

Dual Color LED Strip Controller/Remote Specification

CR2-GBA CK2-GBA



【Features】

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with RF 2.4G single zone dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Over-heat / Over-load / Short circuit protection, recover automatically.
- Certification: CE, RoHS.
- Warranty: 5 years.



【Technical Parameters】

Name	Specs	Parameter
Controller	Mode NO.	CR2-GBA
	Input voltage	DC12-48V
	Input current	Max 16.5A
	Output voltage	DC12-48V
	Output current	Max16A,8A/CH
	Output power	Max 192W@12V Max 384W@24V Max 576W@36V Max 768W@48V
	Input signal	RF2.4GHz+ Push Dim
	Control distance	30m(Barrier-free space)
	Dimming gray scale	4096 (2^12) levels
	Dimming range	0-100%
	Protection	Reverse Polarity, Over-load, Short circuit.
	Production size	L175*W45*H27mm
	Ta	-30C— +55C
	IP rating	IP20
	Certification	CE , RoHS
	Warranty	5 years

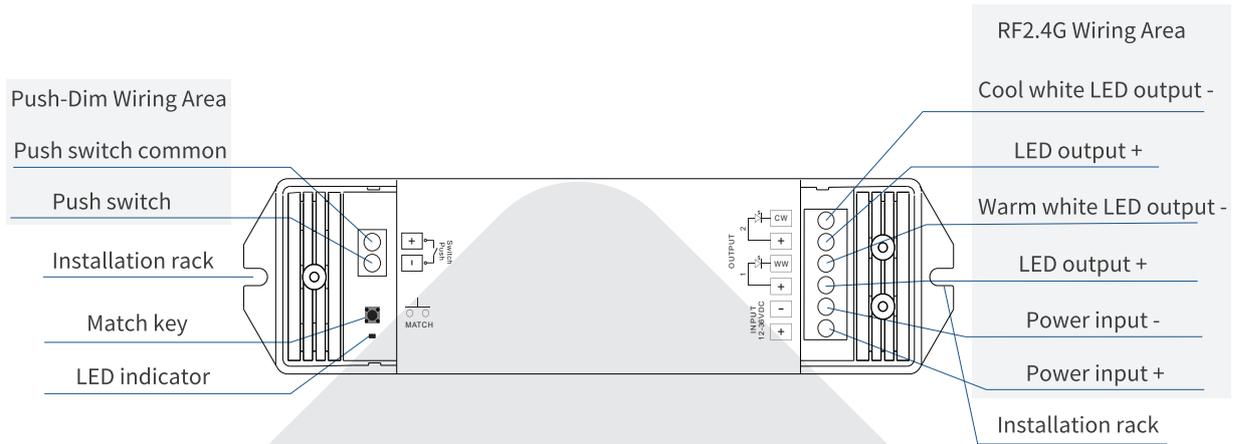
Name	Specs	Parameter
Remote	Mode NO.	CK2-GBA
	Output signal	RF(2.4GHz)
	Working voltage	3VDC(2032 Battery)
	Working current	<5mA
	Standby current	<10uA
	Standby time	1 years
	Remote distance	30m(Barrier-free space)
	Zone	1 zone
	Size	L107*W58.5*H9mm
	IP rating	IP20
	Ta	-30C— +55C
	Tc	Max 60C
	Certification	CE、 RoHS
	Warranty	5 years

Remarks:

1. The above parameters are based on the standard test;
2. The above parameters are typical values.

[Operation identification description]

1. CR2-GBA :



2. CK2-GBA :



On/Off: Turn on/off light.

Color wheel: Touch to change color temperature.

Bright+/-: Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

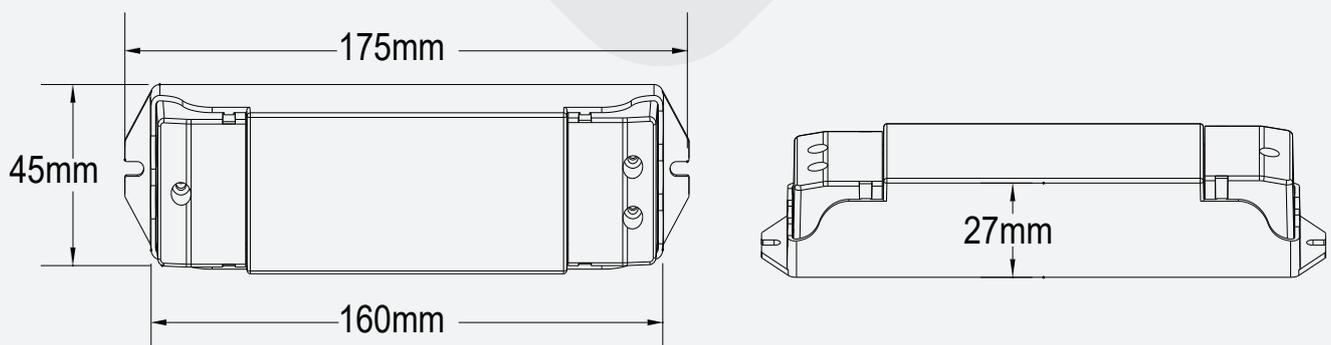
100%,50%: Get 100% or 50% brightness directly.

WW: Get warm white directly. NW: Get cool white directly.

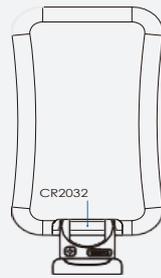
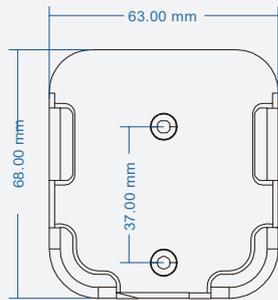
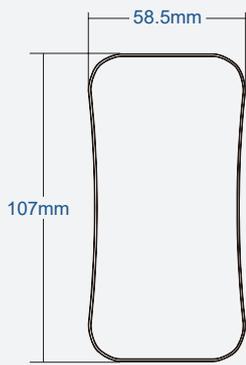
3 Scene: Short press recall the scene, long press 2s save the current color into the scene. the LED indicator will lightup longer when save OK.

[Dimensions]

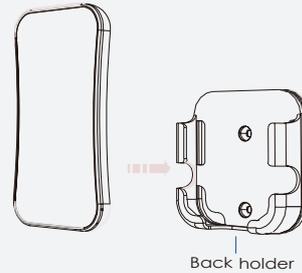
1. CR2-GBA :



2. CK2-GBA :



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



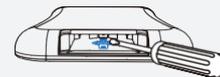
Back holder

To fix the remote, two options are offered for selection:

Option 1:
fix the remote' back holder on the wall with two screws.

Option 2:

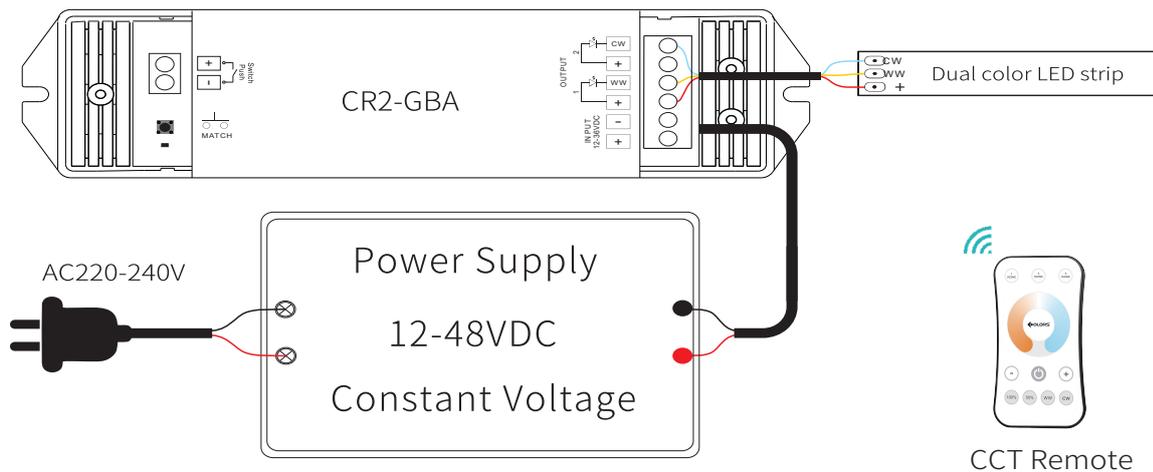
Stick the remote' back holder to the wall with tape.



Note: If the LED indicator is not on when press key, it is due to dead battery or bad contact caused by multiple plugging, please replace the battery, or raise the battery shrapnel with a screwdriver.

【 RF2.4G Wiring Introduction 】

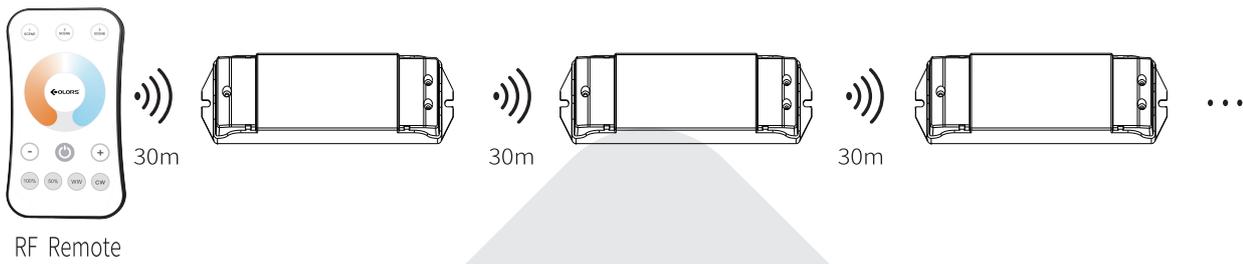
1. Wiring Diagram:



2. RF2.4G: Match Remote Control(2 match ways):

Operation	Use the controller' s Match key	Use Power Restart
Match	Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The LED indicator fast flash a few times means match is successful.	Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.
Delete	Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.	Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

