RGBW Dimmable Driver

100W Dimmable Driver with RF control

Job Information *Fill out project deitails for this product below*			
Project		**Location**	
Contact		**Date**	
Product Number		**Fixture Type**	

Dimmable LED driver with RF control suitable to control single color, dual color, RGB/RGBW LED lighting fixtures.

KEY FEATURES

5 Channels

Adjust Brightness

Color Cycle Options

APPLICATIONS

- Backlighting
- Large Formats
- Backlit Stone
- Backlit Graphics

OVERVIEW

- Max. output power 100W total
- 4 channels 24VDC constant voltage output
- Class 1 power supply, full isolated plastic case
- High power factor and efficiency
- Compatible with a variety of RF remotes
- Push dim function available while connected with a push switch
- Radio Frequency : 868/869.5/916.5/434mhz

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SPECIFICATIONS

Model#	SRP-1009-24-96CVF
Part Number	Driver - **970035** • Remote Controller - **970036**
Output	
LED Channel	4
DC Voltage	24V DC
Max. Current	Max. 4.16A/CH, CH1+CH2+CH3+CH4=4.16A
Voltage Tolerance	±1%
Rated Power	max. 100W
Input	
Voltage Range	100-240V AC
Frequency Range	50/60Hz
Power Factor(Typ.)	> 0.90 @ 230VAC
THD (Typ.)	≤ 15% (@ full load / 230VAC)
Efficiency(Typ.) @ full load	90% @ 230VAC full load
AC Current(Typ.)	1.2A @ 100VAC, 0.5A @ 230VAC
Inkrush Current (Typ.)	COLD START Max. 50A at 230VAC
Leakage current	< 0.5mA /230VAC
Control	
Dimming Interface	RF Wireless/PUSH LV
Dimming Range	0%-100%
Dimming Method	Pulse Width Modulation
Protection	
Over Current	Yes, recovers automatically after fault condition is removed
Over Temperature	Yes, recovers automatically after fault condition is removed
Environment	
Working TEMP.	-20℃ ~ +45℃
Max. Case Temp.	85℃
Working Humidity	10% ~ 95% RH non-condensing
Storage TEMP. Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	
Safety standards	TUV EN61347-1, EN61347-2-13
Withstand voltage	I/P-O/P: 3.75KVAC
Isolation resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV
Others	
MTBF	193.6K hrs min. @ 230VAC full load and 25℃ ambient temperature
Size	244*64*32mm (L*W*H)
Remote Control	
Part Number	SR-2819S
Part Number	970036
Output	RF Signal
Operation Frequency	869.5/916.5/434MHz
Power Supply	4.5V(3xAAA battery)
Operating Temp.	0-40°C
Relative Humidity	8% to 80%
Size	120*55*17mm (L*W*H)

