

JM16 Advertising LED Controller

User's Manual

Rev. A/0

United East Electronic Industrial CO., Ltd.

Dear valued customer,

Thank you for buying UE product of 16 pixels advertising LED controller. The controller has 8 selectable in-built programs (7 color changing gradually, stacking blocks, chasing, water flow, scanning etc.). The change speed is adjustable; 48 (16*3) line full color outputs. Lighting changes smoothly. Install easily and apply conveniently. It uses wide in advertising letters, billboards, door frame decoration etc.

Before you run the 16 pixels advertising LED controller, in order to use the product properly, please read this manual carefully.

I. Important Safety Information

The product uses ABS plastic outer case and flameproof PCB

1. Ensure the LED light source matches input voltage
2. Use DC12-48V power supply
3. Connect to common anode light source
4. Connect 4 switching power supplies at the most
5. 4pcs of 25A fuse inside
6. Must be far away from flammable and explosive articles
7. Please use high quality of power supply, or it may cause controller to work wrongly and damage circuit
8. Be careful on waterproof protection

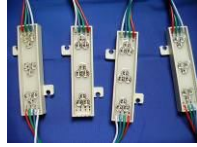
II. Outside View

- 1、16 pixels advertising LED controller



- 2、Accessories

Switching power supply, light source (LED modules), light source (LED String Lights)

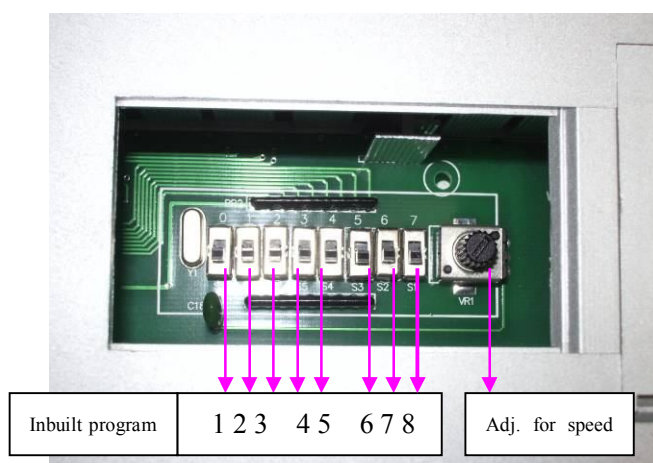


Light source (LED tube Lights), light source (bar lights), light source (light board)



III. Functions:

1. 8 selectable in-built programs; combination at will
2. PWM refresh resolution rate 256
3. 16 pixels (48 lines) outputs, each pixel contents RGB full color outputs
4. drive several of LED light sources
5. Have LED indicator to show signal transmission status, resolve alignment errors or short circuit problems promptly
6. Fast connectors, connect conveniently
7. adjustable change speed
8. align conveniently, apply easily



Program switch: down is ON, up is OFF. 8 in-built programs are:

1. program 1: 7 color changing gradually
2. program 2: stacking blocks
3. program 3: red, green, blue change left and right repeatedly
4. program 4: grayscale scanning

5. program 5: pink, green chasing
6. program 6: single unit jumping change from right to left
7. program 7: changing from center to both sides gradually
8. program 8: water flow, from left to right

Speed adjust knob VR: to fast speed by clockwise, to slow speed by anticlockwise,

V. How to use it:

1. Connect the LED light source to the controller terminals of R, G, B, V+ in order, from the first pixel to the sixteenth pixel one by one. There are detailed indicators on outer case of the controller, see figure 2.
2. Connect switching power supply to +, - terminals on the controller, total 4 terminals, 4 switching power supplier can be connected. Connect the switching power supply quantity, according to the power consumption of the light source. When the power consumption of the light source is relatively low, one switching power supply is enough (+, - terminals must be connected correctly). When the power consumption of the light source is high, connect 2 to 4 switching power supplies, see figure 3.
3. Open the selection cover, slide the program switches up or down, to select your desired program. One or several programs can be used at will. Slide “ON” to select a program, “OFF” not to select.
4. Turn around the VR to change the speed. Clockwise to change fast, otherwise to change slow.

