

HX-RFBT02

Category: Remote Controls and Wall Panels
Source model: HX-RFBT02
Internal reference: HOION-CTRL-085

Product Overview

Product description
RF 2.4G Remote Control

Technical Details

Technical Parameters

- | Working temperature | 0-40℃ | Working voltage | 3V 1/4 AAA*2PCS 1/4
- | Standby current | <20uA | Emission current | <20mA
- | Standby power consumption | <60uW | Emission power consumption | <60mW
- | Net weight | 45g | Dimension | L108*W36*H22 (mm)
- | RF distance | ≤30m | RF frequency | 2.4GHz
- | Accessories | bracket 1pc, 3M foam sponge glue 1pc, screw 2pcs, expansion tube 2pcs.

Series

|
Item |
Picture |
Function

| RFBT02A | | RGB
RGBW/RGB+W
RGBCW/RGB+CCT

| RFBT02B | | Single color
CCT/CW+WW

Direction for use

The remote control function keys are composed of 1 color ring and 8 buttons. It is a multi-function remote control, which can be used to control DIM/CCT/RGB/RGBW/RGBCW LEDs. The functions are as follows:

Type 1: RGB

|
Name of key |
Description

- | | ON/OFF in any time
- | | Static color options, 64 colors in total.
- | | Dynamic modes, 8 modes in total.
- | W | Hot key for white color
- | C | Hot key for static colors(red, green, blue, yellow, purple, cyan)
- | B- | Brightness – for static colors by 1024 levels. Long-press can get fast adjusting.
- | B+ | Brightness + for static colors by 1024 levels. Long-press can get fast adjusting.
- | S- | Speed down for dynamic mode (100 levels). Long-press can get fast adjusting.

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| S+ | Speed up for dynamic mode (100 levels). Long-press can get fast adjusting.

8 dynamic modes as below:

|
No |
Patterns |
Remarks |
No |
Patterns |
Remarks

| 1 | White breathe | Speed is adjustable,
brightness is unadjustable | 5 | 7 color fade | Speed is adjustable,
brightness is unadjustable

| 2 | 3 color jumpy | 6 | R/G cross fade

| 3 | 7 color jumpy | 7 | R/B cross fade

| 4 | 3 color fade | 8 | G/B cross fade

Type 2: RGBW/RGB+W

|
Name of key |
Description

| | RGB channels ON/OFF in any time

| | RGB channels Static color options, 64 colors in total.

| | RGB channels Dynamic modes, 8 modes in total.

| W | W channel: Turn ON/OFF

| C | W channel: Brightness +/-, 1024 levels, long-press can get fast adjusting.

| B- | Brightness – for static colors by 1024 levels. Long-press can get fast adjusting.

| B+ | Brightness + for static colors by 1024 levels. Long-press can get fast adjusting.

| S- | Speed down for dynamic mode (100 levels). Long-press can get fast adjusting.

| S+ | Speed up for dynamic mode (100 levels). Long-press can get fast adjusting.

Tips: RGB channels and W channel are controlled independently.

8 dynamic modes as below:

|
No |
Patterns |
Remarks |
No |
Patterns |
Remarks

| 1 | White breathe | Speed is adjustable,
brightness is unadjustable | 5 | 7 color fade | Speed is adjustable,
brightness is unadjustable

| 2 | 3 color jumpy | 6 | R/G cross fade

| 3 | 7 color jumpy | 7 | R/B cross fade

| 4 | 3 color fade | 8 | G/B cross fade

Type 3: RGBCW/RGB+CCT

Name of key	Description
	RGB channels ON/OFF in any time
	RGB channels Static color options, 64 colors in total.
	RGB channels Dynamic modes, 8 modes in total.
W	CCT channels: Turn ON/OFF
C	CCT channels: color temperature +/-, short-press can get 3 quick levels, long-press can get stepless adjustment.
B-	Brightness – for RGB/CCT static colors. Long-press can get fast adjusting.
B+	Brightness + for RGB/CCT static colors. Long-press can get fast adjusting.
S-	Speed down for dynamic mode (100 levels). Long-press can get fast adjusting.
S+	Speed up for dynamic mode (100 levels). Long-press can get fast adjusting.

Tips: RGB channels and CW+WW channels are controlled independently.

8 dynamic modes as below:

No	Patterns
Remarks	
No	Patterns
Remarks	
1	White breathe Speed is adjustable, brightness is unadjustable
5	7 color fade Speed is adjustable, brightness is unadjustable
2	3 color jumpy 6 R/G cross fade
3	7 color jumpy 7 R/B cross fade
4	3 color fade 8 G/B cross fade

Type 4: CCT(CW+WW)

Name of key	Description
	ON/OFF in any time
	Static color temperature options, 127 levels in total.
	Dynamic modes, 4 modes in total: all flash, flash in turn, all fade, fade in turn.
W	Color temperature +, short-press can get 5 quick levels, long-press can get stepless adjustment.
C	Color temperature -, short-press can get 5 quick levels, long-press can get stepless adjustment.
B-	Brightness down for static status, long-press can get fast adjusting.
B+	Brightness up for static status, Long-press can get fast adjusting.
S-	Speed down for dynamic mode (100 levels). Long-press can get fast adjusting.

| S+ | Speed up for dynamic mode (100 levels). Long-press can get fast adjusting.

