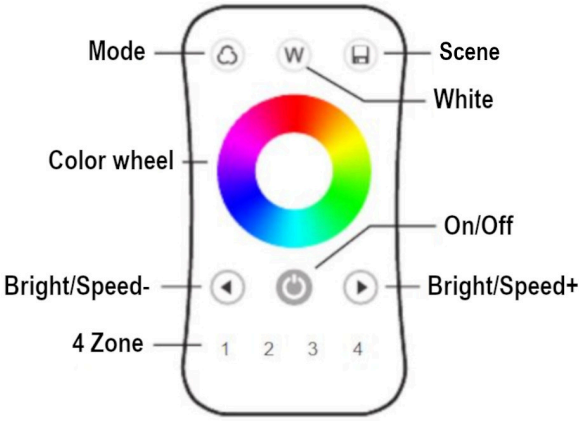
STARTING KIT - 4-ZONE R8 REMOTE (RGBW)

LCR8-REMOTE-RGBW



CE 3 YEARS WARRANTY

TECHNICAL SPECIFICATIONS

FEATURES

- 4 zone RF remote
- Ultra sensitive color adjustment touch wheel.
- Each remote can match with up to 4 receivers.
- CR2032 battery powered.
- Operate with LED indicator light.

INPUT AND OUTPUT

- Output signal : RF (2.4GHz)
- Working voltage : 3VDC (AAA x 2)
- Working current : <5mA
- Standby current : <10μA
- Standby time : 1 year
- Remote ditance : 30m (barrier-free pace)

ENVIRONMENT

- Operation temperature : -30°C ~ +55°C
- IP rating : IP20

SAFETY AND EMC

- EMC standard : ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-17 V3.2.4
- LVD standard : EN 62368-1 : 2020+A11:2020
- Certification : CE, EMC, LVD, RED

OTHERS

- Warranty : 3 years
- Size : L114 x W65 x H20mm

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KEY FUNCTIONS

On/Off: A short press toggles all zone lights on or off.

Zone Selection: Short press to select and turn on a specific zone (1, 2, 3, or 4). Hold for 2 seconds to turn off the selected zone light. Rapidly pressing multiple zone keys allows for simultaneous selection of multiple zones.

Color Wheel: Touch to adjust the RGB color of the currently selected zone.

Brightness +/-: Short press adjusts brightness across 10 levels, while holding for 1-6 seconds enables continuous adjustment through 256 levels for the selected zone.

Speed +/-: This function adjusts the speed in dynamic mode. A short press changes speed across 10 levels, while holding the button for 2 seconds sets it to either the fastest or slowest speed.

W Button: For RGB lighting, a short press toggles the white (RGB mix) on or off, and holding it for 1-6 seconds gradually adjusts the saturation, blending the current RGB color into white. For RGBW lighting, a short press controls the white (W) channel on or off, and a long press continuously adjusts the brightness of the white light.

Scene Control: Short press to recall a scene. Hold for 2 seconds to save the current state as a scene. The LED indicator confirms successful saving by lighting up longer. Scenes can be recalled or saved across all 4 zones simultaneously.

RECEIVER PAIRING GUIDE

1. Connect the LED power source to the receiver, choosing between 12V or 24V based on the LED strip's voltage.
2. Attach the LED strip to the receiver.
3. Power on the system. If correctly connected, a "RUN" light on the receiver will illuminate.
4. Locate the "MATCH" button on the receiver. Press it; the "RUN" light will flash, indicating the receiver is ready for pairing.
5. Press one of the four zone button on the remote. If the "RUN" light blinks again, the remote has successfully connected to the receiver, allowing control over the LED strip.
6. Repeat steps 4 and 5 if you want to pair additional receivers with the remaining zones on the remote.

To remove all paired devices, press and hold the "MATCH" key for 5 seconds. When the LED indicator rapidly flashes several times, it signifies that all matched devices have been successfully deleted.

STARTING KIT - 4 CHANNEL LED RECEIVER

LCLP-REC12A-UNI

3 YEARS WARRANTY

TECHNICAL SPECIFICATIONS

FEATURES

- DC power socket input and 4 channel constant voltage output.
- Match with RF 2.4G single or multiple zone single color, dual color, RGB and RGBW remote control.
- One RF receiver accept up to 10 remote control.
- 4096 levels, 0-100% smooth dimming without flashing.
- Built in RGB and RGBW dynamic modes, including jump or gradual changes.
- Auto-transmitting function: receiver automatically transmit signal to another receiver up to 30m distance.
- Synchronize on multiple number of receivers.
- 3 seconds selectable on/off light fade time.

INPUT AND OUTPUT

- Input voltage : 12-24VDC
- Input current : 15.5A
- Output voltage : 4 x (12-24)VDC
- Output current : 4 ch 4A (6A max)
- Output power : 4 x (48-96)W
- Output type : Constant voltage

DIMMING DATA

- Input signal : RF 2.4GHz
- Control distance : 30m (barrier-free space)
- Dimming gray scale : 4096 (2^12) levels
- Dimmimg range : 0-100%
- Dimming curve : Logarithmic
- PWM frequency : 1000Hz (default)

ENVIRONMENT

- Operation temperature : -30°C ~ +55°C
- Case temperature (Max.) : +85°C

SAFETY AND EMC

- EMC standard : ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-17 V3.2.4
- LVD standard : EN 62368-1 : 2020+A11:2020
- Certification : CE, EMC, LVD, RED
- Warranty : 3 years
- Protection : Reverse polarity, Over-heat and short circuit

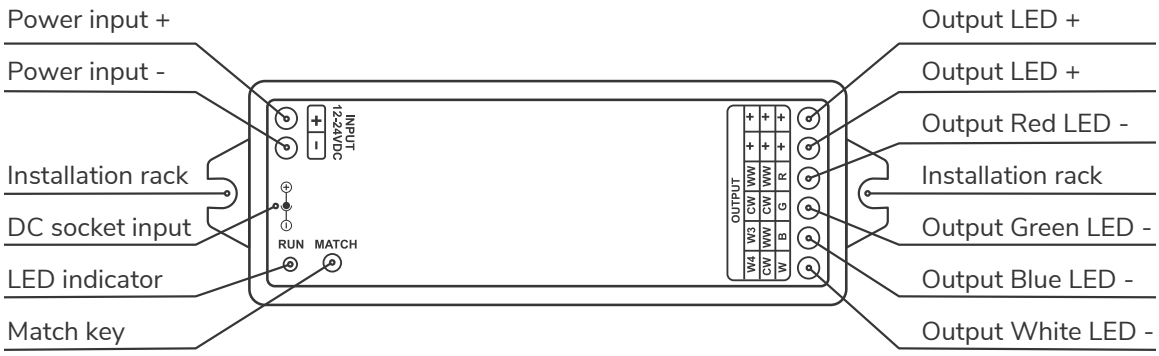
DIMENSIONS

114mm x 38mm x 20mm (L x W x H)

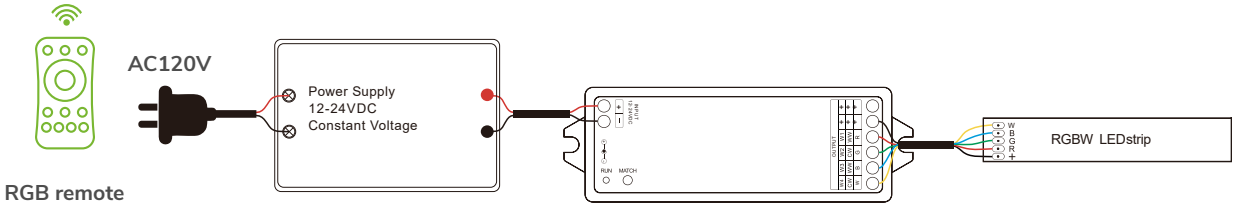
STARTING KIT - 4 CHANNEL LED RECEIVER

LCLP-REC12A-UNI

MECHANICAL STRUCTURES AND INSTALLATIONS



WIRING DIAGRAM



Note: If connected with a RGB LED strip, press the match key for 15s to switch the receiver to RGB mode.

STARTING KIT - 4 CHANNEL LED RECEIVER

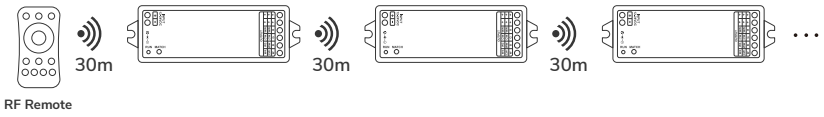
LCLP-REC12A-UNI

APPLICATION NOTES

1. All the receivers in the same zone.

Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m and so on.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote, under the same dynamic mode and with the same speed.



Receiver placement may offer up to a 30m communication distance. Metals and other magnetic materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will also affect the range. We recommend a maximum of 15m spacing between receivers indoors.

2. Each receiver in a different zone.

You can use as many individual zones as the remote supports.

You can use multiple receivers on the same zone as long as you respect the 30m rule, explained above in point number 1.

3. Light on/off fade time

Long press the match key 5s, then short press the match key 3 times, the light on/off time will be set to 3s, the indicator light will blink 3 times.
Long press the match key 10s to restore the factory default parameter, the light on/off time also restore to 0.5s.

RGB/RGBW DYNAMIC MODE LIST

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow, Cyan, Purple smooth	10	White fade in and out

Dual color control
CH1, CH3=Warm white LED
CH2, CH4=Cool white LED
Each channel can supply up to 96W (@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral White	Warm white
Power distribution	CH1=0W, CH2=96W	CH1=48W, CH2=48W	CH1=96W, CH2=0W
	CH3=0W, CH4=96W	CH3=48W, CH4=48W	CH3=96W, CH4=0W