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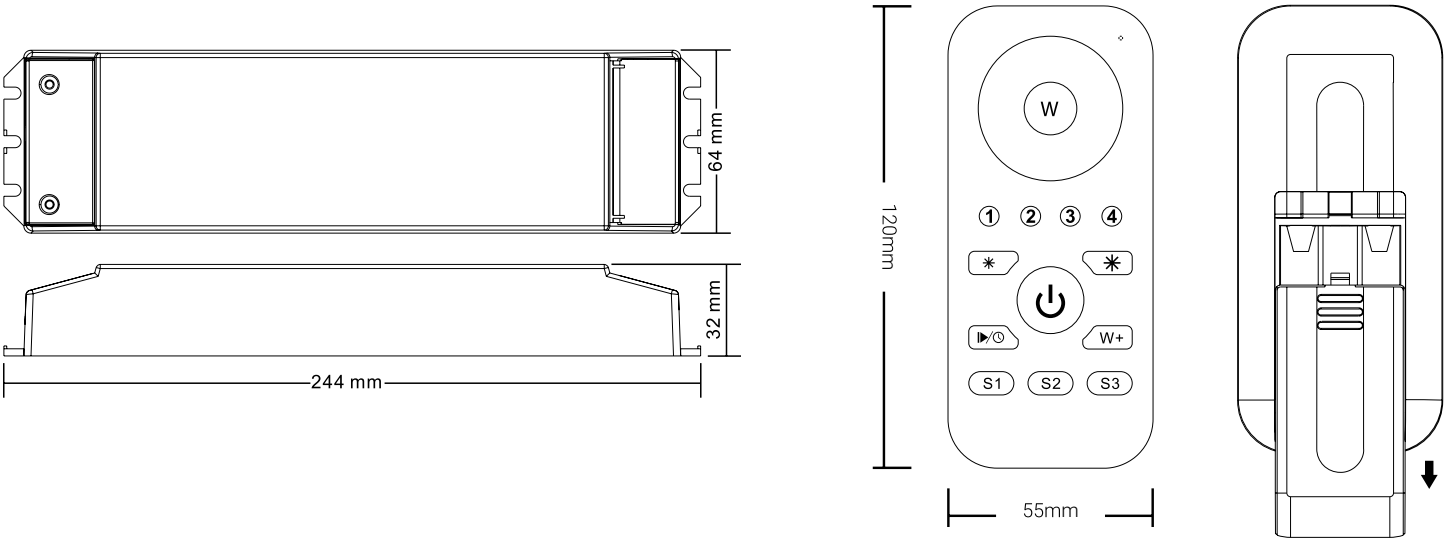
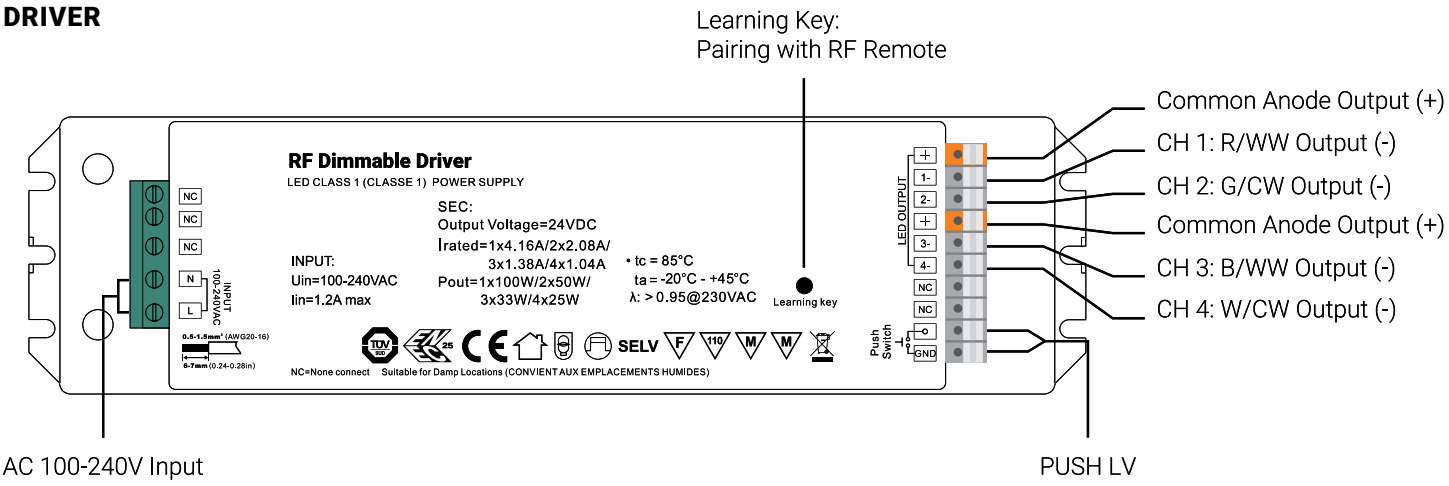
OVERVIEW



FUNCTIONS

DRIVER



1. Dimmable LED driver with RF control
2. Max. output power 100W total
3. 4 channels 24VDC constant voltage output
4. Class 1 power supply, full isolated plastic case
5. High power factor and efficiency
6. To control single color, dual color, RGB/RGBW LED lighting
7. Compatible with a variety of RF remotes
8. Push dim function available while connected with a push switch
9. IP20 rating
10. Suitable for indoor LED lighting applications
11. Radio Frequency : 868/869.5/916.5/434mhz
12. 5 years warranty

SAFETY & WARNINGS

DO NOT install with power applied to device.

