
#### Abstract

REMOTE: EP-2809-27-RC RF REMOTE 2Z0NIS 

RECIIVER: EP-100S-EA-2Z-CVC

\section*{Product Introduction:}

RF Touch RGB remote controller is a wireless color controlling system that consists of a sender and a receiver or several receivers, as shown in Figure 1, 2:


By selecting switch status, you can set the system as RGB 3-channel output, or RGBW 4-channel output. Using RF Touch RGB remote controller, you can get whatever color you want; you can choose any color from RGB(W) to adjust so as to mix more than 100 million kinds of colors. With built-in 1 kinds of color changing mode, you can easily switch color changing modes and adjust speed and brightness. "Function Pause" enables RGB LED to stay at your favorite color under the situation of color changing modes, which operation is simple but functional.

There are three working frequencies for option: $434 \mathrm{MHZ}, 868 \mathrm{MHZ}$ or 915 MHZ , they are suitable for Europe, Americas and all global market demands .All products completely comply with European CE regulations and American FCC regulations.

## Performance Parameter

SENDER: (MODEL: EP-2809-2Z-RC)

Working temepature:
Working current:
Dormancy current:
Working frequency:
Transmit power:
$4.5 \mathrm{~V}(3 \times 1.5 \mathrm{~V} 7$ AAA battery)
$<22 \mathrm{~mA}$
$<20 \mu \mathrm{~A}$
434MHZ/868MHZ/915MHZ (optional)
$\geq 5 \mathrm{dBm}$

RECEIVER: (MODEL: EP-1005-EA-2Z-CVC)

Input current:
Output Current:
Working Frequency:
$3 \mathrm{CH} \times 5 \mathrm{~A}$ max
$3 \mathrm{CH} \times(60-180 \mathrm{~W})$ max - Constant Voltage
434MHZ/868MHZ/915MHZ (optional)



## Components Description

SENDER(MODEL:EP-2806-10Z-RC)


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(W) "W" button and indicator
- Working status indicator, the sender is in dormant status when the indicator is off. The sender is under working when the indicator is flashing rapidly. If the indicator continues flashing at the frequency of 1 second, it indicates that the sender batteries low and needs to replace new batteries.
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s- Slow down the speed when color is changing
s+ Speed up when color is changing
M) Multifunction button, used for selecting, Synchronous or asynchronous mode

B- Brightness down
B+ Brightness up
(4) Multifunction button, used for turn ON/OFF and white output
(1) (2)
(3) 4

Figure 1-10 is for selecting receiver's ID and ID itself to turn ON/OFF

## RECEIVER

RGB THINGLOW LED


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## Basic Usage

1 Install battery

Initial using easy $\mathrm{RGB}(\mathrm{W})$ remote controller, open the battery cover on the back of the sender, load 3pcs 7 AAA (1.5V) batteries. Please pay attention to the battery's negative and positive, otherwise it will fail to work.

## Receiver learning ID

Initial using easy $\mathrm{RGB}(\mathrm{W})$ remote controller must learn the ID of the receiver, the purpose of learning ID code is to make a certain receiver which can correspond the sender. The method of Receiver learning ID is as follows: press the ID learning button on the sender, the ID learning indicator $\bullet$ is on, then press one of the number button $\mathrm{z1}$ 2 on the sender, press the number that you want this receiver to be, E.g. If you want this receiver to be No.

# (1) (2) (3) (4) 

1, please press button (z1 first, then touch the wheel - or you can press any functional button on the sender, such as (B.) B+ (5) S+ M) etc. to transmit signal to the Sender, after Receiver receives the signal from the sender, the indicator will flash a few times and then turns off, then receiver ID is activated. If the ID activation is failed at the first time, please repeat the previous procedures.
Attention: The receiver ID learned by touching color wheel is different from the reciever that learned by pressing function button (B) B+ (S) (S). The receiver ID learned by touching color wheel © that we define it as SLAVE receiver, the receiver ID learned by pressing function button (B) B+ (S) S+ M that we define it as MASTER receiver. The purpose of learning these two kinds of receivers is to ensure the receivers and color changing synchronously to avoid the color changing out of order. This point will be noted later.
2. Delete ID and ID re-learning If you need to delete the ID learned in the receiver, press ID learning button for more than 5 seconds, when learning indicator is off, then the learned ID is deleted. If you need the receiver learn a new ID, repeat the operation of 2 (Receiver learning ID).

