

LW-REM-1

2.4G LED Dimming Controller



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LW-REM-1 is the 2.4GHZ RF wireless synchronization/zone dimming controller which adopts Led Supplies multiple global initiate technology. The control system consists of two parts, the RF remote control and receiver, realize the signal synchronization on multiple receivers, zone controlled arbitrarily (no more than 8 zones) within effective distance, a very good solution for the LED project needs sync/zone control wirelessly. Can RF remote the functions of dimming, quick brightness selection and DIY and so on. User-friendly color wheel for brightness adjustment, unique LED state light for sync change indicated, user can simply know the LED working state from distance by checking the remote.

1. Technical Specs:

LW-REM-1 Remote Control

- Input Voltage: DC5V Built-in Lithium Battery
- Working Current: ≤30mA
- Working Frequency: 2.4GHZ
- RF Remote Distance: 30m
- Remote Option: Sync or Zone Control
- Battery Capacity: 1000mAh
- Standby Time: ≤6 Months
- Dimensions: L145×W55×H22(mm)
- Package Size: L168×W102×H28(mm)
- Weight (G.W.): 200g

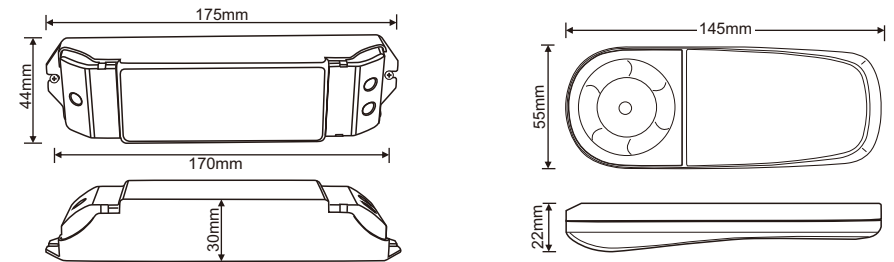
LW-REM-1 CV Receiving controller

- Input voltage: DC5V~DC24V
- Max current load: 5A+5A Max 10A
- Max output power: 50W/120W/240W(5V/12V/24V)
- Compatible remote control: T1/T2/T2M
- Working temperature: -30℃~55℃
- Dimensions: L175×W44×H30(mm)
- Package Size: L178×W48×H33(mm)
- Weight (G.W.): 110g

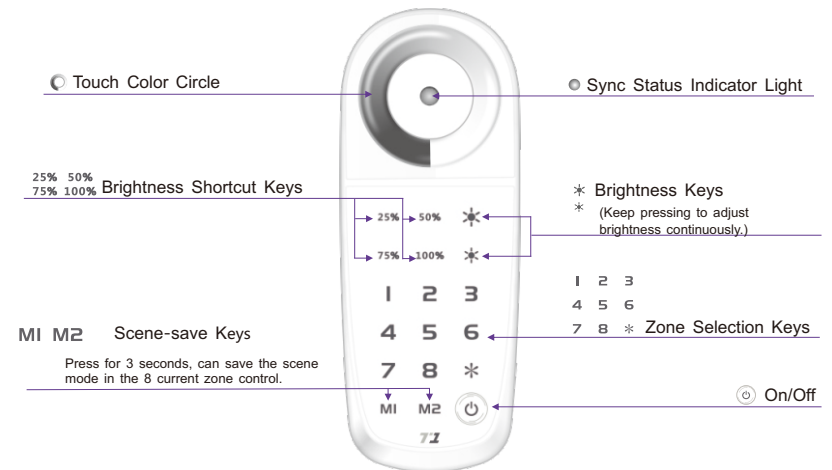
2. Performance Features:

1. Adopt 2.4GHZ RF wireless transmission technology, which is applicable for license and patent free worldwide.
2. Built-in with dual-core driver, make it 10 times of processing speed. can process the wireless data transmission in complicated and multiple levels.
3. Advanced RF wireless sync/zone control technology, no sync signal wire between receiver, sync capability is stable and reliable.
4. Remote control adopts the capacitive touch control technology on the wheel, make the dimming more Intellectualized and humanized.
5. The remote control built-in sync-status indicator, which can show the bright status of the LED synchronously.
6. Color changing scene mode and preset storage function.
7. USB charging port.

