

HX-RFBT002-RGB

Category: RGBW Controllers

Source model: HX-RFBT002-RGB

Internal reference: HOION-CTRL-048

Product Overview

RF BT remote controller-RGB

Controller adopts the most advanced PWM (Pulse Width Modulation) digital control technology, it is used for controlling constant voltage LED RGB lamps. For instance, point source of light, flexible light strip, led modules, led strings and so on; It belongs to low-voltage DC power input and output with four interfaces, including + V is extremely common interfaces, the other three for the RGB control interface. Meanwhile, you could adjust brightness, static color choic

Technical Details

Product Features

Designed for RGB constant voltage LED lights, Working voltage DC12-24V.

Three channels output, Max. load current: 3CH*10A; Max. load power: 360W/12V; 720W/24V.

Adopts RF 14keys remote control with fashion appearance, no need line-of-sight. Control range up to 20 meters.

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

18 modes in total, including 8 static colors and 10 dynamic changes.

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 | Speed stage | 100 grade

| External dimension | L91*W88*H24 mm | Packing size | L150*W92*H64mm

| Net weight | 250g | Gross weight | 290g

| Mode | 18 | RF distance | ≤20M

| RF frequency | 433.92Mhz | Memory function | support

| Output | 2 channels | Output current | ≤10A(each channel)

| PWM frequency | 400Hz | Max. Output power | 12V360W, 24V720W

Remote control

| Working temperature | -20℃~60℃ | Supply voltage | DC3V1/4AAA*21/4

| Standby current | <18uA | Working current | <25mA

| Standby power | 54uW | Working power | 75mW

HX-RFBT002-RGB

| Net weight | 65g | RF frequency | 433.92Mhz

| External dimension | L150*W40*H20 mm | RF distance | ≤20m

Interface Specifications

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

Direction for use

Connect the load wire at first, followed by the power wire; Please ensure short circuit can not occur between wires before turning on the power.

Adopts RF remote technology, 14 buttons in total;

The signal light flash-- represents the signal has been received well;

The function of buttons are shown as below:

Name of key	Function description
on	Turn on the controller output
off	Turn off the controller output
Dynamic mode+	For dynamic mode selection(9-17), each time pressing dynamic mode +1
Dynamic mode-	For dynamic mode selection(9-17), each time pressing dynamic mode -1
Static mode+	For static color selection(1-7), each time pressing static mode+1
Static mode-	For static color selection(1-7), each time pressing static mode-1
White color	White color hot key(mode 8)
100% brightness	press this key goes to 100% brightness for the present color
Brightness+	Each time pressing brightness +1, 256 levels in total, long-pressing can get fast adjustment
Brightness-	Each time pressing brightness -1, 256 levels in total, long-pressing can get fast adjustment
Speed+	Each time pressing speed +1, 100 levels in total, long-pressing can get fast adjustment
Speed-	Each time pressing speed -1, 100 levels in total, long-pressing can get fast adjustment
Automatic cycle	All dynamic modes are automatically circulating in order

Standard color changes as follows:

No	Patterns
Remarks	
1	Static red Brightness is adjustable, speed is unadjustable
2	Static green
3	Static blue
4	Static orange
5	Static yellow
6	Static purple
7	Static cyan
8	Static white

- | 9 | White flash | Speed / brightness are adjustable
- | 10 | White breathe | Speed is adjustable, brightness is unadjustable
- | 11 | 3 color jumpy | Speed / brightness are adjustable
- | 12 | 7 color jumpy
- | 13 | 3 color fade | Speed is adjustable, brightness is unadjustable
- | 14 | 7 color fade
- | 15 | R/G cross fade
- | 16 | R/B cross fade
- | 17 | G/B cross fade
- | 18 | 9-17Autonomic cycle

Tips: Receiver can be controlled by any one the same remote as factory default; RF BT 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

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

Step 2 : Continuously to press the key

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

Step 2 : Continuously to press

"Delay button" 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.

Typical Applications

Application Circuit 1: (V+→COM→CH1→R→CH2→G→CH3→B.)

Application Circuit 2:(Synchronization function with network Line)

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/RGBWkongzhiqu/2021/0419/355.html>