

VF84

IR LED Controller

User Manual



Please read this brochure carefully before using this controller.

- **Instructions**

Thanks for using T80-(3310) i25 controller of our company. Before installation, please read this manual carefully to ensure fully understand and proper use in order to avoid unnecessary damages to the controller.

Before using, please check to confirm whether there is any damage caused during the transport process, if there is, please notify your supplier and do not use the product.

● **After-sale services**

Warranty of this product is one year, in this period we guarantee repairing or replacement service with no charge if it is normally used according to the instruction.

If the customer does not follow the instructions and following provisions in this manual, which results in product damage, the supplier is not responsible for any problems arising and defects, even in the warranty period, maintenance costs borne by the customer.

1. Damage caused by misuse, such as not in accordance with the instructions.
2. Damages caused by unauthorized removal, repair, modify of the circuit; incorrect connection and replacement of the chips.
3. Damage caused by transportation, shock, falling after purchase.
4. Damage caused by earthquake, fire, flood, lightning and abnormal voltage.
5. Damage caused by negligence or improper maintenance, such as storage at high temperature and humid environment, vicinity of hazardous chemical substances.
6. Replacement of products.

● **Instructions for safety**

Making sure you use the product perfectly and safely, please observe the instructions and warning on this manual.

Attention! Operate cautiously and read these instructions carefully.

1. For installation, try to avoid the minefields, strong magnetic field and high-pressure area.
2. Ensure that the wire is connected correctly and firmly in order to avoid short-circuit damage to parts and posing a fire hazard.
3. Please install controller in a well-ventilated place to ensure that the ambient temperature is moderate.
4. Before using this product, please check the DC power and voltage meet the product technical requirement; positive and negative polarity is defined consistent to the product.
5. Prohibit live wiring, check to confirm wiring is correct, if no short-circuit, then power!
6. If any problems do not make unauthorized repairs. Any doubts please contact your local supplier.

This manual applies only to this product of our company, subject to changes without notice.

● **Introduction**

T80-(3310) series dimmer controller is a smart RGB three colors light controller dedicated to long-illumination LED light. Using the most advanced PWM (Pulse Width Modulation) digital control technology, the controller can be operated through IR wireless remote controller. It is available to commercial use and it can be installed invisibly. The installation of LED controller can meet the light requirements of commercial or family lighting at different times and different circumstances, extend the LED life span, and save energy; LED and RGB lights can use this controller to decolorize.

1. Technology specifications

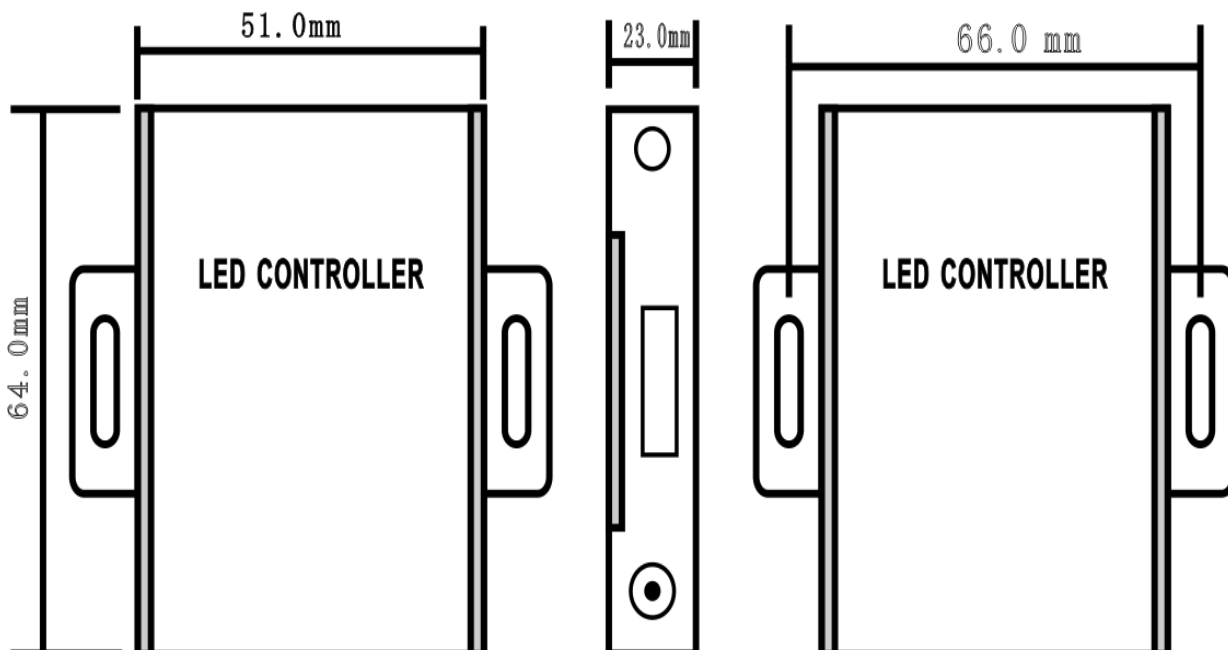
Type	T80-(3310)i25
Input power	DC 12V
Output signal	3-way 3-channel RGB signal control
Max load current	18A (2*9A)
Output power	216W(12V)
Controller dimension	77*65*23.5(mm)
Remote dimension	52 *85*7.5(mm)
Packaging dimension	87.5*45*96 (mm)
Gross weight	120g