3. Product Size:



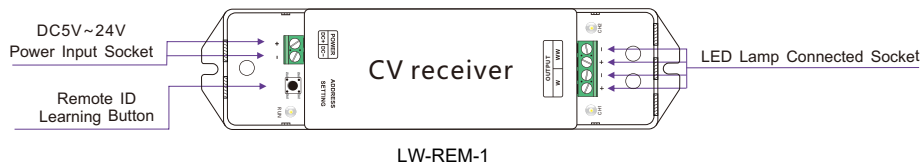
4. Operation Panel and Component Instruction:



Zone selection keys instruction

- Select one of the zone: press keys 1-8 on the remote control.
- Select zone control arbitrarily: press" *+any number+* ", eg: take 456 as a zone, should press" *456* ".
- All choose(8 zones): press" * " twice.
- When a zone is under inactive state, press the "zone selection key" to light up that zone.

★Other function: Press "ZONE SELECTION KEYS" * in 3 seconds, the buzzer can be on or off.



7. System Diagram:

Unlimited receivers can be installed in per zone within the effective distance, no wiring needed between the receivers, the installed number of LED receivers in per zone can be increased or decreased at any time based on the actual requirements. if you want to increase or decrease the receivers, just activate or cancel the control ID on the remote control will be fine, no any changes and effects on other receivers.

After installation, customers have three zone-control choices via remote control :



1. Chose one zone separately: anyone zone in 1-8 zones.
2. Choose combination zone-control arbitrarily: the arbitrary zone-control combination are available in 1-8 zone, such as 246, 678 etc.
3. All choose: choose all 1-8 zone.


5. The Charging Methods for Remote Control:

1. When charging, please connect USB cable to the mobile charger or computer with the USB interface.
2. The downside white light of 3 in 1 white LED indicator flickers while charging, and the upside white indicator light is on, means the charging is finished. The remote control can be chargeable even at the OFF state, on which the indicator light is black.
3. No memory effect in the lithium battery of remote control. Follow the standard charging procedure, no need for overcharge for the first 3 times .
4. Indicator light flickers(the right side white indicator light is on) meaning low battery and need to be charged. charging in low battery will affect life of battery.
5. Please make sure about 50% battery remaining on the remote control for long time no use, and it needs to be charged at least two or three months, otherwise the capacity of the battery would be decreased or the battery gets damaged.



6. The learning ID method of remote control:

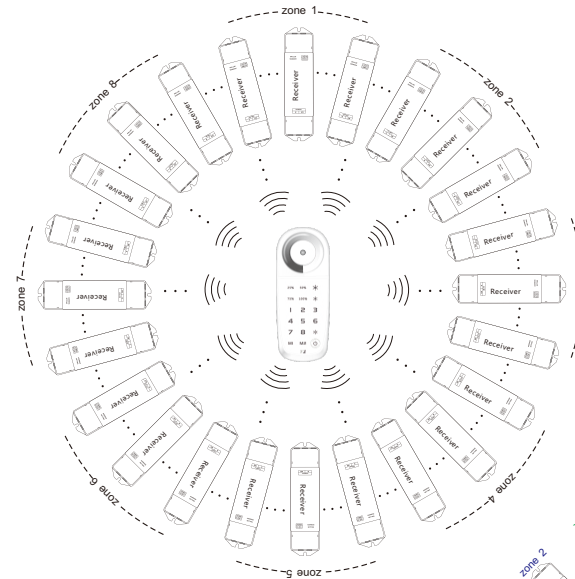
Learning ID:

1. Turn on the receiver and remote control
2. Press ID learning button  on the receiver for 2 seconds, there is a buzzer sound, keep pressing, and press the key 1-8 on the remote control immediately, until the white LED indicator light  flashes 3 times (the buzzer long ring at the same time), release all keys.

