

# Product specification

**Product description:** RF2.4G Knob Remote Controller

**Model:** HX-RFBT15

**Version:** V1.2

**Release date:** 05 / 05 / 2023

<b>Product Name</b>	RF2.4G Knob Remote Controller		
<b>Series</b>	RFBT		
Version Record			
Version	Change description	Release date	Compatibility with the previous version
V1.1	Original version	2019/10/28	
V1.2	Updated version	2023/5/5	

**Customer confirms, Company name:**

Test	Confirm	Audit

**Complete model no according customer's demand:**

<b>NO 1</b>		<b>NO 2</b>	
<b>NO 3</b>		<b>NO 4</b>	

**1. Product photo**



## 2. Features:

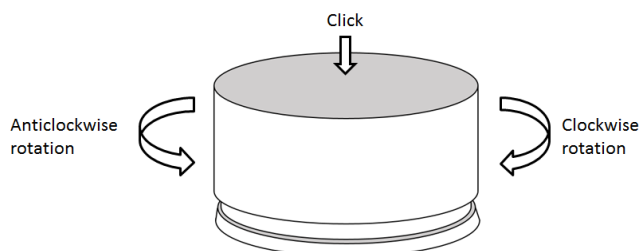
- 1) Working voltage: 3V (AAA\*2);
- 2) DIM/CCT/RGB/RGBW 4 in 1;
- 3) Come with holder, easier access and keeping;
- 4) Easy to access and store with magnetic suction;
- 5) Circular knob design, unique interface and easy operation;
- 6) Functions: ON/OFF, dim function, colors, dynamic modes;
- 7) Adopts RF 2.4GHz wireless control, remote control distance up to 30m and no directional;
- 8) RFBT15 compatible with HD/HC/QD/QC/DLC/DLS/DLK/T2/T3 series products, please contact HOION for more information;
- 9) 3 years warranty.

## 3. Technical Parameters

<b>Working temperature</b>	-20-60°C	<b>Working voltage</b>	3V(AAA*2PCS)
<b>Sleep current</b>	<25uA	<b>Emission current</b>	<17mA
<b>Sleep power consumption</b>	<75uW	<b>Emission power consumption</b>	<51mW

<b>Net weight</b>	80g	<b>Dimension</b>	Φ60*35mm
<b>RF distance</b>	≤30m	<b>RF frequency</b>	2.4GHz
<b>Accessories</b>	holder 1pc, 3M foam sponge glue 1pc.		

#### 4. Control Function



##### Function:

##### DIM (work with single color receiver)

Short-click: ON/OFF

Rotating: Adjusting brightness

Double-short-click: 100% brightness (Twice pressing consecutively, with an interval of 0.5s between the two pressing)

##### CCT(work with CW+WW receiver)

Short-click: ON/OFF

Rotating: Adjusting brightness

Pressing+Rotating: Adjusting CCT (Clockwise balance to cold white; Counterclockwise balance to warm white;)

Double-short-click: Cool white, warm white, Pure white  
(Twice pressing consecutively with an interval of 0.5s)

##### RGB(work with RGB receiver)

Short-click: ON/OFF

Rotating: Adjusting brightness

Pressing+Rotating: Adjusting color

Double-short-click: Switch static color in order of  
Red/Green/Blue/Yellow/Orange/Purple/Green/White  
(Twice pressing consecutively with an interval of 0.5s)

##### RGBW(work with RGBW receiver)

Short-click: ON/OFF

2s-long-pressing: Switching between RGB and white color.

Double-short-click: Switch static color in order of Red/Green/Blue/Yellow/Orange/Purple/Green/White (Twice pressing consecutively with an interval of 0.5s)

**When in RGB mode:**

Rotating: Adjusting brightness  
Pressing+Rotating: Adjusting color

**When in White mode:**

Rotating/ Pressing+Rotating: Adjusting brightness

**RGBCW(work with RGBCW receiver)**

Short-click: ON/OFF

2s-long-pressing: Switching between RGB and CCT.