DO NOT expose the device to moisture.

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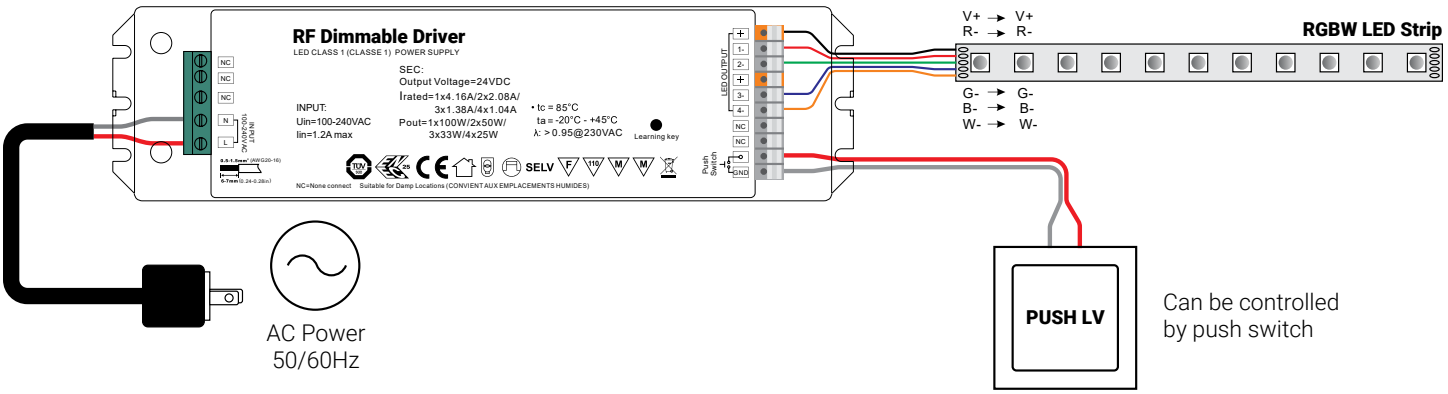
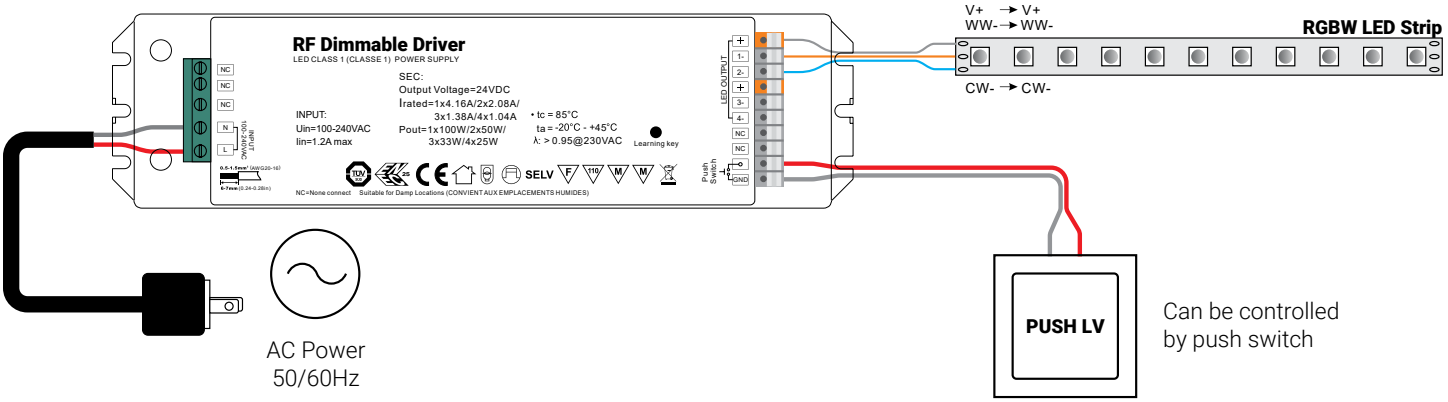
WIRING DIAGRAM

