# RGB CCT DIM 3 in 1 Zigbee Remote Controller

70100029

zigbee certified product   CE   FC   RoHS COMPLIANT

**Important:** *Read All Instructions Prior to Installation*

## Function introduction

ON/OFF button, click to turn on/off the chosen group

CCT button, click to get 2700 Kelvin directly, press and hold to increase cool white, release and press and hold again to increase warm white.

Brightness up button, press and hold down to increase light intensity

RGB color button, press and hold down to get the color you would like

Brightness down button, press and hold down to decrease light intensity

Scene button, press and hold down to save a scene, click to recall the saved

1 RGB color changing mode, click to play/pause the mode, press and hold down to speed up/down the mode

Group buttons, click to choose a group

*Note: This remote supports 4 groups for binding max. 30 lighting devices.*

Front side

Note:Before the first use, please remove the protective film on the battery.

Back side

## Product Data

| Protocol | ZigBee 3.0 |
|---|---|
| Operation Voltage | 3VDC (CR2025) |
| Transmission Frequency | 2.4GHz |
| Transmission Range (free field) | 30m |
| Protection Type | IP20 |
| Dimming Range | 0.1%-100% |
| Dimension | 136.3x38.9x10.7mm |
| Protection Grade | IP20 |
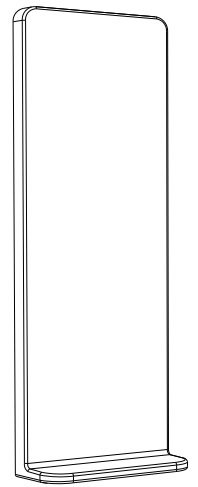
Magnetic Bracket

• ZigBee RGB+CCT+DIM remote based on ZigBee 3.0

• Enables to control both RGB and CCT lighting devices

• Battery powered remote with low power consumption

• Enables to pair ZigBee lighting devices via touchlink commissioning without coordinator

• Supports find and bind mode to pair with ZigBee lighting devices

• Supports 4 groups for binding max. 30 lighting devices

• 2.4 GHz global operation

• Transmission range up to 30m

• Compatible with universal ZigBee Gateway products

• Enables to bind and control universal DIM, CCT, RGB, RGBW and RGB+CCT zigbee lighting devices

## Safety & Warnings

• This device contains lithium battery that shall be stored and disposed properly.
• DO NOT expose the device to moisture.

## Quick Start (Simplified Operations Compared to Standard Operations in "Operation" part)

**Network pairing mode:** Short press both keys together 3 times quickly to set the remote into network paring mode directly if it has not been added to a network.

**Touchlink + Add Group:** Press and hold down both ⏻ key and any group number key together for 3 seconds to start touchlink and link light device to corresponding group.

**Factory reset:** Short press both keys together 3 times quickly to factory reset the remote directly if it has already been added to a network.
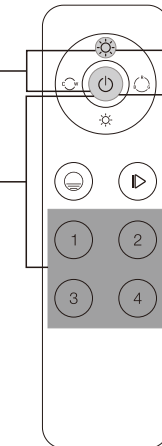
**ZigBee Clusters Supported by This Remote Are As Follows:**

**Input clusters:**

• Basic    • Power Configuration    • Identify    • Diagnostics

**Output clusters:**

• Identify    • Group    • Scene    • On/off    • Level control    • Ota    • Color control

## Operation

**1.This ZigBee RGB+CCT remote is a wireless transmitter that communicates with a variety of ZigBee compatible systems. This transmitter sends wireless radio signals that are used to remotely control a compatible system.**

**2.This ZigBee remote supports 4 groups for binding max. 30 lighting devices and enables to control RGB and CCT ZigBee lighting devices.**

## 3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

**Step 1:** Remove the remote from previous zigbee network if it has already been added to it, otherwise pairing will fail. Please refer to the part "Factory Reset Manually".

**Step 3:** Press and hold down until LED indicator turns on.
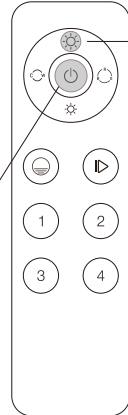
**Step 2:** From your zigbee controller or hub interface, choose to add device or accessory and enter Pairing mode as instructed by the controller.

