

HX-SZ600-TOUCH

Category: RGBW Controllers

Source model: HX-SZ600-TOUCH

Internal reference: HOION-CTRL-053

Product Overview

LED RGB Controller with full touch remote control

Controller adopts the advanced micro control unit, it is used for controlling a variety of LED lamps. For instance, point source of light, flexible light strip and so on; it has many advantages such as touch remote control, easy connection and simply to use. Meanwhile, you can adjust brightness, static color choices and various dynamic changes in lighting effects through wireless touch remote control. And according to the actual need of customers

Technical Details

Product Feature

Controller is constant voltage, suit for all kinds of the constant voltage LED RGB lamps.

There is a RF remote touch control 5 functions, 1 color ring and 1 color sense lamp in the center, all buttons are in the touch form, the color ring have 128 levels in different colors.

There are 10 modes in total, including 1 white static colors and 9 dynamic modes. The brightness of all static color and the speed of the dynamic modes are adjustable.

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

The brightness of static color is adjustable, 256 levels in total; the speed of dynamic changes is adjustable, 100 levels in total.

Long-press the brightness and speed key can get the fast adjustment, convenient for operation.

Multiple controllers can work synchronically when connected by network cable through the RJ45 connector, the network cable between 2 ports up to 100 meters.

Warranty of this product is two 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 | 256 levels 1/4 RGB each 1/4 | Speed stage | 100 grade

| External dimension | L91*W88*H24 mm | Packing size | L108*W108*H50 mm

| Net weight | 290g | Gross weight | 320g

| Mode | 10 | Remote distance | Up to 20M

| RF frequency | 433.92Mhz | Memory function | support

| Output | 3 channels | Output current | ≤10A(each channel)

| PWM frequency | 400Hz | Max. Output power | 12V:<360W, 24V:<720W

Remote control

| Working temperature | -20℃~60℃ | Supply voltage | DC4.5V 1/4 AAA*3pcs 1/4

| Standby current | <8uA | Working current | <30mA

| Standby power | <36uW | Working power | 135mW

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| Net weight | 90g | RF frequency | 433.92MHz

| External dimension | L113*W55*H22 mm | RF distance | ≤20m

External Dimension

Packing box: L108*W108*H50 mm

Interface Specifications

RGB Connection: V+ → COM → CH1 → R → CH2 → G → CH3 → B

Direction for use

This product use RF touch control, with one color ring and 5 function buttons.

Tips: Without any operation more than 20 seconds, the touch remote will enter the sleep state, please SHAKE the remote to wake up it before the next using.

The function of each button as below:

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Name of key |

Instruction |

Remarks

| ON/OFF | ON or OFF in any time |

| Pause | Pause or Continue |

| Mode | The mode will go to next, when you touch the key each time | 10 modes in total.

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

| Speed/Brightness - | The Speed/Brightness will subtract, when you touch the key each time | Speed for dynamic modes, Brightness for static modes.

| Color Ring | Touch any color which you want |

10 modes in total as below:

|

No |

Patterns |

Remarks

| 1 | Static white | Brightness is adjustable

| 2 | White flash | Speed is adjustable, brightness is unadjustable

| 3 | White breath

| 4 | Three-color jump changing

| 5 | Seven-color jump changing

| 6 | Three-color gradient changing

| 7 | Seven-color gradient changing

| 8 | R/G cross fade

| 9 | R/B cross fade

| 10 | G/B cross fade

RF CODE

Tips: Receiver can be controlled by any one the same remote as factory default; full touch remote control delivered with unique RF code as factory default; if unique-control is needed, please matching the code before installation and using.

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Matching code operation

If unique-control or new-coded-remote is needed, pairing the remote and the receiver as below operation instruction before using:

Step 1 : Pressing key “

Mode ” and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.

Step 2 : Continuously to press the key

“Pause “ for 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10% as responding.

Code learning successfully, the LEDs will be back to the status before the power off, and the receiver only can be control by the remote.

If not, please re-operate from step 1 to 2.

Clear code operation

Back to factory default, wall-panel can be controlled by any one the same remote control.

Step 1 : Pressing key “

Mode ” and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.

Step 2 : Continuously to press

“

Speed/Brightness -

“ 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10% as responding.

Code clearing successfully, the LEDs will be back to the status before the power off, and the receiver can be controlled by any remote control(any one the same remote control can be used to clear the code).

If not, please re-operate from step 1 to 2.

Notice

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1i¼□ Each controller can save 3 different RF codes (it means each driver can be controlled by 4 different-code remote in the Max).If there is confusion,, more remote control all can control, you need to clear the code and then use the specified remote control re-code with the controller.

2i¼□ Anyone the same model remote control or the remote control not the same model but compatible with each other can be used to clear code.

Typical Applications

Application Circuit 1: (V+→COMā□□CH1→Rā□□CH2→Gā□□CH3→B.)

Application Circuit 2:(Synchronization function with network Line i¼□)

Tips: The green signal indicator light will uniform flash with proper communication, and will off with any incorrect signal connection (like: poor contact, confused input and output, wrong wire order).

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/RGBWkongzhiqui/2021/0419/360.html>