Using the 3 Channel LED Dimmer

NOTE: The LED Dimmer module ONLY works with Series 4 JNIORs.

INTEG Process Group, Inc.
2919 East Hardies Rd, First Floor
Gibsonia, PA 15044

PH (724) 933 - 9350
FAX (724) 443 - 3553

www.integpg.com
support@integpg.com
sales@integpg.com

© 2020 INTEG Process Group, Inc.
All Rights Reserved

Last updated on: December 9, 2025

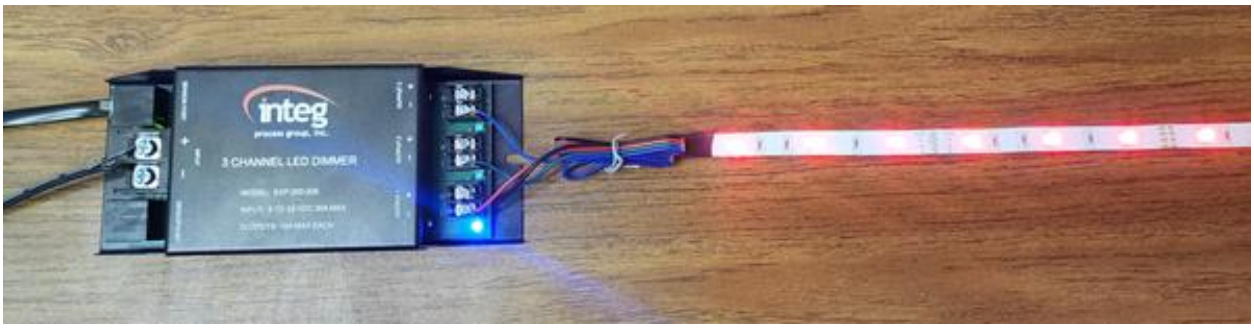
Wiring the LED Dimmer Module

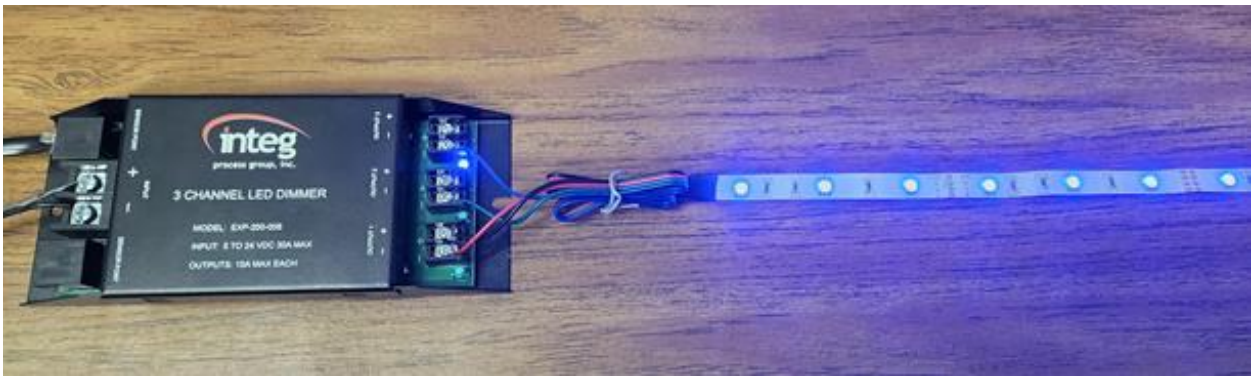
The first thing you need to do to connect the dimmer to the JNIOR is by plugging the sensor cable that comes packaged with the dimmer into both the JNIOR's and the dimmer's sensor port. The dimmer has two sensor ports available, so other expansion modules can daisy chain to it.

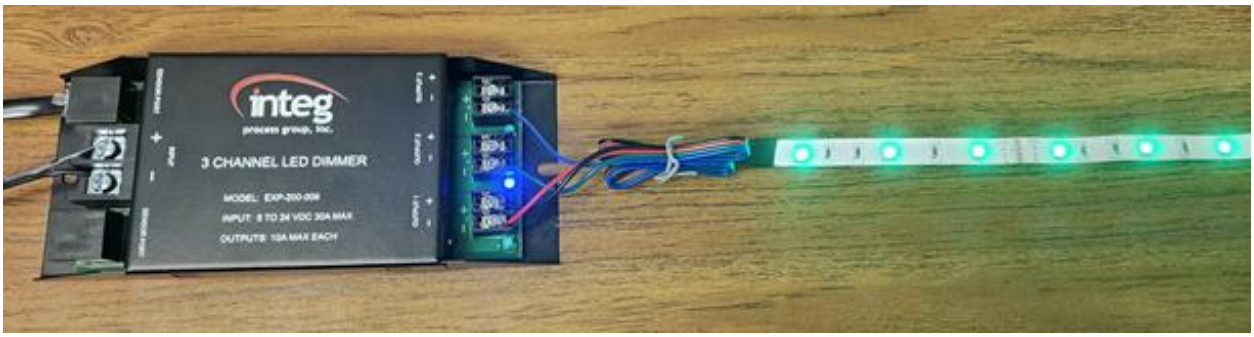
Once the dimmer is connected on the sensor port, a green LED next to it will light up. Next, the dimmer will need external power to light the LEDs. A 5 – 24 volt DC power supply must be connected to the dimmer module on the + - INPUT terminals to power the LED strip lights, which are located between the sensor ports. The voltage you apply should match the voltage required by your LED strip lights.

You can control up to 3 different white LED strip lights or 1 set of color (RGB) LED strip lights per LED Dimmer module. Each channel can handle up to 10 amps, handling up to 30 amps total. Each channel uses Pulse Width Modulated (PWM) control to vary the LED strip lighting intensity between 0 and 100%. The voltage is controlled on the **negative side** to conform with most standard LED strip lights.

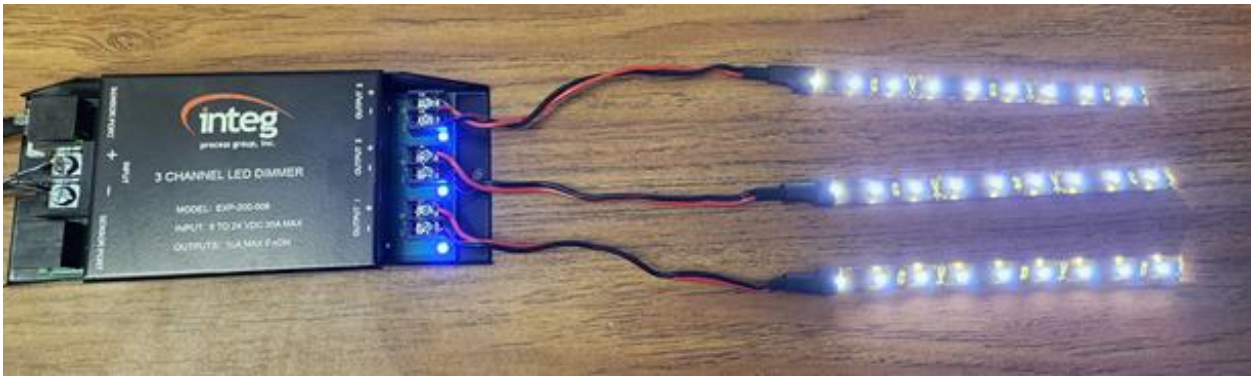
NOTE: For white LED strips, connect the + and – wires to the + and – OUTPUT terminals for one of the LED Dimmer channels. For colored LED strips, connect the Red, Green and Blue wires to the – OUTPUT terminals for each of the three LED Dimmer channels. The common wire (fourth wire) coming from the colored LED strip is connected to the + OUTPUT on only one of the LED Dimmer Channels. You do not need to jumper all three of the + OUTPUT connections on the LED Dimmer channels.







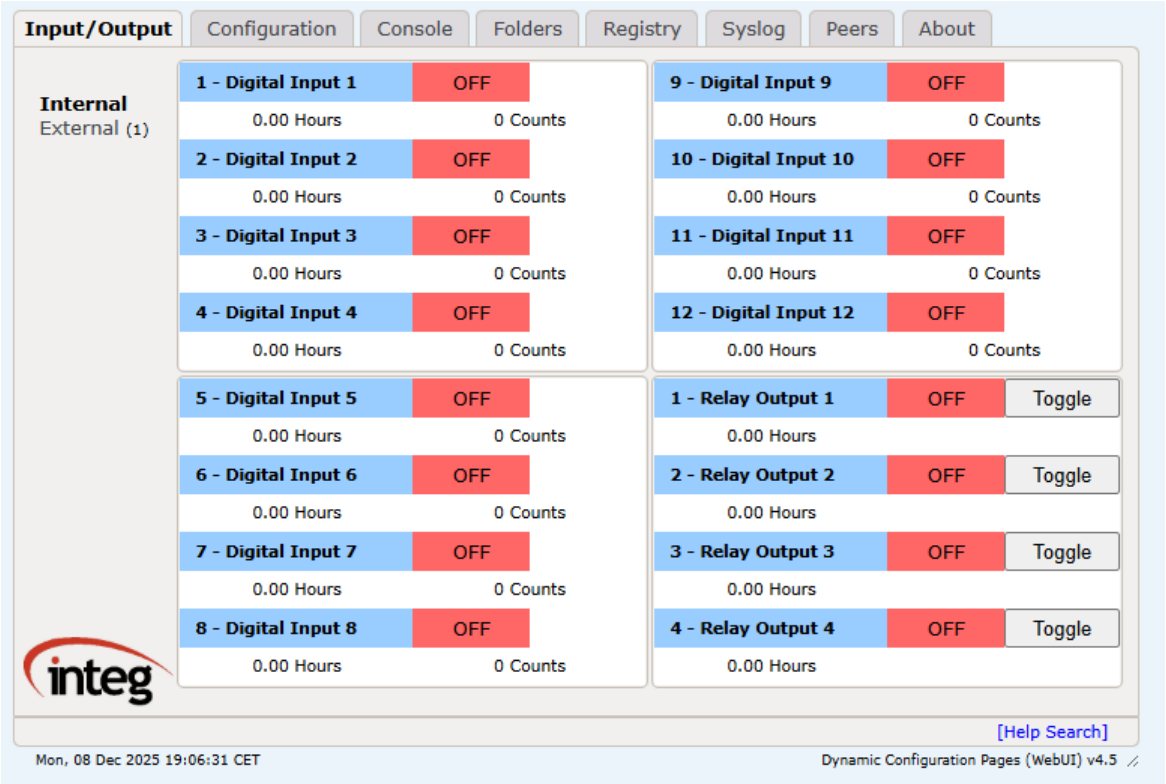
These pictures are from a colored LED Strip. Changing the value of each output affects its color. As previously described, the negatives are wired to the LED strip, but only the first output on the dimmer has its + wired.



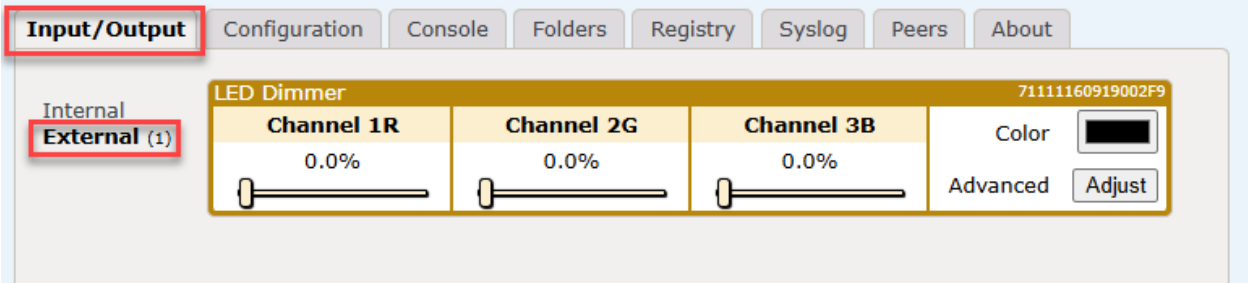
Alternatively, when wiring white LED strips, you can wire up each output channel on the dimmer separately.

Controlling the LED Dimmer Module

You can manually set the desired output for each channel of the LED Dimmer module using the JNIOR Configuration web page. This web page is launched from the JNIOR Support Tool – Beacon tab or by typing the JNIOR IP address into a web browser.



After the web page is loaded, go to the I/O Tab and then the External section. Up to four LED modules can be displayed as shown below. You can control all three channels for one module by moving the slider for each channel.



Alternatively, there are add-on application that can interact with the dimmer as well. For more information on that, such as the **Analog Presets** and **Tasker** applications. For more information on using those, check out their manuals on our website.