

HX-RFBT002-DIM

Category: Tunable White / CCT Controllers

Source model: HX-RFBT002-DIM

Internal reference: HOION-CTRL-022

Product Overview

LED Sync Dimmer with RF button remote

Dimmer adopts the most advanced PWM (Pulse Width Modulation) digital dimming technology, especially design for single color led strip. For instance, point source of light, flexible light strip, led modules, led strings and so on. Belong to low-voltage DC power input and output with two interfaces, including V+ is the positive interfaces, the other three for the negative interface. Meanwhile, you can turn on/off, adjust brightness for different lighting effect

Technical Details

Product Feature

Designed for single color 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.

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 | Mode | 3

| Grayscale | 256 levels | Speed stage | 100 grade

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

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

| PWM frequency | 400Hz | RF distance | ≤20m

| RF frequency | 433.92Mhz | Memory function | support

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

| Output power | 360W/12V;720W/24V

Remote control

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

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

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

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

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

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Interface Specifications

Connection: V+ → COM → CH1 → V- → CH2 → V- → CH3 → V-

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	Description
Set button	For setting the night light and matching code with receiver. Under night light mode, press "Set button" and hold on for 10 seconds will go into the night light setting. Press the set button again to save the setting and quit out.
ON	Turn on
OFF	Turn off
Brightness +	The brightness will add 1 level after each time press. Long-press can get fast adjusting.
Brightness -	The brightness will reduce 1 level after each time press. Long-press can get fast adjusting.
Hot brightness key +	4 levels brightness (10% → 30% → 70% → 100%) hot selection key, lights will go to next one after each pressing.
Hot brightness key -	4 levels brightness (10% → 30% → 70% → 100%) hot selection key, lights will go to last one after each pressing.
Mode key	3 modes in total: 100% static, flash, breathe
Night light	Press the button go to night light mode.
Setting	Under night light mode, press "Set button" and hold on for 10 seconds will go into the night light setting, press the left button to down the brightness, press the right button to up the brightness. Adjustable range: 1%-10%.
Speed +	Add the speed of dynamic mode. Long-press can get fast adjusting.
Speed -	Reduce the speed of dynamic mode. Long-press can get fast adjusting.
Delay button	The light will be delay off in 30 seconds.

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

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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

Conjunction diagram 1: (V+→COM↔CH1→V-↔CH2→V-↔CH3→V-¼)

Conjunction diagram 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/LEDshuangsewenkongzhiqi/2021/0417/329.html>