## 3. Choose color by touching color wheel

After the receiver learned the ID, you can change each receiver's color by touching color wheel. If you want to change the color of receiver NO.1. Press button (z1) ,then make rotating touch on color wheel by your figures, at this time, the color of receiver No. 1 will be changed constantly, when your favorite color appears, stop rotating and leave the color wheel . If you need change color of several receivers at the same, just choose a number for these several receivers first, then touch color disc. For example, change color for receivers NO.1, 2, 3, 4 at the same time, you need press number 1 to 4 button
(1) (2) (3) (4) first, then touch the color wheel

## 4. Select or adjust color by R, G, B, W button B (6) B் ©

In addition to change the color by touching color wheel , but you can also select the single color through R, G, B, W buttons $\dot{\text { B }} \dot{\text { © }}$ B ( ${ }^{(1)}$ or adjust the color by color wheel to get your wanted color. For example, you choose a color by touching color wheel and still want add a bit more brightness to red color, just press $R$ button $R$ for over 2 seconds, then the indicator of $R$ will be on and red is selected, make clockwise rotation on the color wheel by finger, then the brightness of red will be increased. If you want the red color to be darker, just make counter clockwise rotation on the color wheel . If need to adjust the color brighter or dim several colors at same time, also just choose the colors, such as R, G, then make clockwise rotation. or counterclockwise rotation ,it can simultaneously adjust the brightness for both colors. If you want to cancel the selected color, just press selected button for 2 seconds, the corresponding color will be off, this color is abandoned.
By pressing of $R, G, B, W$ buttor $\dot{B} \dot{\text { G }} \dot{\text { B }} \dot{(W)}$, you can turn on/off the corresponding single color. For example, if you want LED lightings to get red, press R B for over 1 second, then the red color will be turn on. If you want to turn off red again, press R R for 1 second, the red will be off again. The same operation is for other colors.
Note that: If you select a color output, such as red, then you select another color output, such as green. So red and green are output at the same time. If you only need to separate out the second output "green", just turn off the front color "red".
In short, using R, G, B, W buttons $\dot{\operatorname{B}} \dot{(6)} \dot{(1)}$ and operating color wheel , you can mix more than 100 million colors or any color you want.
Attention: The receiver is under single or multi-color adjustment condition when any single or multi-color is selected. Under this condition, you can only make clockwise rotation or counterclockwise rotation operation to adjust the color. A direct touch on color wheel - will not work. Only after exiting from the single or multi- color condition, a direct touch on color wheel will work.

## 5 Choose color changing mode

Selecting the mode button (M), receiver change colors according to different modes, a total of 4 built-in

(1) (2) (3) (4) color changing modes. If you want one or several receivers under color changing mode, press number button and choose receiver number, then press button $M$ again. For first press of button $M$, receiver will change according to mode
1, one more time press of button $M$, the receiver will be paused, it will stay at one color under mode 1 condition. Press button again, the color will change according to mode 2, press button (M) one more time, it changing as follows:
MODE1-STOP---MODE2---STOP---MODE3---STOP---MODE4---STOP
The receiver will be at one of static colors by touching the color wheel in color changing modes. Then press M button , receiver will be changed as Mode 1 again.
6. Brightness adjustment

Under the static color status or color changing status, you can adjust the brightness by press B B+ and pressing button B+ to increase the brightness. The brightness is divided into 8 levels, the minimum is $10 \%$, and the maximum is $100 \%$.

## 8. Changing speed adjustment

Under color changing mode, you can slow down the changing speed by pressing button s- , or speed up changing speed by pressing button $(s+16$ speed levels in total are available. The maximum changing cycle is 4 seconds; the minimum changing cycle is 256 seconds.

## Symptoms and solutions

| Symptom | Analysis | Solution |
| :---: | :---: | :---: |
| The Receiver cannot be learned to the sender | 1. Exceed learning time, every learning time is 5 Seconds only. <br> 2. Sender is under dormancy status. | 1. Press receiver learning button, LED indicator is ON, press the number button before led indicator is OFF, then press function button or touch color wheel. <br> 2. Press On/Off to make the sender under working status. |
| The sender cannot control the receiver | 1. Receiver isn't learned to the sender. <br> 2. The receiver isn't learned to the sender correctly. <br> 3. Remote distance is out of range. <br> 4. Incorrect receiver. | 1. To learn the receiver by the sender. <br> 2. When receiver is learned to the sender, press number button first, then press function button or touch color wheel. <br> 3. Shorten the remote distance. <br> 4. Choose correct receiver ID. |
| Color changing isn't synchronized | 1. MASTER receiver isn't set. <br> 2. More than two MASTER receivers are set. | 1. Reset a new MASTER receiver. 2. Relearn all the receivers with one MASTR receiver |
| Wrong color | Wrong connection of $R G B(W)$ electric wires. | Reconnect RGB(W) electric wires |
| LED flashing | The power is not enough | Change a higher power supply |

## Precautions

1. Please unload the batteries if the send is not used for a long time.
2. Don't fall the sender from a high place or don't squeeze it.
3. Please replace new batteries if there is a warning indicator of insufficient power, otherwise it would cause damage to the sender.
4 Receiver is non-waterproof, not for outdoor use

[^0]:    $110-240 \mathrm{~V}$

