HX-RFBK-RGB-2.4G

Controller adopts the most advanced PWM (Pulse Width Modulation) digital control technology, it is used for controlling different type led lamps.

Product Features

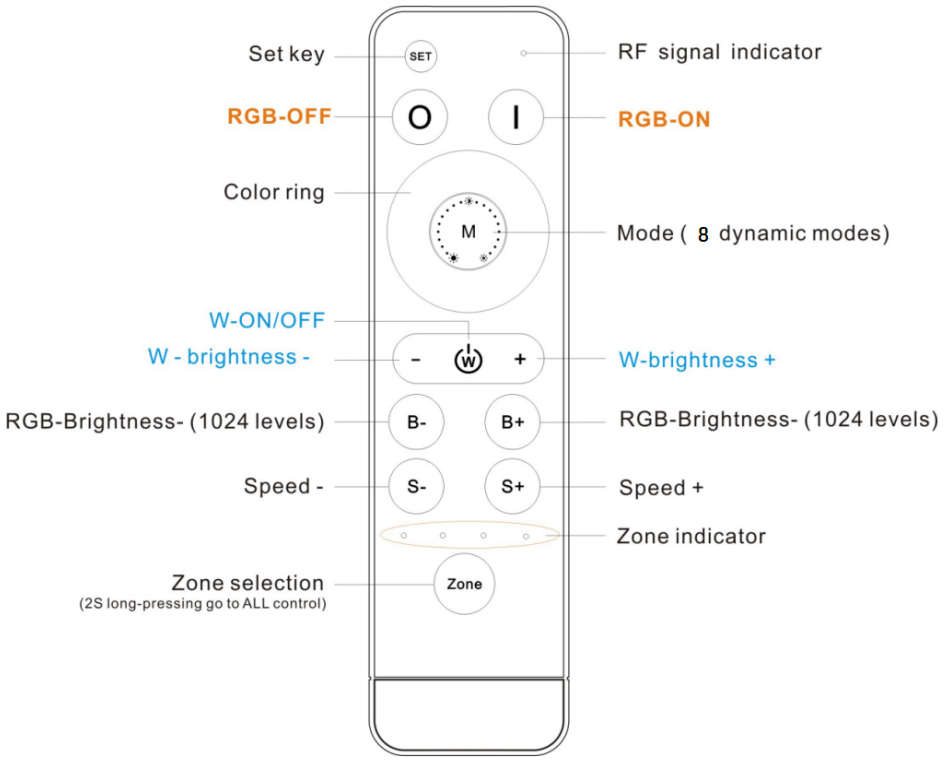
- Powered by AAA*2
- Adopts RF remote control, no need line-of-sight. 4 zones separately control or all-control.
- Wireless-sync-control in both static color and dynamic modes, unlimited by remote control distance.
- Batch-operation is available for RF code matching/clearing between remote control and receivers.
- Perfect control effect, including 1024 static colors and soft dim function.
- The brightness of static color is adjustable, 1024 levels in total; the speed of dynamic changes is adjustable, 100 levels in total.
- Long-press the brightness and speed key can get the fast adjustment, convenient for operation.
- Warranty of this product is three years, exclude the artificial situation of damaged or overload working.

Technical Parameters

Working temperature	-20℃~60℃	Supply voltage	DC3V（AAA*2）
Standby current	<18uA	Working current	<25mA
Standby power	54uW	Working power	75mW
Net weight	95g	RF frequency	2.4GHz
External dimension	L150*W40*H20 mm	RF distance	≤20m

RF remote button functions

1 color ring and 12 buttons in total, the function of buttons are shown as below:



Name	Description
SET	Nonfunctional
I	RGB channels-Turn on
O	RGB channels-Turn off
Color ring	Static color options, 64 colors in total.
M	Dynamic modes, 8 modes in total.
⏻	W channel-Turn ON/OFF
−	W channel- brightness -, 1024 levels, long-press can get fast adjusting.
+	W channel- brightness +, 1024 levels, long-press can get fast adjusting.
B-	Brightness – for RGB static colors by 1024 levels. Long-press can get fast adjusting.
B+	Brightness + for RGB 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.
Zone	Zone selection, 2 seconds long-press get “all-control”.

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	

About "all-control".

This system is available to achieve mixed control.

The all buttons' functions are active in all-control mode, the effect for each zone will according to the type of receiver.

About RF code.

The biggest advantage of this system is that it can not only solve the cabling problem in engineering wirelessly, but also realize a wired-like operation experience. In order to facilitate the early testing and debugging of the project, the factory status of the receiver is normally unpaired and each remote controller has a unique code value. The user should perform the matching work of the remote controller and the receiver during the installation of the project to avoid the mutual influence of the radio frequency remote control technology during the later use.

Please pay attention to the following 3 points before operation:

1) All equipment in the complete system after installation should have a unified and unique code value, so as to achieve the security and stability of the system.

2) The receiver can only store one code value and cannot be overwritten. Before learning the new code value, it is necessary to clear the original code of the receiver; the remote controller can only save one code value but can be overwritten and can also restore the factory settings. In order to facilitate the later maintenance, the three components that may be involved in the system (including receivers, handheld remote controllers, and panel remote controllers) can realize mutual learning of code values.

3) Since the receiver performs code value learning in the power-on state, batch-operation is available **(power-one the all receivers which will be in same zone, and operate the matching/clearing the RF code all of them at the same time)**. And in order to avoid confusion in the area, it is recommended that each area has an independent power switch so that the power of other areas can be easily cut off when the code is being operated.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception,
which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different
from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction