

LT-311RF LED Dim controller

User's Manual



(Please kindly read this manual before use)

Forward

Thanks for choosing our LT-3700RF RGB Controller. Before installation and usage, we strongly recommend you to read through this manual carefully.

After-Sales

From the day you purchase our products within a year, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

1. Any defects caused by wrong operations..
2. Any damages caused by inappropriate power supply or abnormal voltage.
3. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
4. Any damages due to transportation, breaking, flooding water after the purchase.
5. Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.
6. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.
7. Product has been updated.

Safety warnings

1. Please don't install this controller in lightening, intense magnetic and high-voltage fields.
2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Check if the voltage and power adapter suit the controller (**please select DC12-24V power supply with constant voltage**)
5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open controller cover and operate if problems occur.

The manual is only suitable for this model, any update is subject to change without prior notice.

Product Brief

LT-311RF 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.

I . Technical Spec

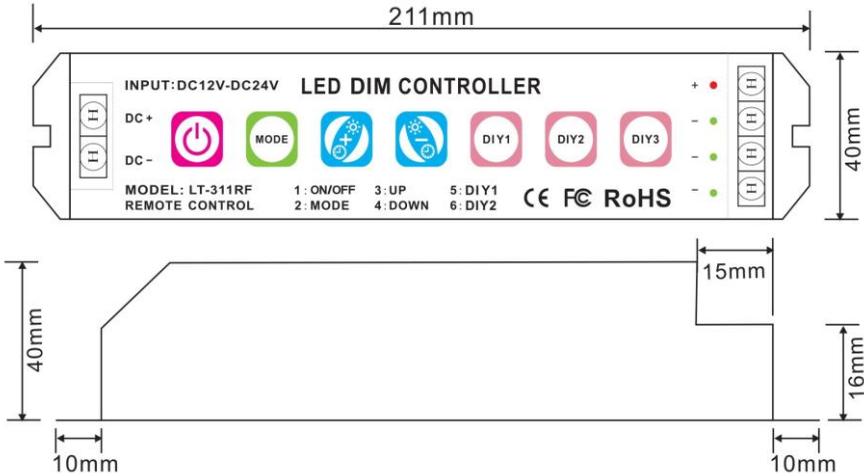
LT-311RF

Input power	DC12V~DC24V
Max current load	6A/CHX3CH
Output power max	220W/450W(12V/24V)
Grey scale	256 levels
Remote control	50m with obstacles,100m without obstacles distance
Speed	8 levels
BRT adjust	64 levels
dimension	L211XW40XH30(mm)
Package size	L293XW43XH33(mm)
Weight(gross)	210g

II . Features

- 1.Auto switch to LED lights with voltage from DC12-24V,
- 2.3-Channel RGB full color control, maximum outputs 6A per Channel,
- 3.Speed of each mode is adjustable separately from 1-8 level, and the color depth can be 256 levels,
- 4.Three color changing modes for choice: color strobe, color skipping and color gradual, 8 levels speed changing,
- 5.5 easy brightness selecting function, 64 levels brightness gradual adjustment,
- 6.0%、25%、50%、75%、100% brightness easy select,
- 7.3 DIY modes,
- 8.Remote controllable

III. Product Dimension



IV. 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	3CH color skipping	8 levels speed adjustment,
8	Gradual dark and gradual bright	8 levels speed adjustment,

V. Operating instructions





The controller has 7 function keys:

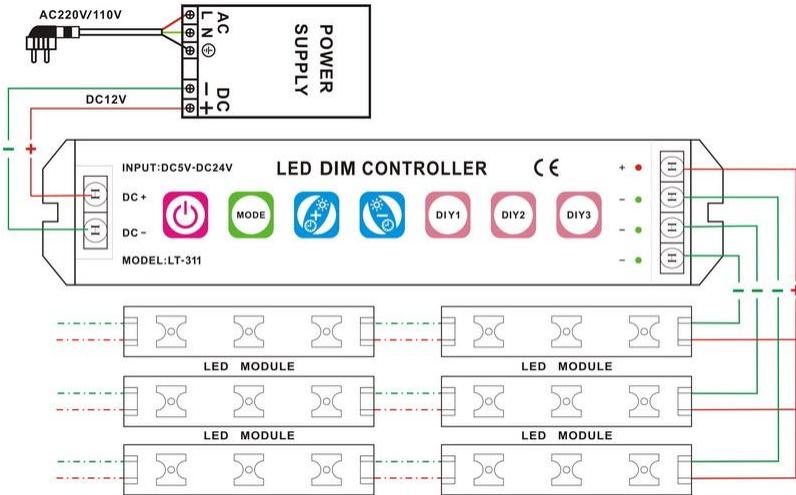
ON/OFF、MODE、BRT/ SPEED+、BRT/ SPEED-、DIY1、DIY2、DIY3
 the first 6 buttons corresponding to Buton1,2,3,4,5,6 in the remote controller.

Sign	Button	Description
	ON/OFF	on/off key: start or turn off the controller  At the Off status, press any key to start the controller
	MODE	Mode key: press it to enter into next mode
	BRT/ SPEED+	BRT/ SPEED+: press it at the BRT status to increase the brightness, press it at the Speed status to increase the speed
	BRT/ SPEED-	BRT/ SPEED-: press it at the BRT status to decrease the brightness, press it at the Speed status to decrease the speed
	DIY1	DIY1: 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
	DIY2	DIY 2: The same as above

	DIY3	DIY 3: The same as above
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VI. Connecting scheme

1. Take single color LED Module as an example as follows



VIII. Exception Handles

Malfunction	Causation	Settle
No Light	1.No power from plug 2.Power supply protector works 3.Incorrect connection	1.Check the socket 2.Check the malfunction, re-power on 3.Check connection
Incorrect color Amplifier not in phase	4.Output wire too long 5.Wire diameter too thin 6.Overload beyond controller capability	4.reduce wire length or use loop circuit to power on 5.Calculate the current and change to a thicker wire 6.Change the power supplier or add a power amplifier