**Step 4:** Immediately short press to search nearby network, indicator flashes every 1 second, 20 seconds timeout if there is no network. Indicator will then blink 5 times quickly for successful pairing.

**Note:  1) After pairing successfully, the remote information will appear on the controller or hub interface.**
        **2) No remote information will appear on the hub interface if pairing to some Zigbee hubs.**

## 4. TouchLink to a Zigbee Lighting Device

**Step 1**: Set the zigbee lighting device to start TouchLink commissioning, please refer to its manual to learn how.

**Step 3**: Short press any button to choose a group to touchlink.
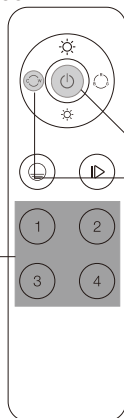
**Step 2**: Bring the remote within 10cm of the lighting device.
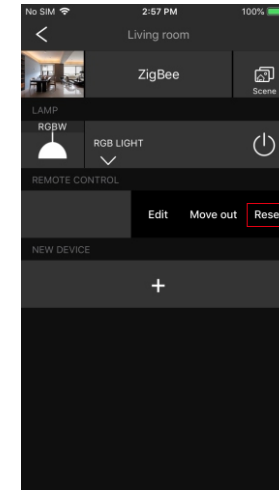
< 10cm

**ZigBee Lighting Device**

**Step 4**: Press and hold down until LED indicator turns on.

**Step 5**:Immediately short press to start TouchLink commissioning of the remote. LED indicator flashes fast for 3S, then flash 6 times slowly to indicate successful pairing to the device and the light connected to the device will blink twice.

**Note: 1) Directly TouchLink (both not added to a ZigBee network), please first factory reset both the remote and device, each remote can link with max. 30 devices, please make sure the first linked device is always powered on when touchlink the remote with 2nd device and more devices.**
**2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.**
**3) To control by both remote and hub, add both remote and device to network first then TouchLink, after TouchLink, the device can be controlled by the linked remotes and Zigbee hub together.**
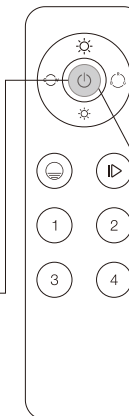
## 5. Removed from a Zigbee Network through Coordinator or Hub Interface

From your ZigBee controller or hub interface, choose to delete or reset the remote as instructed, indicator flashes 3 times quickly to indicate successful removing.

## 6. Factory Reset Manually

**Note:  All configuration parameters will be reset after the remote is reset or removed from the network.**

**Step 2:** Immediately short press 5 times continuously, indicator flashes 3 times quickly to indicate successful reset.

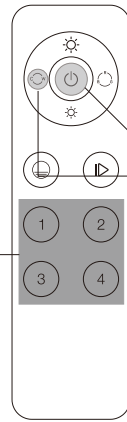**Step 1:**  Press and hold down until LED indicator turns on.

## 7. Remove a Touchlink Paired ZigBee Lighting Device

**Step 1**: Set the Touchlink paired zigbee device to start TouchLink commissioning, please refer to its manual to learn how.

**Step 3**: Short press the group button that the device was linked to.

**Step 2**: Bring the remote within 10cm of the lighting device.
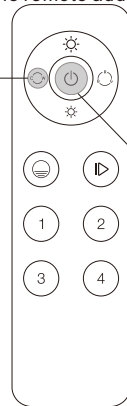
< 10cm

**ZigBee Lighting Device**

**Step 4**: Press and hold down until LED indicator turns on.

**Step 5**: Immediately short press twice to start TouchLink removing of the remote. LED indicator flashes fast for 3S, then flash 6 times slowly to indicate successful removing.

## 8. Factory Reset a Lighting Device (Touch Reset)
**Note**: the device shall be added to a network, the remote added to the same one or not added to any network.

