

HX-D5

Category: RGBW Controllers

Source model: HX-D5

Internal reference: HOION-CTRL-044

Product Overview

RGB/RGBW 2 in 1 LED controller with RF TOUCH remote control

Controller adopts the advanced micro control units; it is used for controlling a variety of LED light. For instance, point source of light, flexible light strip, wall washer lamp and so on. It has many advantages such as good appearance, easy connection and simplicity to use. Adopts RF touch remote control to ON/OFF, choose colors/ dynamic modes, simplicity to use. Especially, it is integrated 2 optional programs for different color typ

Technical Details

Product Features:

This product is a constant voltage controller, the standard product power supply voltage 5-24V is a wide voltage, and the power supply in this range can be used universally;

Output current: 3chs * 5A (RGB), 4chs * 4A (RGBW);

With power-off memory storage function;

Adopts RF touch wireless remote control, the maximum distance can reach 20 meters;

Adopts color ring to achieve 64 colors and 10 modes, the brightness of all static color and the speed of the dynamic modes are adjustable.

Both remote control and receiver are 2 in 1 for RGB and RGBW, one product for 2 types of LED strips;

Short circuit protection function;

3-year warranty.

Technical Parameters

Controller

| Working temperature | -20-60℃ | Supply voltage | DC5V-24V

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

| Grayscale | 1024 levels | RGB each 1/4 | Speed stage | 100 grade

| External dimension | L70*W40*20mm | Packing size | L90*W54*H32 mm

| Net weight | 45g | Gross weight | 70g

| Output | 3/4 channels | Max. Output current | 3CH*5A(RGB) / 4CH*4A (RGBW)

| RF frequency | 433.92Mhz | Remote distance | Up to 20M

| PWM frequency | 1.95KHz | Memory function | Yes

| Short-circuit protection | Yes | Max. Output power | RGB: 75W(5V); 180W(12V); 360W(24V)
RGBW: 80W(5V); 192W(12V); 384W(24V)

Touch remote control:

| Working temperature | -20-60℃ | Supply voltage | 4.5V 1/4 AAA*3PCSI 1/4

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

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

| Net weight | 95g | External dimension | L150*W40*H20 (mm)

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| RF distance | ≤20m | RF frequency | 433.92MHz

Interface Specifications

Direction for use

Connect the load wires at first, followed by the power wires.

Use the SET button to set the output type to be consistent with the type of LEDs connected to the load. The indicator flashes slowly: RGB, flashes quickly: RGBW.

Adopts 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.

Key functions

	Button	Instruction	Remarks

		RGB channels ON/OFF in any time for both RGB/RGBW type receiver	
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		Play/pause for RGB type receiver; W channel ON/OFF for RGBW receiver	
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		Color ring for color selection	
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		For RGB white and Dynamic modes 10 modes in total	
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		Increase speed/brightness level, long-pressing can get fast adjustment Speed for dynamic modes, Brightness for static modes.	
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		Reduce speed/brightness level, long-pressing can get fast adjustment	
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10 modes in total as below:

	No	Patterns	Remarks

	1	Static white	Brightness is adjustable
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	2	White flash	Speed is adjustable, brightness is unadjustable
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	3	White breath	
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	4	Three-color jump changing	
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	5	Seven-color jump changing	
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	6	Three-color gradient changing	
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	7	Seven-color gradient changing	
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	8	R/G cross fade	
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	9	R/B cross fade	
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	10	G/B cross fade	
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RF CODE

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

Matching code operation

Receiver and Remote Control are coded as default, matching them before using, if unique-control or new-coded-remote is needed, pairing the

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remote and the receiver as below operation instructions before using:

Method 1:

- 1.
- Step 1 : Pressing key "MODE" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
- 2.
- Step 2 : Pressing "PAUSE " or "W ON/OFF" 3times in 3 seconds, corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.
- 3.Code learning successfully, the receiver only can be controlled by the remote.
- 4.If not, please re-operate from step 1 to 2.

Method 2:

- 1.
- Step 1 : Power on the controller after well connection.
- 2.
- Step 2 : 5 seconds long pressing of the "SET" button (on receiver) until the indicator light lights up, pressing "MODE" (on remote control) 1 time to finish ("SET" button should be pressed also at the meanwhile), will see the load LEDs flash 3 times by successful operation.
- 3.Code learning successfully, the receiver only can be controlled by the remote.
- 4.If not, please re-operate from step 1 to 2.

Clear code operation

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

Method 1:

- 1.
- Step 1 : Pressing key "MODE" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
- 2.
- Step 2 : Pressing "DOWN" 3times in 3 seconds, corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.
- 3.
- Step 3: Code learning successfully, the receiver only can be controlled by the remote.
- 4.If not, please re-operate from step 1 to 2.

Method 2:

- 1.
- Step 1 : Power on the controller after well connection.
- 2.
- Step 2 : 5 seconds long pressing of the "SET" button (on receiver) until the indicator light lights up, pressing "DOWN" (on remote control) 1 time to finish ("SET" button should be pressed also at the meanwhile), will see the load LEDs flash 3 times by successful operation.
- 3.Code learning successfully, the receiver only can be controlled by the remote.
- 4.If not, please re-operate from step 1 to 2.

Typical Applications

Application Circuit 1: RGB

Application Circuit 2: RGBW

Product information for placing order

| Product name | Item number

| RGB/RGBW 2 in 1 LED controller with RF touch remote control | HX-D5

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/RGBWkongzhiqu/2021/0419/351.html>