

HX-D016 wifi led controller

Category: WiFi and Smart Controllers

Source model: HX-D016 wifi led controller

Internal reference: HOION-CTRL-059

Product Overview

D016 WIFI led controller for LED RGBW Strips

Controller adopts the most advanced PWM (Pulse Width Modulation) digital control technology, it is used for controlling constant voltage LED RGBW lamps. For instance, point source of light, flexible light strip, led modules, led strings and so on. Can be controlled by both RF 2.4GHz remote control and WIFI APP, the WIFI control technology powered by Tuya.

Technical Details

Product Features

Short-circuit protection.

DC12-24V, four channels output, Max. load current: 3CH*5A; Max. load power: 180W/12V; 360W/24V.

RF remote control is optional, 3 compatible remote controls for options.

WIFI technology powered by Tuya, And compatible with voice control via Amazon Alexa, Google Assistant, Yandex Alice and so on..

Memory function, each time power-on reserve the mode which stop in the last power-off.

Warranty of this product is three years, exclude the artificial situation of damaged or overload working.

Technical Parameters

Controller

| Working temperature | -20-60℃ | Supply voltage | DC12V-24V

| Static power consumption | <1W | Connecting mode | Common anode

| Grayscale | 1024 levels | Speed stage | 100 levels

| External dimension | L70*W40*H20 mm | Packing size | L95*W47*H33mm

| Net weight | 65g | Gross weight | 80g

| RF frequency | 2.4GHz | RF distance | ≤20m

| Short circuit protection | Yes | Memory function | Yes

| Output | 3 channels | Output current | ≤5A(each channel)

| PWM frequency | 1.95KHz | Max. Output power | 12V:<180W, 24V:<360W

Dimensions

Interface Specifications

Direction for use

1

1/4"

WIFI controlled by Tuya Application to achieve smart control like group control, scene control, timer control, music control and so on.

Scan QR code from controller to download Tuya application: (Tuya).

Long pressing "Reset" button on controller and hold for 5 seconds until the loading LEDs flashing to start the connection with Tuya APP. Please read operation instruction of App, or following the pop-up prompt message with the APP, to finish the rest connection operation.

And compatible with voice control via Amazon Alexa, Google Assistant, Yandex Alice and so on.

HX-D016 wifi led controller

2

1/4

Remote controlled by RF 2.4GHz remote control as below:

|

Option 1 |

Option 2 |

Option 3

|||

| SWC-RGB-2.4G | RFBK-RGB-2.4G(RGB function) | HWP86-RGB-2.4G

Please pair the WIFI controller to remote control before using. The operation instruction and functions can be found from manuals of remote control.

Wireless-synchronization function under remote controlled type

Receivers will transmit the control signals from the remote control and self-inspection the work statuses for each other, so multiple receivers can wireless-sync-work completely when be paired to the same one remote control, not only static mode but also dynamic mode, to achieve wired-like operation experience.

In order to achieve perfect wireless synchronization effect, please keep the distance between receivers within 10 meters as above show.

The function of each remote as below:

A. SWC-RGB-2.4G

The function of each button as below:

|

Name of key |

Instruction |

Remarks

| OFF | OFF in any time |

| PAUSE | Pause/Run for dynamic modes |

| Mode | The mode will go to next, when you touch the key each time | 9 modes in total

| Speed/Brightness + | The Speed/Brightness will +1, when touch the key each time | Speed for dynamic modes, Brightness for static modes

| Speed/Brightness - | The Speed/Brightness will -1, when touch the key each time

| Color Ring | For static color selection |

9 modes in total as below:

|

No |

Patterns |

No |

Patterns

| 1 | Static white | 6 | Seven-color gradient changing

| 2 | White breath | 7 | R/G cross fade

| 3 | Three-color jump changing | 8 | R/B cross fade

| 4 | Seven-color jump changing | 9 | G/B cross fade

| 5 | Three-color gradient changing | |

B. RFBK-RGB-2.4G(RGB function)

| Name | Description

HX-D016 wifi led controller

| | Nonfunctional.

| | RGB channels-Turn on.

| | RGB channels-Turn off.

| Color ring | Static color options, 64 colors in total.

| | Dynamic modes, 8 modes in total.

| | W channel-Turn ON/OFF.

| | W channel- brightness -, 1024 levels, long-press can get fast adjusting.

| | W channel- brightness +, 1024 levels, long-press can get fast adjusting.

| | Brightness – for static colors by 1024 levels. Long-press get fast adjusting.

| | Brightness + for static colors by 1024 levels. Long-press get fast adjusting.

| | Speed down for dynamic mode (100 levels). Long-press get fast adjusting.

| | Speed up for dynamic mode (100 levels). Long-press get fast adjusting.

| | Zone selection, 2 seconds long-press get “all-control

8 dynamic modes as below:

|

No |

Patterns |

Remarks |

No |

Patterns |

Remarks

| 1 | White breathe | Speed is adjustable,
brightness is unadjustable | 5 | 7 color fade | Speed is adjustable,
brightness is unadjustable

| 2 | 3 color jumpy | 6 | R/G cross fade

| 3 | 7 color jumpy | 7 | R/B cross fade

| 4 | 3 color fade | 8 | G/B cross fade

C. HWP86-RGB-2.4G

The function of each button as below:

|

Name of key |

Instruction |

Remarks

| RGB | ON/OFF key for RGB channels |

| C/W | ON/OFF key for CW/WW channels |

| Mode | The mode will go to next, when you touch the key each time | 9 modes in total.

| Speed/Brightness + | The Speed/Brightness will +1, when touch the key each time | Speed for dynamic modes, Brightness for static modes .

| Speed/Brightness - | The Speed/Brightness will -1, when touch the key each time

| Color Ring | For RGB channels static color selection |

9 modes in total as below:

HX-D016 wifi led controller

|
No |
Patterns |
No |
Patterns

| 1 | Static white | 6 | Seven-color gradient changing
| 2 | White breath | 7 | R/G cross fade
| 3 | Three-color jump changing | 8 | R/B cross fade
| 4 | Seven-color jump changing | 9 | G/B cross fade
| 5 | Three-color gradient changing | |

Typical Applications

Product information for placing order

| Product name | Item number
| D016 series WIFI led controller for RGBW |
WIFI controller: D016

Remote control(optional): HX-SWC-RGBW-2.4G
HX-RFBK-RGB-2.4G
HX-HWP86-RGBW-2.4G

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/WIFIzhinenkongzhiqi/2021/0419/366.html>