**Step 1**: Set the zigbee device to start TouchLink commissioning, refer to its manual.

**Step 4**:Immediately short press 5 times to start Touch Reset of the remote. LED indicator flashes fast for 3S, then flash 3 times slowly to indicate successful reset.

**Step 2**: Bring the remote within 10cm of the lighting device.

< 10cm

**ZigBee Lighting Device**

**Step 3**: Press and hold down until LED indicator turns on.

## 9. Find and Bind a Zigbee Lighting Device
**Note: Make sure the device and remote already added to the same zigbee network.**

**Step 1**: Start find and bind mode on the Zigbee lighting device (initiator node) and enable it to find and bind target, refer to its manual.
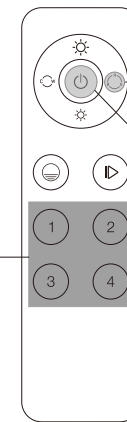
**Step 2**: Short press a group button that you would like to bind the device to.

**Note: Each remote can bind max. 30 lighting devices.**
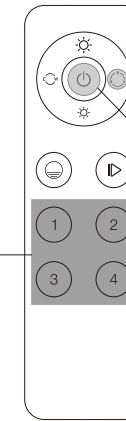
**ZigBee Lighting Device**

**Step 3**: Press and hold down until LED indicator turns on.

**Step 4**:Short press to enable the remote (target node) to find and bind initiator. LED indicator flashes 4 times for successful binding or twice if binding fails.

## 10. Find and Unbind a Zigbee Lighting Device

**Step 1**: Start find and bind mode on the ZigBee lighting device (initiator node) and enable it to find and unbind target, refer to its manual.
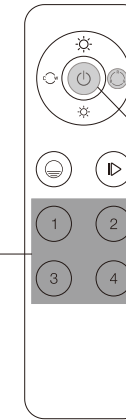
**Step 2**: Short press the group button that the device already bound to.

**ZigBee Lighting Device**

**Step 3**: Press and hold down until LED indicator turns on.

**Step 4**:Short press twice to enable the remote (target node) to find and unbind initiator. LED indicator flashes 4 times for successful unbinding or twice if unbinding fails.

## 11. Clear All Find and Bind Mode Paired Lighting Devices of a Group

**Step 1**: Short press to choose the group that you would like to unbind all devices.

**Step 2**: Press and hold down until LED indicator turns on.

**Step 3**:Short press 5 times continuously to clear all bound lighting devices with this group. LED indicator flashes 4 times for successful unbinding.

## 12. Setup a Network & Add Devices to the Network (No Coordinator or Hub Required)

**Step 1**: Factory reset the remote and the lighting device, refer to their manuals.

**Step 2**: TouchLink the remote and device to setup a network, refer to their manuals.
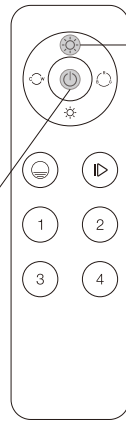
**Step 3**: Press and hold down until LED indicator turns on.

< 10cm

**ZigBee Lighting Device**

**Step 4:** Short press to enable the network to discover and add devices, LED indicator will flash twice. 180 seconds timeout, repeat the operation.

**Step 5**:Set another remote into network pairing mode and pair it to the network, refer to its manual.

**Step 6**: Add more remotes to the network as you would like.

**Step 7**: Factory reset the lighting devices that you would like then add them to the network, refer to their manuals.

**Step 8**: Touchlink to pair the added remotes and lighting devices, refer to their manuals. Each remote can link with max. 30 lighting devices. Each lighting device can be linked by max. 30 remotes.

## 13. OTA

The remote supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

## 14. How to Check Whether the Remote Belongs to a Network or not

Short press any other buttons except group buttons, indicator blinking means the remote has already been added to a network, no blinking of indicator means the remote does not belong to any network..

## 15. Battery Power Monitor Function

**The remote will report battery power value to the coordinator under following situations:**

• When powered on.

• When short pressing both ⋅☼⋅ and ⋅☼⋅ buttons simultaneously.

• When operating the switch to send data packets (over 4 hours since last operation).

• When added to the network by a coordinator.