红	紫-红	紫-红	紫-红渐变	混合RGB5
24	黄-蓝	黄-蓝	黄-蓝	黄-蓝	黄-蓝	黄-蓝	黄-蓝	黄-蓝	黄-蓝渐变	混合RGB6
25	蓝白红	蓝白红	蓝白红	蓝白红	蓝白红	蓝白红	蓝白红	蓝白红	蓝白红渐变	混合RGB7
26	绿白红	绿白红	绿白红	绿白红	绿白红	绿白红	绿白红	绿白红	绿白红渐变	混合RGB8
27	红白黄	红白黄	红白黄	红白黄	红白黄	红白黄	红白黄	红白黄	红白黄渐变	混合RGB9
28	红绿蓝	红绿蓝	红绿蓝	红绿蓝	红绿蓝	红绿蓝	红绿蓝	红绿蓝	红绿蓝渐变	混合RGB10
29	七色	七色	七色	七色	七色	七色	七色	七色	七色渐变	混合RGB11
30	白加红	白加红	白加红	白加红	白加红	白加红	白加红	白加红	白加红渐变	混合白
31	白加黄	白加黄	白加黄	白加黄	白加黄	白加黄	白加黄	白加黄	白加黄渐变	白
32	白加绿	白加绿	白加绿	白加绿	白加绿	白加绿	白加绿	白加绿	白加绿渐变	暖白1
33	白加青	白加青	白加青	白加青	白加青	白加青	白加青	白加青	白加青渐变	暖白2
34	白加蓝	白加蓝	白加蓝	白加蓝	白加蓝	白加蓝	白加蓝	白加蓝	白加蓝渐变	绿白
35	白加紫	白加紫	白加紫	白加紫	白加紫	白加紫	白加紫	白加紫	白加紫渐变	冷白1
36	白头红	空	空	空	空	空	空	空	红黄渐变	冷白2
37	白头橙	空	空	空	空	空	空	空	黄绿渐变	冷白3
38	白头黄	空	空	空	空	空	空	空	绿红渐变	空
39	白头绿	空	空	空	空	空	空	空	绿青渐变	空
40	白头青	空	空	空	空	空	空	空	青蓝渐变	空
41	白头蓝	空	空	空	空	空	空	空	绿蓝渐变	空
42	白头紫	空	空	空	空	空	空	空	蓝紫渐变	空
43	白头粉红	空	空	空	空	空	空	空	紫红渐变	空
44	白头红黄	空	空	空	空	空	空	空	黄蓝渐变	空
45	白头黄绿	空	空	空	空	空	空	空	蓝白红渐变	空
46	白头绿红	空	空	空	空	空	空	空	绿白红渐变	空
47	白头绿青	空	空	空	空	空	空	空	红白黄渐变	空
48	白头青蓝	空	空	空	空	空	空	空	红绿蓝渐变	空
49	白头绿蓝	空	空	空	空	空	空	空	七色渐变	空

