

## LT-311 LED Dim controller



LT-311 multi-functional LED Dim controller is dedicated to control single color changes (common anode), LED lamp's brightness and synchronic color changing effect. Extensively used in all kinds of LED lighting decoration.

If used together with our LT-3060 power repeater, each can control twice the quantity of LED lights by every adding one more, which can achieve unlimited power expansion.

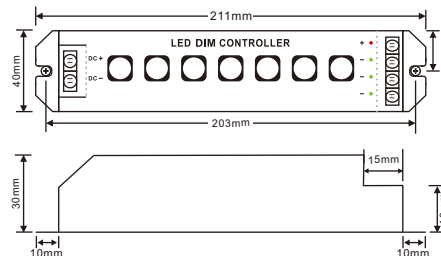
### 1. Technical Specs

LT-311(Common Anode)	
Power supply chosen	DC CV SMPS
Input voltage	DC5V~DC24V
Max current load	6A/CH×3CH 18A Max
Max output power	90W/220W/450W(5V/12V/24V)
Grey step	256 steps
Working Temperature	-30°C-55°C
Dimension	L211×W40×H30(mm)
Package Size	L215×W43×H33(mm)
Weight (G.W)	180g

### 2. Features

1. Auto switch to LED lights with voltage from DC5-24V;
2. ON/OFF button function available;
3. 3-Channel RGB full color control, maximum outputs 6A per Channel;
4. Speed of each mode is adjustable separately from 1-8 level, and the color depth can be 256 levels;
5. Three color changing modes for choice: color strobe, color skipping and color gradual, 8 levels speed changing;
6. 5 easy brightness selecting function, 64 levels brightness gradual adjustment,
7. 0%, 25%, 50%, 75% and 100% brightness easy select,
8. 3 DIY modes;
9. Remote controllable(optional).

### 3. Size



### 4. Operating instructions

The controller has 7 function buttons:

**ON/OFF, MODE, BRT/ SPEED+, BRT/ SPEED-, DIY1, DIY2, DIY3**

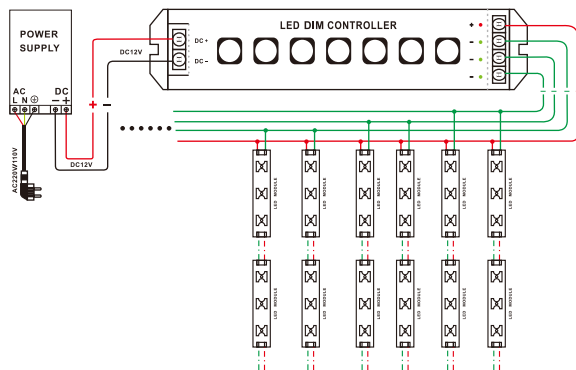
Sign	Button	Description
	<b>ON/OFF</b>	<b>ON/OFF:</b> Turn on/off the controller Any button can start the controller at off status
	<b>MODE</b>	<b>MODE:</b> press it to enter into next mode
	<b>BRT/ SPEED+</b>	<b>BRT/SPEED+:</b> press it at the BRT status to increase the brightness. press it at the Speed status to increase the speed
	<b>BRT/ SPEED-</b>	<b>BRT/SPEED-:</b> press it at the BRT status to decrease the brightness. press it at the Speed status to decrease the speed
	<b>DIY1</b>	<b>DIY1:</b> Press it for 3 seconds, LED flashes twice, and then remember the current brightness or color changing effect and speed, just press it once then enter into pre-setup status
	<b>DIY2</b>	<b>DIY2:</b> The same as above
	<b>DIY3</b>	<b>DIY3:</b> The same as above

5. Tables of changing modes

Sequence	Modes	Description
1	Static brightness 1	0% brightness, support BRT adjustment
2	Static brightness 2	25% brightness, support BRT adjustment
3	Static brightness 3	50% brightness, support BRT adjustment
4	Static brightness 4	75% brightness, support BRT adjustment
5	Static brightness 5	100% brightness, support BRT adjustment
6	Color strobe	8 levels speed adjustment,
7	3 channel color skipping	8 levels speed adjustment,
8	Gradual dark and gradual bright	8 levels speed adjustment,

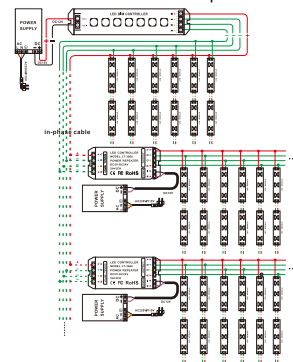
6. Conjunction sketch map

Connected to LED RGB module;



7. Conjunction diagram, working with Power Amplifier

(Connected to LED module as an example)



8. 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 to avoid the accidents due to overheat and poor contact on the wire.
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.

9. 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.
3. Repair or replacement as provided under this warranty is the exclusive remedy to the customer. Ltech shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
4. Any amendment or adjustment to this warranty must be approved in writing by Ltech only.

★ This manual only applies to this model. Ltech reserves the right to make changes without prior notice.