 If installing multiple receivers in one zone, repeat the above steps, choose the same area key when ID learning.

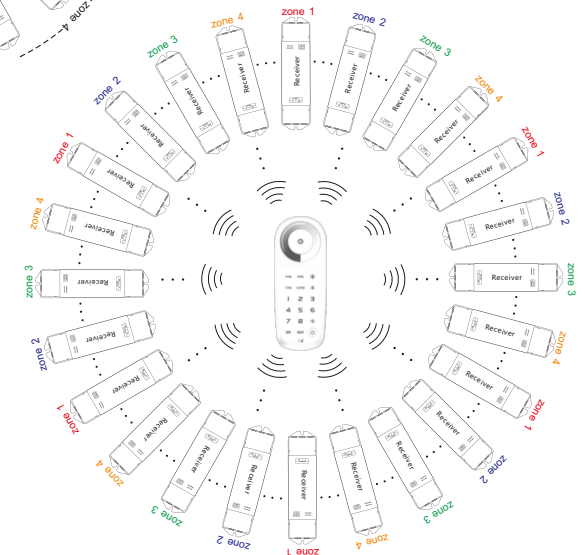
Cancelling ID:

1. Turn on the receiver and remote control
2. Press ID learning button  on the receiver for 2 seconds, there is a buzzer sound, keep pressing, and press the key 1-8 on the remote control after 5 seconds, until the white LED indicator light  flashes 3 times (the buzzer long ring at the same time), release all keys.



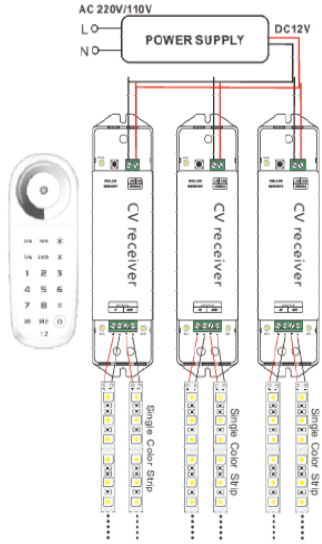
Centralized Zone-division

Spacing Zone-division

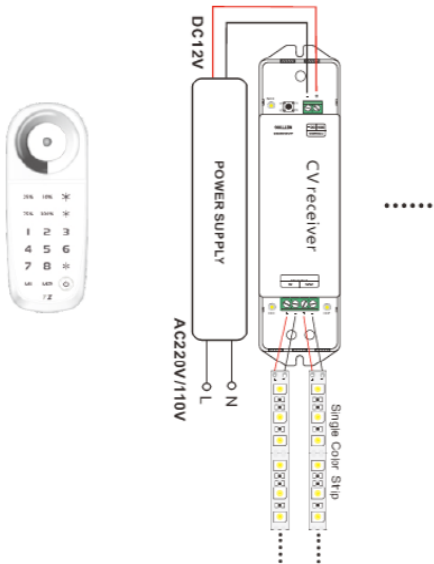


8. Wiring Diagram:

1、Multiple Receivers are Powered by One Power Supply :



2、Each Receiver is Powered by One Power Supply Independently :



9. Attention:

1. The product shall be installed and serviced by a qualified person.
2. This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
3. Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
4. Please check if the output voltage of any LED power supplies used comply with the working voltage of the product.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

10. Warranty Agreement:

1. We provide lifelong technical assistance with this product:

- A 3-year warranty is given from the date of purchase. The warranty is for free repair or replacement and covers manufacturing faults only.
- For faults beyond the 3-year warranty we reserve the right to charge for time and parts.

2. Warranty exclusions below:

- Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
- The product appears to have excessive physical damage.
- Damage due to natural disasters and force majeure.
- Warranty label, fragile label and unique barcode label have been damaged.
- The product has been replaced by a brand new product.