■ 程序列表

	彗星	流水	渐变	流星	沙漏	乒乓	摇摆	星光闪烁	整体变换	静态颜色
节目号	0-	1-	2-	3-	4-	5-	6-	7-	8-	9-
50	白头蓝紫	空	空	空	空	空	空	空	空	空
51	白头紫红	空	空	空	空	空	空	空	空	空
52	白头黄蓝	空	空	空	空	空	空	空	空	空
53	空	空	空	空	空	空	空	空	空	空
54	空	空	空	空	空	空	空	空	空	空
55	红-白底	红-白底	红-白底	红-白底	红-白底	红-白底	红-白底	红-白底	红-白底	白开关
56	橙-白底	橙-白底	橙-白底	橙-白底	橙-白底	橙-白底	橙-白底	橙-白底	橙-白底	红开关
57	黄-白底	黄-白底	黄-白底	黄-白底	黄-白底	黄-白底	黄-白底	黄-白底	黄-白底	橙开关
58	绿-白底	绿-白底	绿-白底	绿-白底	绿-白底	绿-白底	绿-白底	绿-白底	绿-白底	黄开关
59	青-白底	青-白底	青-白底	青-白底	青-白底	青-白底	青-白底	青-白底	青-白底	绿开关
60	蓝-白底	蓝-白底	蓝-白底	蓝-白底	蓝-白底	蓝-白底	蓝-白底	蓝-白底	蓝-白底	青开关
61	紫-白底	紫-白底	紫-白底	紫-白底	紫-白底	紫-白底	紫-白底	紫-白底	紫-白底	蓝开关
62	白-白底	白-白底	白-白底	白-白底	白-白底	白-白底	白-白底	白-白底	白-白底	紫开关
63	红黄-白底	红黄-白底	红黄-白底	红黄-白底	红黄-白底	红黄-白底	红黄-白底	红黄-白底	红黄-白底	粉红开关
64	黄绿-白底	黄绿-白底	黄绿-白底	黄绿-白底	黄绿-白底	黄绿-白底	黄绿-白底	黄绿-白底	黄绿-白底	白红跳变
65	红绿-白底	红绿-白底	红绿-白底	红绿-白底	红绿-白底	红绿-白底	红绿-白底	红绿-白底	红绿-白底	白黄跳变
66	绿青-白底	绿青-白底	绿青-白底	绿青-白底	绿青-白底	绿青-白底	绿青-白底	绿青-白底	绿青-白底	白绿跳变
67	青蓝-白底	青蓝-白底	青蓝-白底	青蓝-白底	青蓝-白底	青蓝-白底	青蓝-白底	青蓝-白底	青蓝-白底	白青跳变
68	绿蓝-白底	绿蓝-白底	绿蓝-白底	绿蓝-白底	绿蓝-白底	绿蓝-白底	绿蓝-白底	绿蓝-白底	绿蓝-白底	白蓝跳变
69	蓝紫-白底	蓝紫-白底	蓝紫-白底	蓝紫-白底	蓝紫-白底	蓝紫-白底	蓝紫-白底	蓝紫-白底	蓝紫-白底	白紫跳变
70	紫红-白底	紫红-白底	紫红-白底	紫红-白底	紫红-白底	紫红-白底	紫红-白底	紫红-白底	紫红-白底	红黄跳变
71	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄蓝-白底	黄绿跳变
72	七色-白底	七色-白底	七色-白底	七色-白底	七色-白底	七色-白底	七色-白底	七色-白底	七色-白底	红绿跳变
73	白-红底	白-红底	白-红底	白-红底	白-红底	白-红底	白-红底	白-红底	白-红底	绿青跳变
74	白-黄底	白-黄底	白-黄底	白-黄底	白-黄底	白-黄底	白-黄底	白-黄底	白-黄底	青蓝跳变
75	白-绿底	白-绿底	白-绿底	白-绿底	白-绿底	白-绿底	白-绿底	白-绿底	白-绿底	绿蓝跳变
76	白-青底	白-青底	白-青底	白-青底	白-青底	白-青底	白-青底	白-青底	白-青底	蓝紫跳变
77	白-蓝底	白-蓝底	白-蓝底	白-蓝底	白-蓝底	白-蓝底	白-蓝底	白-蓝底	白-蓝底	紫红跳变
78	白-紫底	白-紫底	白-紫底	白-紫底	白-紫底	白-紫底	白-紫底	白-紫底	白-紫底	黄蓝跳变
79	红-红底	红-红底	红-红底	红-红底	红-红底	红-红底	红-红底	红-红底	红-红底	蓝白红跳变
80	橙-橙底	橙-橙底	橙-橙底	橙-橙底	橙-橙底	橙-橙底	橙-橙底	橙-橙底	橙-橙底	绿白红跳变
81	黄-黄底	黄-黄底	黄-黄底	黄-黄底	黄-黄底	黄-黄底	黄-黄底	黄-黄底	黄-黄底	红白黄跳变
82	绿-绿底	绿-绿底	绿-绿底	绿-绿底	绿-绿底	绿-绿底	绿-绿底	绿-绿底	绿-绿底	红绿蓝跳变
83	青-青底	青-青底	青-青底	青-青底	青-青底	青-青底	青-青底	青-青底	青-青底	七色跳变
84	蓝-蓝底	蓝-蓝底	蓝-蓝底	蓝-蓝底	蓝-蓝底	蓝-蓝底	蓝-蓝底	蓝-蓝底	蓝-蓝底	白加红开关
85	紫-紫底	紫-紫底	紫-紫底	紫-紫底	紫-紫底	紫-紫底	紫-紫底	紫-紫底	紫-紫底	白加黄开关
86	空	空	空	空	空	空	空	空	空	白加绿开关
87	空	空	空	空	空	空	空	空	空	白加青开关
88	空	空	空	空	空	空	空	空	空	白加蓝开关
89	空	空	空	空	空	空	空	空	空	白加紫开关
90	空	空	空	空	空	空	空	空	空	白加红渐变
91	空	空	空	空	空	空	空	空	空	白加黄渐变
92	空	空	空	空	空	空	空	空	空	白加绿渐变
93	空	空	空	空	空	空	空	空	空	白加青渐变
94	空	空	空	空	空	空	空	空	空	白加蓝渐变
95	空	空	空	空	空	空	空	空	空	白加紫渐变

备注：

1. 蓝色背景的节目仅适用于 RGBW 灯具。
2. 程序“0”为演示模式。