

HX-D01X series wifi led controller

Category: RGB Controllers

Source model: HX-D01X series wifi led controller

Internal reference: HOION-CTRL-032

Product Overview

D01X series WIFI led controller for DIM/CCT/RGB/RGBW

Controller adopts the most advanced PWM (Pulse Width Modulation) digital control technology, it is used for controlling constant voltage LED lamps. For instance, point source of light, flexible light strip, led modules, led strings and so on. D011 for single color, D012 for dual white, D013 for RGB, D014 for RGBW. The WIFI control technology powered by Tuya.

Technical Details

Product Features

WIFI technology powered by Tuya.

Short-circuit protection.

DC12-24V, four channels output, Max. load current: 4CH*4A; Max. load power: 192W/12V; 384W/24V.

RF remote control is optional, compatible remote control item: RFBT15.

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

Designed for constant voltage LED lights, D011 for single color, D012 for dual white, D013 for RGB, D014 for RGBW.

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 | 1024 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 | 4 channels | Output current | ≤4A(each channel)

| PWM frequency | 1KHz | Max. Output power | 12V:<192W, 24V:<384W

Remote control (optional)

| Working temperature | -20-60℃ | Working voltage | 3V(AAA*2PCS)

| Sleep current | <25uA | Emission current | <17mA

| Sleep power consumption | <75uW | Emission power consumption | <51mW

| Net weight | 80g | Dimension | Φ60*35mm

| RF distance | ≤30m | RF frequency | 2.4GHz

| Accessories | holder 1pc, 3M foam sponge glue 1pc.

Dimensions

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Interface Specifications

D011: 1/4 V+, W, W, W, W

D012: 1/4 V+, CW, WW, CW, WW

D013: 1/4 V+, R, G, B

D014: 1/4 V+, R, G, B, W

Remote Control Function

DIM

(work with single color receiver), item: D011

ON/OFF: Short-click

Adjusting brightness: Rotating / Pressing+Rotating (Turning from modes to adjust brightness:)

Modes: Double-short-click

Modes list

No.
Mode
Marks

| 1 | Flash | Rotating to adjust the speed

| 2 | Fade

CCT

(work with CW+WW receiver) , item: D012

ON/OFF: Short-click

Adjusting brightness: Rotating/ Pressing+Rotating (Turning from modes to adjust brightness:)

Adjusting CCT: Pressing+Rotating

Modes: Double-short-click

Modes list

No.
Mode
Marks
No.
Mode
Marks

| 1 | WW+CW flash | Rotating to adjust the speed | 3 | WW/CW flash in turn | Rotating to adjust the speed

| 2 | WW+CW fade | 4 | WW/CW fade in turn

RGB

(work with RGB receiver), item: D013

ON/OFF: Short-click

Adjusting brightness/speed: Rotating

Adjusting color: Pressing+Rotating

Modes: Double-short-click

Modes list

No.
Mode
Marks
No.
Mode

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Marks

| 1 | 3 colors flash | Rotating to adjust the speed | 5 | White flash | Rotating to adjust the speed

| 2 | 7 colors flash | 6 | White fade

| 3 | 3 colors fade | 7 | Red-blue fade

| 4 | 7 colors fade | 8 | Green-blue fade

RGBW

(work with RGBW receiver) , item: D014

ON/OFF: Short-click

RGB/W switching: 2s-long-pressing

Adjusting brightness/speed: Rotating

Adjusting color: Pressing+Rotating

Modes: Double-short-click

Hotkey: 3 times-short-click to overall ON/OFF

Modes list

No.	Mode	Marks

| 1 | 3 colors flash | Rotating to adjust the speed | 5 | White flash | Rotating to adjust the speed

| 2 | 7 colors flash | 6 | White fade

| 3 | 3 colors fade | 7 | Red-blue fade

| 4 | 7 colors fade | 8 | Green-blue fade

Direction for use

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 to start the connection with 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.

Remote controlled by RFBT15

Please pair the controller to RFBT15 remote control before using. The operation instruction and functions can be find from manual of RFBT15 remote control.

Typical Applications

Application Circuit of D011: single color

Application Circuit of D012: CW+WW

Application Circuit of D013: RGB

Application Circuit of D014: RGBW

Product information for placing order

| Product name | Item number

| D01 series WIFI led controller for DIM/CCT/RGB/RGBW |

Single color: D011

Dual white: D012

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RGB: D013

RGBW: D014

Remote control(optional): HX-RFBT15

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/RGBkongzhiqi/2021/0417/339.html>