

HX-D016 wifi led controller

Category: 2.4GHz Wireless Sync Controllers

Source model: HX-D016 wifi led controller

Internal reference: HOION-CTRL-009

Product Overview

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.

2

1/4"

Remote controlled by RF 2.4GHz remote control as below:

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Option 1
Option 2
Option 3

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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
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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
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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
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5 Three-color gradient changing

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

Name Description

Nonfunctional.

RGB channels-Turn on.

RGB channels-Turn off.

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| 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:

No
Patterns
No
Patterns

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| 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/2_4Gtongbukongzhiqi/2021/0417/315.html