2. Functions

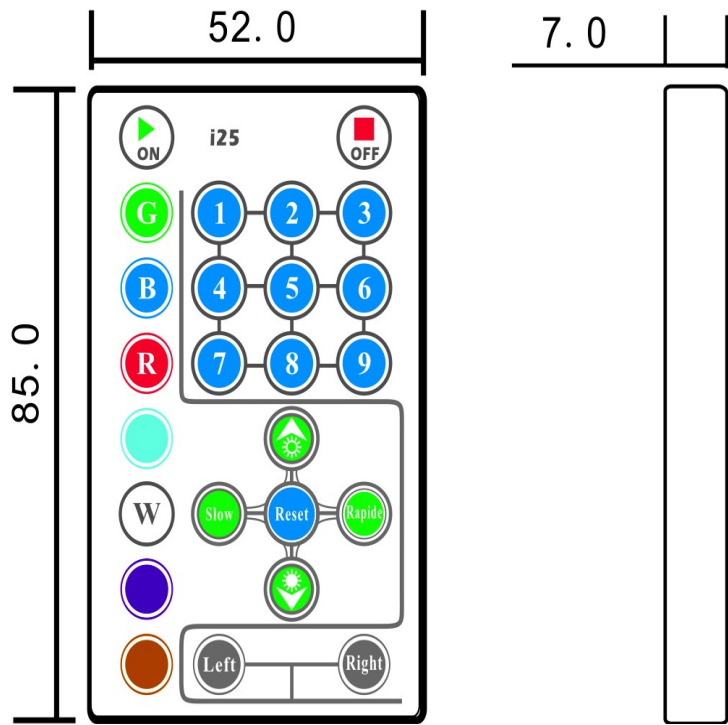
- (1).RGB full colors LED strip controller.
- (2).Control way: IR control, it is available in 10-meter (No barriers).
- (3).Display: Totally 40 kinds, 7 single color running water color changes, 7 colors static, 7 single colors forward/diverse chasing , multicolor gradual change, 7 colors jump change, 7 colors chasing, 7 single color gradual change, multicolor gradual change.
- (4).Speed of dynamic and brightness of static can be adjusted.
- (5).Power-off memory.
- (6).Of functions of both controller and dimmer.
- (7).Standby function.
- (8). Colorized control panel
- (9).Silver shell.
- (10).3-way 3-channel RGB signals (Common anode/cathode).

3. Structure

- (1).View of master controller: (chart 1)