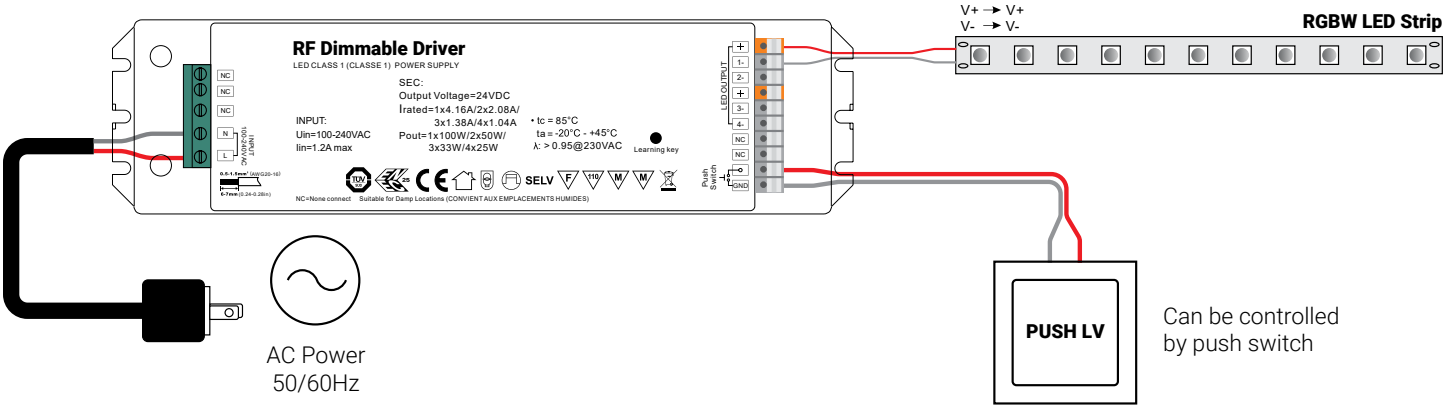
CONNECT WITH RGBW LED LIGHTING



CONNECT WITH CCT LED LIGHTING



CONNECT WITH SINGLE COLOR LED LIGHTING



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ADDITIONAL INFORMATION

PAIR/DELETE THE PAIRING WITH RF REMOTE

1. Do wiring according to connection diagram.
2. Pair RF Receiver with RF remote: please refer to the instruction of the remote that you would like to pair with.
3. Delete the pairing:
   a. Wire up the RF receiver correctly, power on.
   b. Press and hold down the " Learning Key" button on receiver for over 3 seconds until the connected light. flashes, which means well deleted.

PUSH DIM:

While connected with PUSH LV, click the button to switch ON/OFF lights. Press and hold down the button to increase/decrease light intensity.