Double-short-click: Switch static color in order of Red/Green/Blue/Yellow/Orange/Purple/Green/White (Twice pressing consecutively with an interval of 0.5s)

**When in RGB mode:**

Rotating: Adjusting brightness  
Pressing+Rotating: Adjusting color

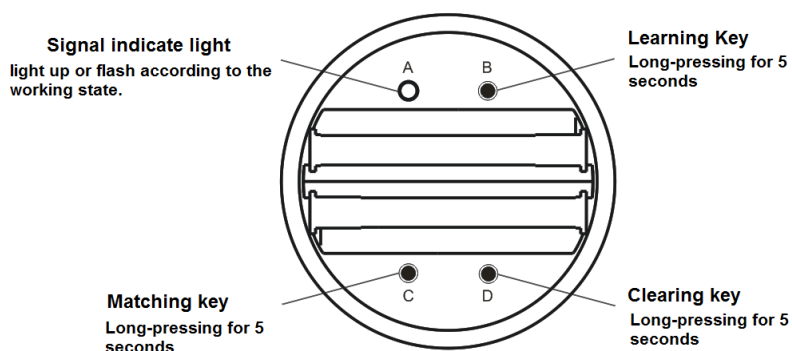
**When in CCT mode:**

Rotating: Adjusting brightness  
Pressing+Rotating: Adjusting CCT

Tips. More details of the functions are showed in the receivers instruction.

**5. 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	1.It is necessary to clear the code first, if the receiver was coded before.

	receiver and power on it.	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.
<b>2</b>	Press and hold "C" on the remote control for 5 seconds	The indicator of 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
<b>3</b>	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
<b>1</b>	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.
<b>2</b>	Press and hold "D" 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 pairing coding is finished successfully. 2. If the original remote control is lost, the new remote control can be used for clearing operations.
<b>3</b>	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 "C" key for 5 seconds. The indicator of the remote control will flash quickly, means it enters the pairing code transmission status.
- 2) **New** remote control: Press and hold "B" key for 5 seconds, indicator will turn from 100% to off means it enters learning code status.
- 3) Indicator of the new remote control flash three 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 "B" key for 5 seconds until indicator of remote control turns off.
- 3) Turn on the power supply of the controllers. Indicator of the remote control flashes three 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 "B" key for 20 seconds until indicator of remote control process the state as 100% -off-100%.

2) Press “D” button to submit and finish the operation. Indicator of the remote control will flash three times after successful operation.

## 6. Remote control accessories installation instructions

Accessories include holder 1pc, 3M foam sponge glue 1pc,AAA batteries 2pcs.

Installation instruction:

- 1) Using 3M foam sponge glue make free drilling installation of the holder onto the suitable wall or furniture surface.
- 2) Placing Knob on the holder to operate the controlling, or take the knob and use it on any tabletop as convenience.

## 7. Compatible family

Receiver Sr.	Receiver type	Application	Function	Marks
HD	Constant current	Single color	ON/OFF Dim	
HC	Constant current	CCT	ON/OFF Dim+CCT	
DLC	Constant current	Single color/CCT	ON/OFF Dim+CCT	
HD-LV/HC-LV	Constant voltage	Single color/CCT	ON/OFF Dim+CCT	
T2/T3	Constant voltage	Single color	ON/OFF Dim	
MINI005	Constant voltage	Single color/CCT/RGB/RGBW	ON/OFF Dim Static colors(CCT/RGB/RGBW) Dynamic modes	
DLS001	2.4G to 0-10V module	Single color	ON/OFF Dim	Loaded by 0-10V dimmable drive
DLK001	RF switch module	Single color	ON/OFF	Loaded by undimmable drive
WP86-AP	RF wireless signal repeater	Full series of 2.4G products from Hoion.	Expand the remote control and wireless-sync distance.	Compatible with all receivers 2.4G products from Hoion.

## 8. Packing



Product information for placing order

Product name	Item number
<b>RF 2.4G knob remote control</b>	HX-RFBT15