3. Application notes:

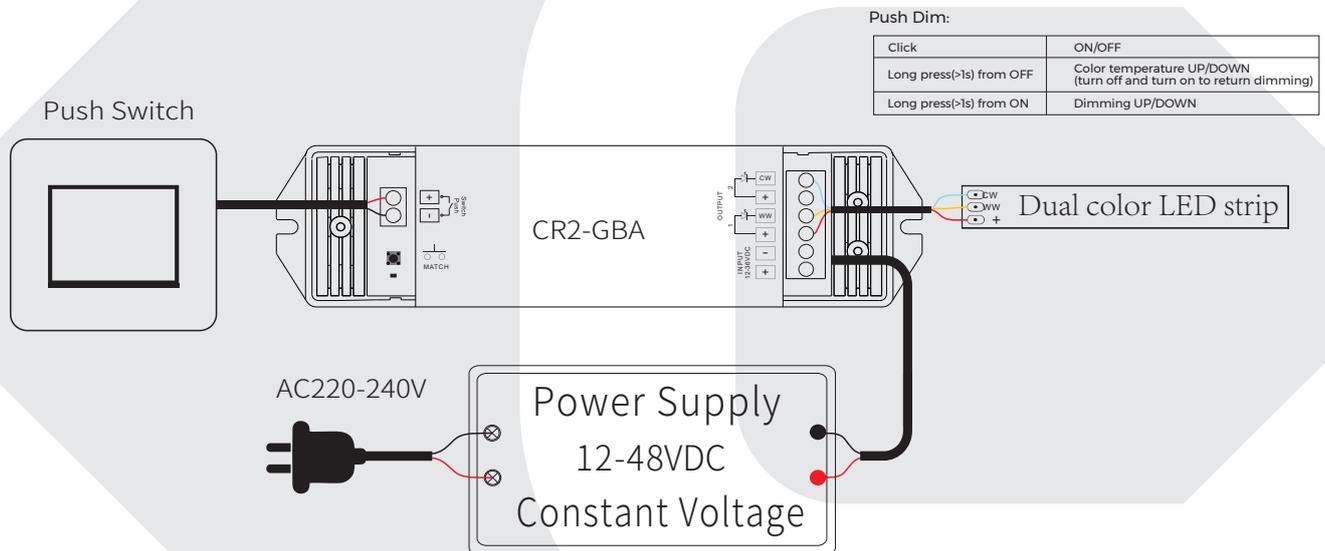


Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be limitless.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

[Push-Dim Wiring Introduction]

1. Wiring Diagram:



2. Push-Dim Function :

Push Dim with Synchronization:

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching(momentary) wall switches.

If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of controllers connected to a push switch does not exceed 25 pieces,

The maximum length of the wires from push to controller should be no more than 20 meters.

Dual color control:

WW=Warm white LED,CW=Cool white LED,Each channel can supply up to 192W@24V and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W, CH2=192W	CH1=96W, CH2=96W	CH1=192W, CH2=0W

【Packing】

1、Packing list:

Model	Controller /Remote	Manual	Back support	Double-sided tape	Self-tapping screws	PE Bag	Individual box
CR2-GBA	1PCS	1PCS	/	1PCS	/	1PCS	1PCS
CK2-GBA	1PCS	1PCS	1PCS	/	2PCS	2PCS	1PCS

2、Packaging Information:

Mode	Individual box size	Quantity/box	Number / Box	net weight (kg)	Net weight per carton (kg)	Gross weight (kg)	Carton size (mm)
CR2-GBA	L178*50*38 mm	1PCS	100PCS	0.107	10.7	15.6	285*245*220
CK2-GBA	L114*65*20 mm	1PCS	100PCS	0.037	3.7	8.2	350*240*230

【Reliability Test Information】

Test items	Testing requirements	Guideline	Test method or condition (streamline)
Performance Testing	No load	Colors	Input 48Vdc, Output 48Vdc.
	Short circuit protection	Colors	The output positive and negative poles are short-circuited, Then input 48V, the controller should be able to self.
	Load capacity	Colors	DC48V input, output full load, controlThe controller should work normally.
	Remote control distance temperature	Colors	The remote 30m should be able to connect normally Pairing, normal function; wireless signal relay connection is normal.
	Push-Dim Fuction	Colors	Push-Dim function should be normal, off and dimming functions.
High temperature aging test	Work stability	Colors	Input voltage: 48VDC, load LED current: 10.01A (full load); Conditions: temperature 55°C, aging time 24H.

【Precautions】

1. Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range. We recommend for indoor applications that receiver placements should be no further apart than 15m.
2. The number of controllers controlled by one remote control should not be too many to avoid mutual interference of remote control signals. It is recommended to replace the controllers with power expanders as much as possible.
3. When installing batteries in the remote control, pay attention to the positive and negative poles of the batteries. Please remove the battery when not in use for a long time; when the remote control distance becomes smaller or the remote control fails frequently, please replace the battery in time.
4. If no response from the receiver, please re-match the remote.
5. Gently handle remote, be ware of falling.
6. For indoor and dry location use only.