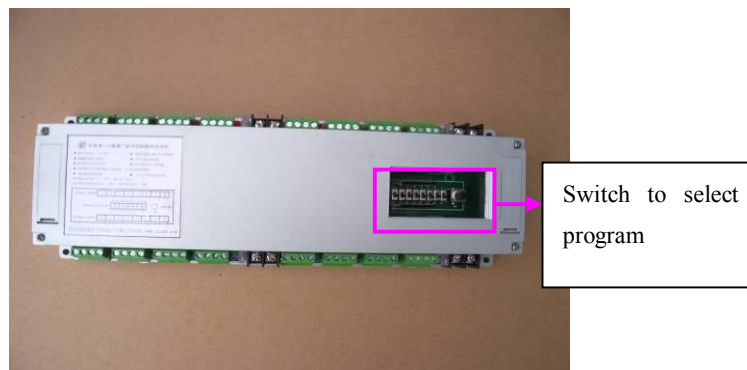


Figure 1 (selection door for programming and VR adjusting)

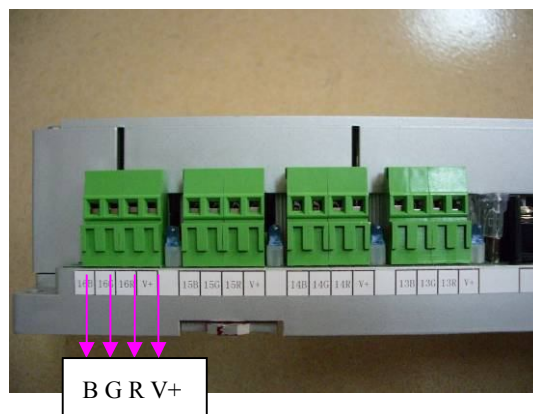


Figure 2

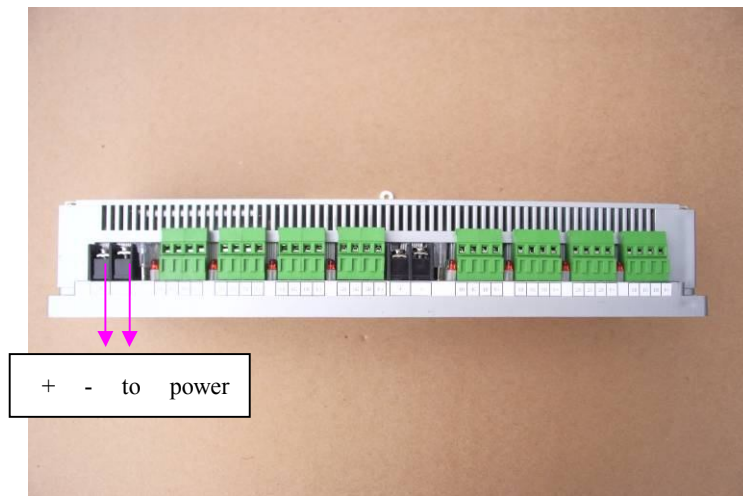
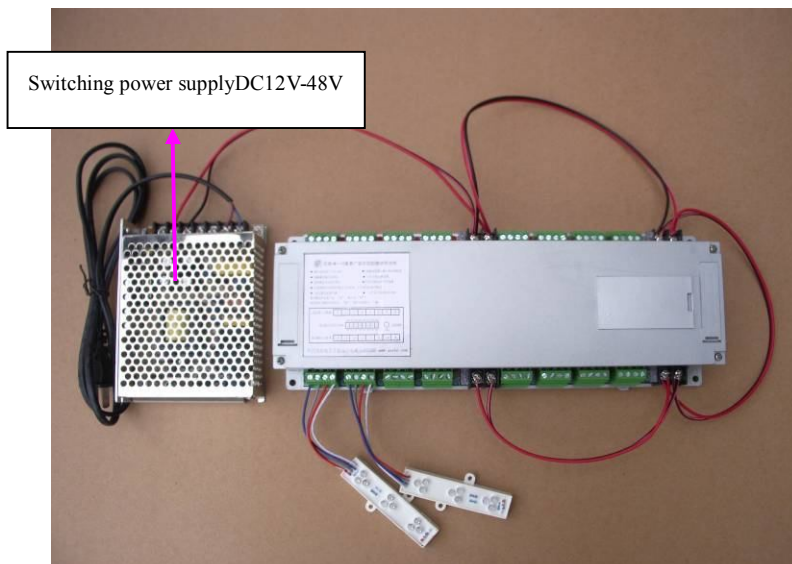


Figure 3

VI. Alignment ruslt



VI. Specifications

1、circuit operation environment

- ①surrounding temperature: -10°C — 40°C ;
- ②relative humidity: 10%—90%。

2、Power supply

- ①switching power supply ranges: AC 100—240V
- ②JM16 advertising LED controller voltage: DC 12-48 $\pm 0.5\text{V}$
- ③ R, G, B each line current of the controller, max 4A

VII. Service and Maintenance

The company provides service based on stipulates of the consumer protection law, and under the sight of receipt / invoice.

- 1.within 1 year of purchasing the product, and not damaged by the user, the company will repair the failed product freely
- 2.damaged by improper usage or maintenance, the company will repair the product with a certain service charge
- 3.please contact UE company or the distributors when having quality problems
- 4.any updates on the manual will not notice further, if you have any questions please call the company phone directly