Type 5: DIM(Single color)

|

Name of key |

Description

| | ON/OFF in any time

| | Static brightness options, 127 levels in total.

| | Dynamic modes, 2 modes in total: flash, fade.

| W | Brightness + by 5 quick levels(1%, 10%, 30%, 70%, 100%)

| C | Brightness - by 5 quick levels(100%, 70%, 30%, 10%, 1%)

| B- | Brightness down for static status, long-press can get fast adjusting.

| B+ | Brightness up for static status, long-press can get fast adjusting.

| S- | Speed down for dynamic mode (100 levels). Long-press can get fast adjusting.

| S+ | Speed up for dynamic mode (100 levels). Long-press can get fast adjusting.

Wireless remote control code value setting method

The number of controllers and remote controls in one system is unlimited. 2.4G Smart system has one unique RF code for communication. Each controller and each remote control can remember only one RF code, recorded in the first programming. New RF code can be recorded after delete the old one.

Code matching operation: the receiver will only be controlled by the value code remote control.

| Step | Operation | Instructions

| 1 | Connecting the load to the receiver and power on it. | 1. It is necessary to clear the code first, if the receiver was coded before.

2. Batch operation can be performed within the remote control range.

3. Please remember to cut off other un-code zones power, or will be paired together.

| 2 | Press and hold (RGB ON/OFF key) on the remote control for 5 seconds | The RF indicator on the remote control will flash quickly, see the load light flashes 3 times and return to the initial state, means matching coding is finished successfully

| 3 | Press any key to exit and end the operation | Also will automatically exit code transmission status after 60 seconds

Code clearing operation: that the original code value of the receiver will be cleared and returned to the factory state. Then it can be controlled by any compatible remote control, also can be paired to a new code.

| Step | Operation | Instructions

| 1 | Connecting the load to the receiver and power on it. | 1. The clearing operation should be finished within 1 minute after the receiver is powered on.

2. Batch operation can be performed within the remote control range.

| 2 | Press and hold "M" on the remote control for 5 seconds | 1. The indicator of the remote control will flash quickly, see the load light flashes 3 times and return to the initial state, means clearing coding is finished successfully.

2. If the original remote control is lost, the new remote control can be used for clearing operations.

| 3 | Press any key to exit and end the operation | Also will automatically exit code transmission status after 60 seconds.

Code learning operation between remote controls: Used to unify system code values or copy a new remote control.

Since each remote control has its own unique RF code at the time of delivery, when there are multiple remote controls in one system, one of them must be selected as a main, and other remote controls should copy its RF code.

1)

Main remote control: Press and hold (RGB ON/OFF key) for 5 seconds. The RF indicator of the remote control will flash quickly, means it enters the sending code transmission status.

2)

New remote control: Press and hold "W" for 20 seconds, indicator will turn from 100% to off, release the finger and means it enters learning

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code status.

3) The RF Indicator of the new remote control flash 3 times after successful code learning.

Remote control RF code learning from controllers

1) Turn off the power supply of the controllers.

2) Press and hold "W" for 20 seconds, indicator will turn from 100% to off, release the finger and means it enters learning code status.

3) Turn on the power supply of the controllers. The RF indicator of the remote control flashes 3 times after successful code learning.

Note: The distance from controllers to remote controls should be less than 2 meters.

Restoring factory settings of remote control

1) Press and hold "W" for 30 seconds, indicator will turn from 100% to off on 20 seconds and light up again on 30 seconds, release the finger and finish the step 1.

2) Press "M" to submit and finish the operation. Indicator of the remote control will flash three times after successful operation.

About installation of remote control's bracket:

1. Accessories include: bracket 1pc, 3M foam sponge glue 1pc, screw 2pcs, expansion tube 2pc.

2. There are 2 options for bracket installation:

1) Using screw and expansion tube make drilling installation (suitable for uneven and ash surface);

2) Using 3M foam sponge glue make free drilling installation (suitable for flat no ash surface).

Compatible family

|
Remote control |
Receiver |
Other compatible remote control |
Compatible repeater

| HX-RFBT02A
(RGB/RGBW/RGBCW 3 in 1) | MINI001-RGB, MINI001-RGBW
D002(4 in 1),
DLV003(4 in 1),DLV004
D015(RGB), D016(RGBW), DLV005(5 in 1)
DLC006(4 in 1) | HX-RFBK-RGB-2.4G(5 in 1)
HX-SWC-2.4G (DIM/CCT/RGB/RGBW)
HX-HWP86-2.4G(DIM/CCT/RGB/RGBW/RGBCW) | WP86-AP (RF signal repeater)

| HX-RFBT02B
(DIM/CCT 2 in 1) | MINI001-DIM, MINI001-CCT,
D002(4 in 1),
DLV003(4 in 1)
DLV005(5 in 1)
DLC006(4 in 1) | HX-RFBK-RGB-2.4G(5 in 1)
HX-SWC-2.4G (DIM/CCT/RGB/RGBW)
HX-HWP86-2.4G(DIM/CCT/RGB/RGBW/RGBCW) | WP86-AP (RF signal repeater)

Product information for placing order

| Product name | Item number

| RF 2.4G Remote Control | HX-RFBT02A, for RGB/RGBW/RGBCW(3 in 1)
HX-RFBT02B, for DIM/CCT(2 in 1)

Source reference: https://www.hoionlighting.com/products/LEDdiaoguangqi/LED_Remote_Controller/2021/1231/417.html