INSTALLATION

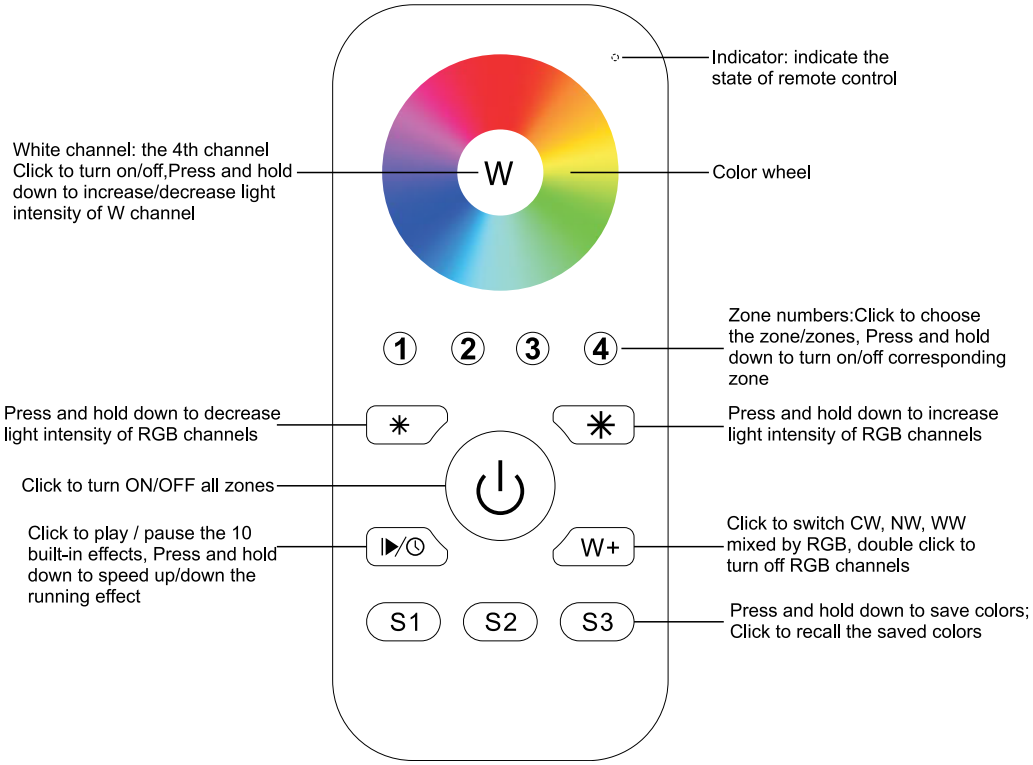
NOTE

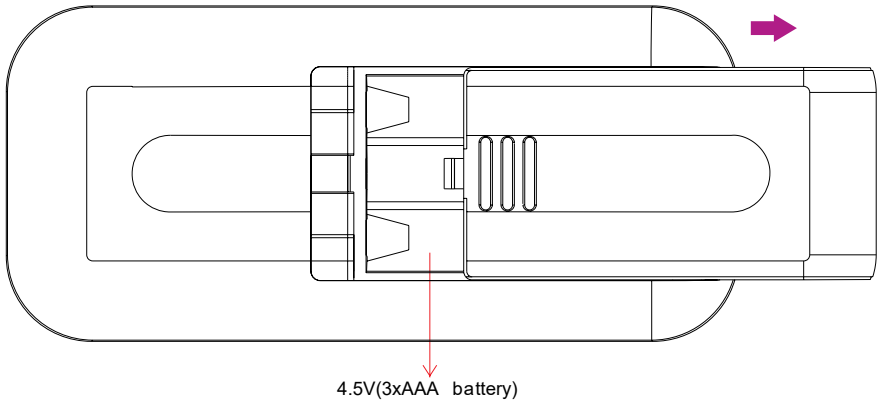
When mounting the driver, please choose any one of the three fixing screw holes to fix with a screw at each end.

Omnify RGBW Dimmable Driver

100W Dimmable Driver with RF control

REMOTE CONTROLLER FUNCTIONS





REMOTE CONTROLLER FEATURES

1. Control 4 zones of RF receivers separately.
2. RGBW color controller
3. High sensitive & high stable, fast & precise color control.
4. Compatible with all universal series RF receivers
5. 1 receiver can be paired by max 8 different remote controls.
6. Waterproof grade: IP20

SAFETY & WARNINGS

1. This device contains AAA batteries that shall be stored and disposed properly.
2. **DO NOT** expose the device to moisture.

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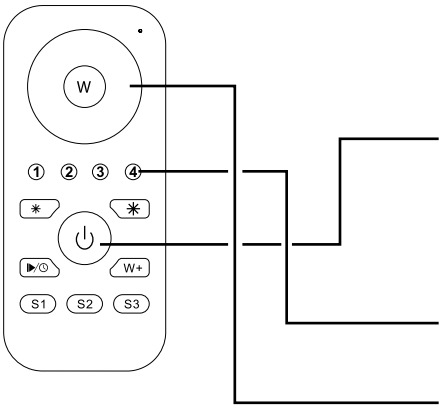
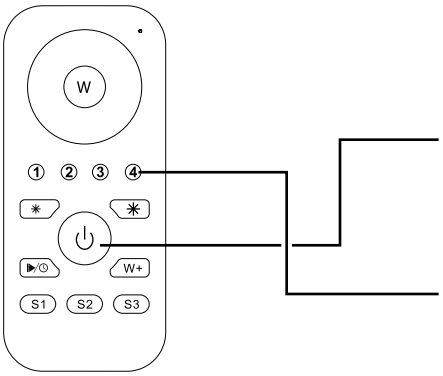
REMOTE CONTROLLER FUNCTIONS

PAIR WITH RF RECEIVER (METHOD 1)



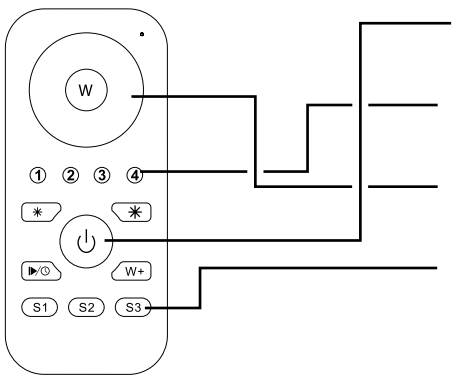
1. Do wiring the RF receiver according to wiring diagram(please refer to the instruction of RF receiver that you would like to pair with;
2. Click ON/OFF button to activate the remote;
3. Click the “Learning Key” button on RGBW Dimmable Driver receiver or re-power on the receiver three times continuously to set it into pairing status;
4. Choose and click a zone number(e.g. zone 4);
5. Touch the color wheel, LED lights connected with the RF receiver flicker once means the receiver is paired with zone 4 successfully.

PAIR WITH RF RECEIVER (METHOD 2)



1. Do wiring the RF receiver according to wiring diagram(please refer to the instruction of RF receiver that you would like to pair with;
2. Click ON/OFF button to activate the remote;
3. Power off and power on the receiver;
4. Choose and click a zone number(e.g. zone 4) twice, then press and hold itcontinuously and quickly within 10 seconds, LED lights connected with the RF receiver flicker once means the receiver is paired with zone 4 successfully.

SAVE COLOR/SCENE/MODE



1. Click ON/OFF button to activate the remote;
2. Choose and click one or multiple paired zone numbers(e.g. zone 4);
3. Touch the color wheel or click the other buttons to select the scene you like;
4. Press and hold any scene buttons of S1-S3(e.g. S3) , LED lights connected with the RF receiver flicker once means the color/ scene was saved successfully.

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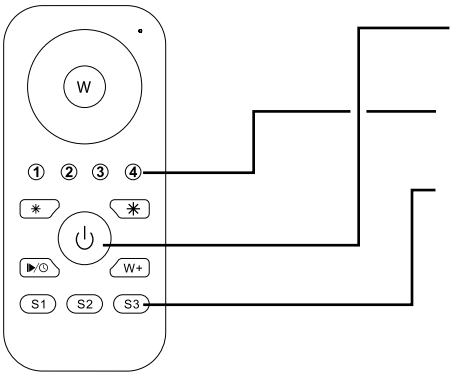
REMOTE CONTROLLER FUNCTIONS

RECALL THE SAVED COLORS/SCENES



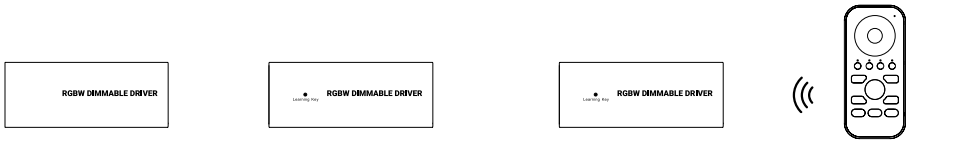
1. Click ON/OFF button to activate the remote;
2. Choose and click one or multiple paired zone numbers(e.g. zone 4);
3. Click any scene buttons of S1-S3(e.g. S3) to recall the saved scene.

IF YOU USE MULTIPLE RECEIVERS, YOU HAVE TWO CHOICES:

Option 1: have all the receivers in the same zone, like zone 1

Zone 1 RF Remote

Option 2: have each receiver in a different zone, like zone 1, 2, 3 or 4



Zone 1 Zone 2 Zone 3 RF Remote

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COLOR PRESETS

BUILT-IN 10 COLOR CHANGING MODES

Mode 1: Any two colors of RGB mix fade-in & fade-out

Mode 2: RGB three colors mix fade-in & fade-out

Mode 3: RGB three colors mix fade-out & fade-in

Mode 4: RGB flash

Mode 5: RGB three colors fade-in & fade-out successively

Mode 6: RGB three colors fade-in successively

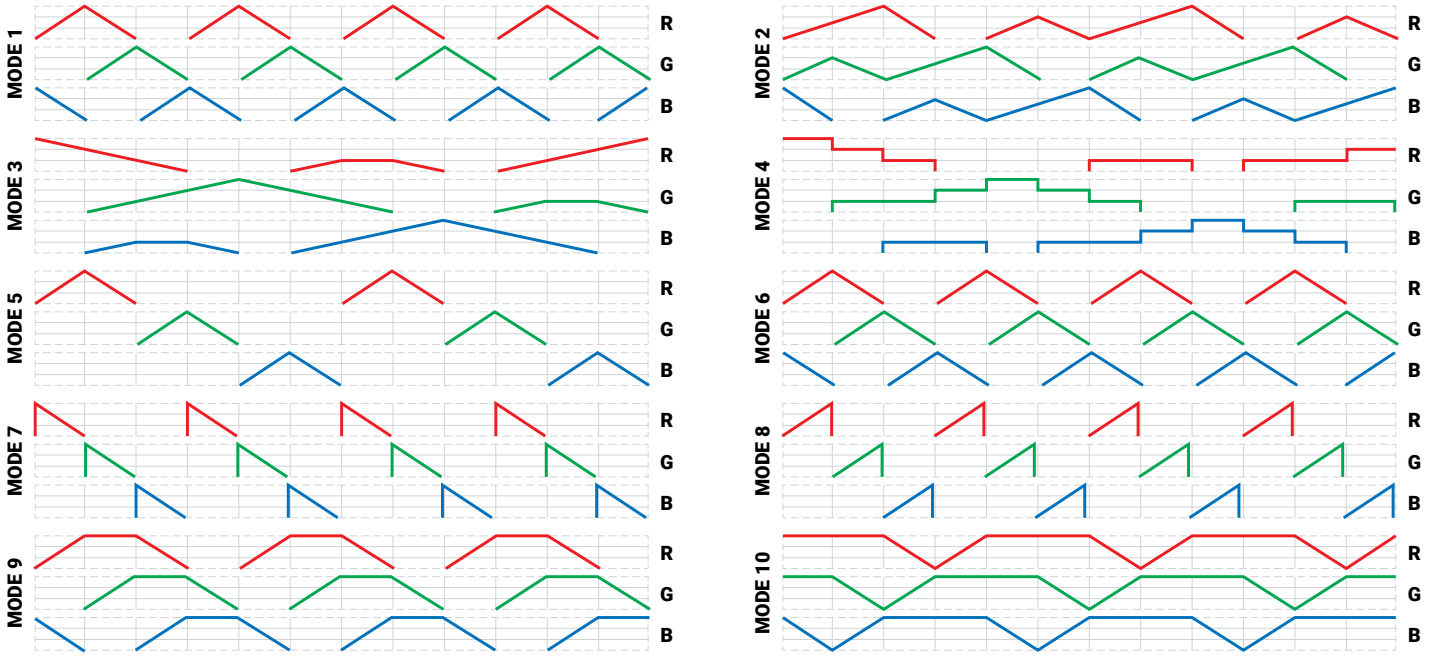
Mode 7: RGB three colors fade-out successively

Mode 8: RGB three colors jump changing successively

Mode 9: R&B two colors mix fade (R in B out), then G fade-in, then R&B mix fade (R out B in), then G fade-out

Mode 10: B fade-out, then G&B mix fade (G out B in), then R&G mix fade (R out G in), then R fade-in

COLOR DIAGRAMS



HOW TO STOP RUNNING MODE OF SINGLE COLOR LED LIGHT CAUSED BY RGBW SENDER INTERFERENCE

1. When pairing single color LED light to a single color remote, it might be interfered and paired by nearby RGBW senders, which might control the single color light into running mode. The running mode can not be stopped by the paired single color remote or by delete pairing;
2. Then we need this remote, and pair the remote to the receiver via above “Pair with RF receiver(Method 2)”, then touch the color wheel to stop the running mode;
3. Then delete pairing and pair the receiver to the single color remote again, it can be controlled by the remote again.