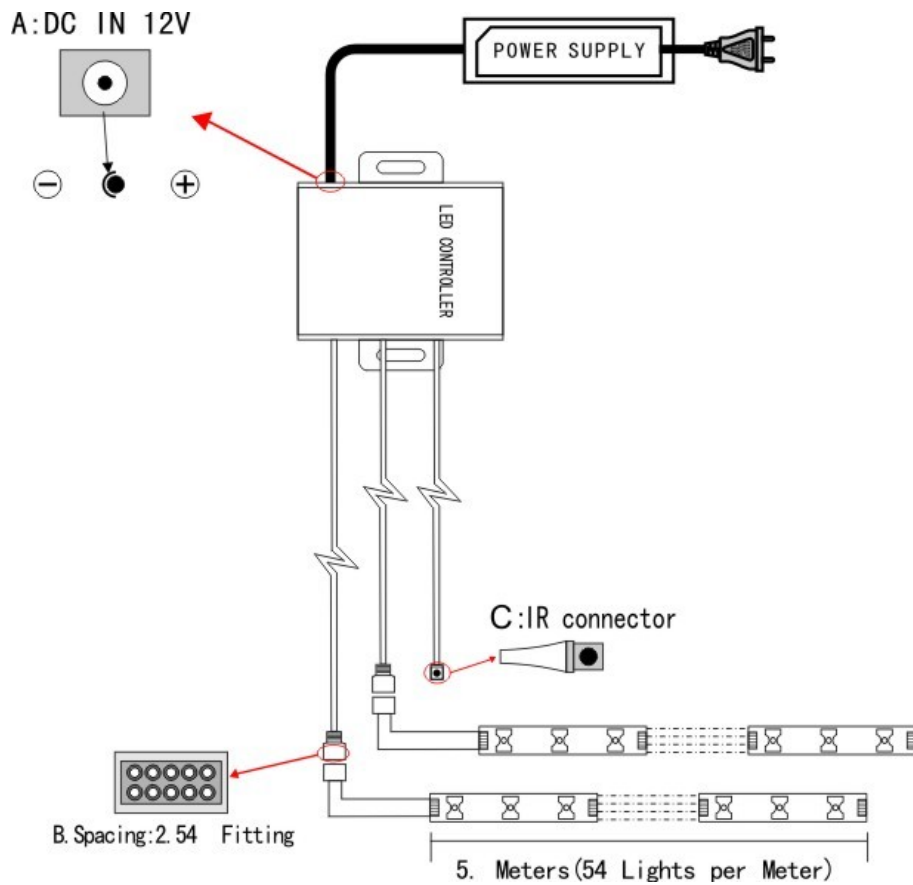


- (2).View of remote controller: chart 2







4. Connection diagram of controller

(1).Connection diagram to low power LED: [chart 3]



(2). Descriptions for panel and remote controller keys. (Table 1)

Key	Name	Function
	OFF/ON	On/off: turn on or off the LED controller
	BRT+/BRT-	 : Increase/decrease brightness, totally 256-level brightness, press and hold can change brightness continuously.
1 09	Mode	In each pure color mode, press these keys can select mode.
	Speed up	Increase Led speed, press and hold to increase speed continuously
	Speed down	Decrease Led speed, press and hold to decrease speed continuously.
	Direction	Press this key can change LED light direction.
	Reset	Reset
	Static green	
	Static blue	
	Static red	
	Static cyan	
	Static white	
	Static purple	
	Static yellow	

5. Failure analysis and solutions (Table 2)

Failure	Analysis	Solutions
No light	<ol style="list-style-type: none"> 1. No power. 2. Reversed the polarity. 3. Wrong connection or poor contact. 4. LED light has been bad. 	<ol style="list-style-type: none"> 1. Check the power 2. Make sure the polarity is right. 3. Re-check wire connection.
Brightness of LED is not consistent	<ol style="list-style-type: none"> 1. Input wire is too long to cause wire loss. 2. Diameter of wire is too thin to cause wire loss. 3. Power overload. 4. Controller overload. 	<ol style="list-style-type: none"> 1. Shorten wire or use loop circuit. 2. Calculate current, and then replace thick wire. 3. Replace larger power. 4. Add a power amplifier

Tips: The effective power is generally only 80% of the marked power, so it is recommended in selecting the power supply, the user choose a slightly larger one than the LED load power, at least for more than 20%!

Appendix: dynamic modes description Table 3.

Mode	Description
Single color running-water change	Red, green, blue, yellow, cyan, purple, white static

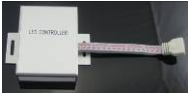

Single color static	Red, green, blue, yellow, cyan, purple, white static
Multicolor jump change	Red→ green→ blue→ yellow→ cyan→ purple→ white
Single color tracing	Red, green, blue, yellow, cyan, purple, white static
Multicolor gradual change	Red→ green→ blue→ yellow→ cyan→ purple→ white
7 colors gradual change	Red, green, blue, yellow, cyan, purple, white static
Single color gradual change	Red, green, blue, yellow, cyan, purple, white static
Multicolor gradual change	Red→ green→ blue→ yellow→ cyan→ purple→ white

6. Packaging

(1).Packaging details (chart 4)



(2).Packaging list (Table 4).

Symbol	Name	Picture	External dimension[mm]	QTY	Unit
A	T80(3310)i25 Controller		65*77*23.5(mm)	1	PCS
B	i25(remote)		52*85*7.5 (mm)	1	PCS
C	Manual	80E3310-i25	A6 sheet	1	PCS