RGB LED Digital Knob Controller

Part number: RGB-Digi-Knob

The three channel LED dimmer is an intuitive solution to access the full color capabilities of your 12V or 24V RGB LED Product. Apply the correct DC voltage to the inputs and the controller will generate pulse dimming signals on three separate output channels (Red, Green, Blue).

Features

- 16,777,216 unique colors
- Digital read-out display of output level (0-255 Scale)
- 3 rotary knobs
- Over current protection & short circuit protection

Application

- Recommended for: 12V or 24V RGB LED products which require a 4-pin-output controller (1 Power, Red, Green, Blue)

Specifications

Dimensions (L x W x H)	176 mm x 46 mm x 46.5 mm 6.93" x 1.81" x 1.83"
Weight	210 grams 7.41 oz
Channels	3: Red, Green, & Blue
Voltage	12 - 24 V
Maxium power	216 watts at 12 VDC. 18 amps total. 6 amps per channel. 432 watts at 24 VDC. 18 amps total. 6 amps per channel.

Wiring

1. Confirm that the power supply voltage matches the LED voltage and that the power supply is unplugged.
2. Unscrew and Remove the housing covers on the ends of the controller to reveal pins and screw terminals.
3. Connect the unplugged power supply to the controller input using the screw terminals.
   a. DC power supply positive wire to controller input positive terminal (DC+).
   b. DC power supply ground/negative wire to controller input negative terminal (DC-).
4. Connect the RGB LED Product (in this example LED Strip) to the controller output.
   a. LED voltage wire to controller output voltage (V+).
   b. LED red wire to controller output Red (R).
   c. LED green wire to controller output green terminal (G).
   d. LED blue wire to controller output blue terminal (B).
5. Screw the housing covers back on.
6. Plug in the power supply.
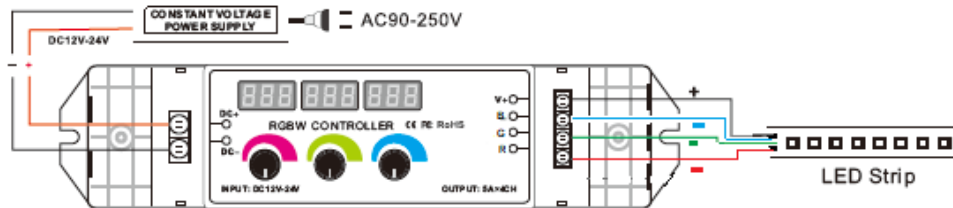
Operation

1. After wiring and applying power, the controller will turn on.
   a. If the LED product shows a color, turn the respective knob(s) to the right and resume normal functionality.
2. Use the rotary knobs to adjust each color setting from 0-255. Clockwise is positive.
3. The product will reflect the exact color related to the RGB color code.
   a. For example: Turning the red-rotary-knob completely clockwise will display the following:

*The controller will display the following when overloaded: