

# StudioPro Digital Knob 5-in-1 LED Controller Manual

Part number: 5in1-Digi-Knob-SP



The five channel LED dimmer is an intuitive solution to access the full color capabilities of your 12V to 48V 5 channel LED products. Apply the correct DC voltage to the inputs and the Controller will generate pulse dimming signals on five separate output channels.

## Features

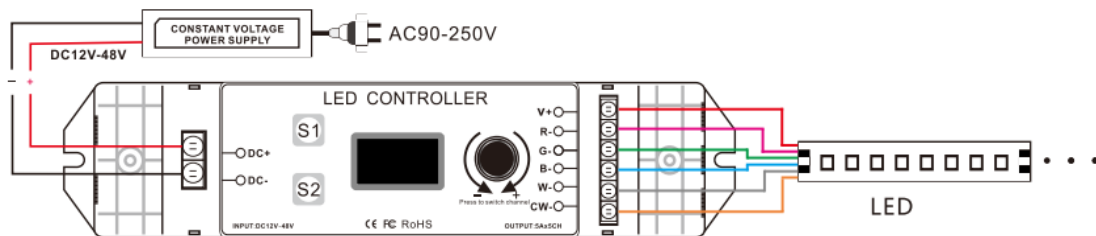
- 0-255 dimming values for each channel
- 1 rotary knob
- 12V to 48V DC Operation
- Over current protection & short circuit protection
- 20kHz PWM Dimming

## Specifications

Dimensions (L x W x H)	176 mm x 46 mm x 45.5 mm 6.93" x 1.81" x 1.79"
Channels	5
Voltage	12 - 48 V
Maxium power	60 watts per channel at 12 VDC. 25 amps total. 5 amps per channel. 120 watts per channel at 24 VDC. 25 amps total. 5 amps per channel. 180 watts per channel at 36 VDC. 25 amps total. 5 amps per channel. 240 watts per channel at 48 VDC. 25 amps total. 5 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. Connect the DC power supply positive wire to Controller input positive terminal (DC+).
  - b. Connect the DC power supply ground/negative wire to Controller input negative terminal (DC-).
4. Connect the LED Product (in this example LED Strip) to the Controller output. The positive wire from the LED product should connect to the V+ terminal on the Controller. Each color can then be connected to the channel with the corresponding letter: "R" terminal for red, "G" terminal for green, "B" for blue, "W" for white, and "CW" for cool white.
5. Screw the housing covers back on.
6. Plug in the power supply.



## Operation

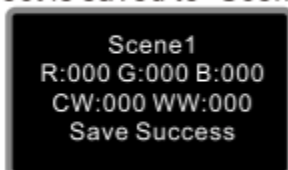
1. After wiring and applying power, the Controller will turn on.
2. The Controller has three states: screen-off, normal, and adjustment state.
  - a. Press any button on the Controller to turn from the screen-off state to the normal state.
  - b. Press the rotary dial in the normal state to turn from the normal state to the adjustment state.
3. In the adjustment state, rotate the dial to adjust the value of the current color. Press down on the dial to select a different channel to adjust. For example, the green channel is being adjusted in the image below:



**Current adjustment color: Green**

4. This Controller can save 2 custom scenes using the S1 and S2 buttons.
  - a. Long press the S1 or S2 button to save the current scene to that value.

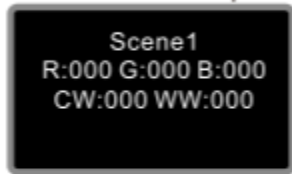
**As shown in the picture, the current light effect is saved to "Scene1":**



**Current saved Scene1**

- b. Short press the S1 or S2 button to recall the saved scene.

**As shown in the picture, the "Scene1"  
scene mode is called up.**



**Scene mode is called up**

**Note: Calling up the scene will override the  
current light state.**

## Remote Control Operation

1. In the normal state or the adjustment state, long press the rotary dial to enter the pair mode.
2. Press any button on the remote control to attempt to pair to the Controller.
3. When the remote has successfully pair with the Controller you will see the following confirmation screen:

As shown in the picture:



NOTE: The Controller can only be paired with one remote at a time. This means that pairing a new remote will overwrite the previous one.

## Remote Control Functions

Keys and their functions:

Sign	Button	Description
	ON/OFF	Turn on or off the lights of the corresponding channel for the remote control type (RGB or CCT).
	MODE	Short press to switch dynamic mode, long press to call up MODE10 when the remote control is in RGB type.
	BRT	Increase the brightness of the light, totally 8 levels.
	SPEED	Increase the running speed of dynamic mode, totally 8 levels.
	SCENE1	Short press to call up the scene, long press to save the current light state to the Scene1 button.
	SCENE2	Short press to call up the scene, long press to save the current light state to the Scene2 button.
	RGB	Switch the remote control to RGB type, and the RGB light dynamic breathing effect is used as a remote control type switching prompt.
	CCT	Switch the remote control to CCT type, and the CCT light dynamic breathing effect is used as a remote control type switching prompt.

Mode descriptions:

Mode No.	Model	illustrate	Remark
1	3 color skipping	RGB 3-color skipping	Brightness, speed adjustable
2	7 color skipping	7-color skipping	Brightness, speed adjustable
3	White strobe	White strobe	Brightness, speed adjustable
4	3 colorsmooth	RGB 3-color gradual changes	Brightness, speed adjustable
5	Full color smooth	All 7-color gradual changes	Brightness, speed adjustable
6	Red green smooth	RG 2-color gradual changes	Brightness, speed adjustable
7	Red blue smooth	RB 2-color gradual changes	Brightness, speed adjustable
8	Green blue smooth	GB 2-color gradual changes	Brightness, speed adjustable
9	Whites mooth	White gradual bright & fade	Brightness, speed adjustable
10	Cycle mode	All changing modes overlap cycle	Brightness, speed adjustable