GMLighting

"Lighting Enhanced by Design"

LED CONTROLLER

120V VDC

INSTALLATION GUIDE

GENERAL

This LED controller connects with multi color LED strips and is controlled by Apps via Wi-Fi. It must be installed in accordance with Article 450 of the National Electric code (N.E.C.) when used Indoors or Outdoors. The controller must be installed in a well-ventilated area free from explosive gases and vapors. Proper operation requires the free flow of air. Only a qualified electrician should install this hardwired LED controller.

PRECAUTIONS BEFORE INSTALLING

Check the label and ensure the LED controller has the proper input voltage, output voltage and wattage for the job. Check the wire color to ensure they match the wiring diagram on this instruction sheet.

MOUNTING

Select a suitable location capable of supporting the weight of the LED controller.

INPUT CONNECTIONS/GROUNDING

With power turned off, connect the white, black, green wire of LED controller to Neutral, Live and grounding wires from 120VAC power supply respectively. The LED controller MUST be grounded in accordance with the N.E.C.

OUTPUT CONNECTIONS

1. Prepare stripped wires of LED strip with requirement below:
   - Stripping length for wire: 1/4"
   - Stripping length for cable jacket: 3/4"
   - Wire gauge range: #14 ~ #18 AWG
   - Wire must be rated for 90°C or above.

2. The output cord and wires from LED controller is pre-stripped as above. Feed each wire into each terminal of waterproof connector and screw tightly.

QUICK SPECS

Input Voltage	120VAC / 5.2A
Output Voltage	120VDC
Maximum Load	Single color LED strip: 260W / RGB LED strip: 620W
Operating Temp	-22° ~ 131°F (-30° ~ 55°C)
Environment	Wet Location / Outdoor

DO NOT INSTALL IN AN ENVIRONMENT THAT IS OUTSIDE OF THE PRODUCTS LISTED AMBIENT TEMPERATURE.

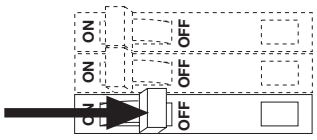
INPUT VOLTAGE NOTE!

The input voltage: 120VAC
ENSURE to power the controller with the correct voltage!

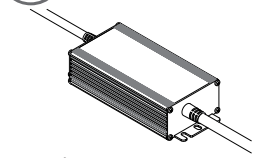
INSTALLATION

1 TURNING OFF POWER

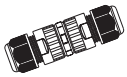
WARNING: Electric Shock Hazard. May result in serious injury or death.
Turn power OFF at circuit breaker prior to installation.



2 INSTALL COMPONENTS



1) LED Controller

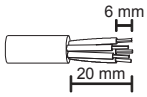


2) Waterproof Connector

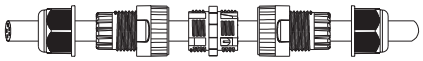
3) LED Strip

3 WATERPROOF CONNECTOR ASSEMBLY

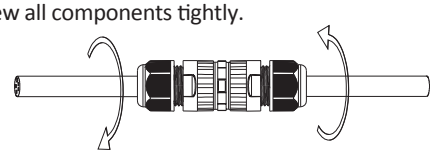
1) Prepare stripped wires as below



2) Disassemble the connector, feed cable in each component in below order, screw each wire on appropriate terminal, and ensure same LED strip color wiring with corresponding polarity.

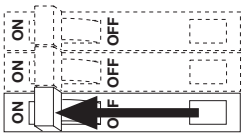


3) Screw all components tightly.



4 TURN POWER ON AT CIRCUIT BREAKER

Install Additional Components, Verify Connections and turn main power ON at breaker.

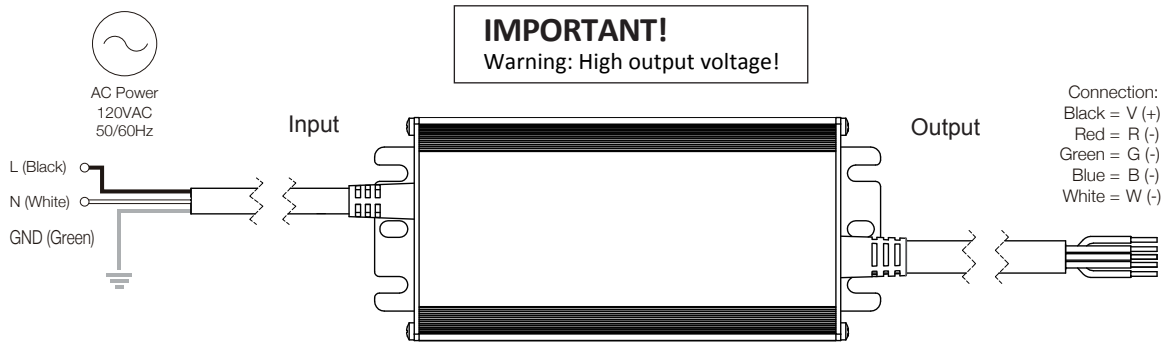


SYSTEM WORKING IMPROPERLY?

Turn power OFF at circuit breaker and verify all connections.
Review WIRING and TROUBLESHOOTING

WIRING DIAGRAMS

The following diagrams are provided as example system designs. Install in accordance with national and local electrical code regulations.

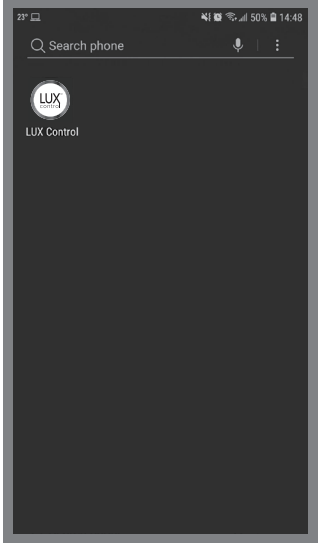


For single white LED strip, max. current: 2.17A, max. load power: 260W
For RGB LED strip, total max. current: 5.17A, total max. load power: 620W

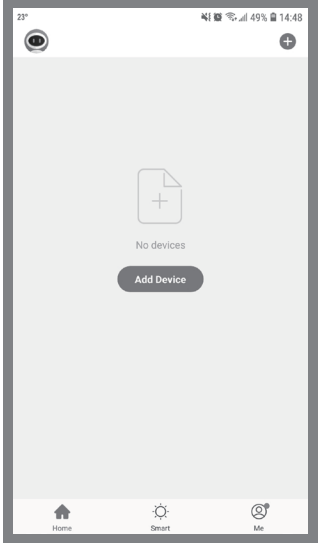
See fixture specifications for maximum series run limits.

PAIRING

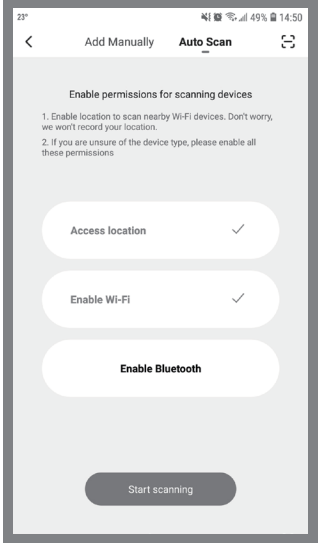
1. Download and install the App LUX Control



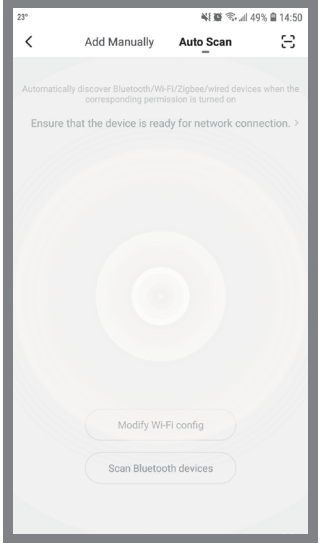
2. Open the App and press "Add Device"



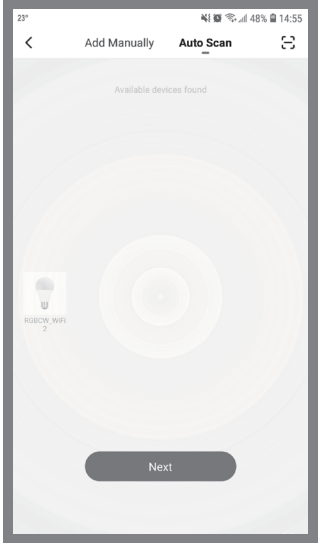
3. Press "Auto Scan" on top to start pairing



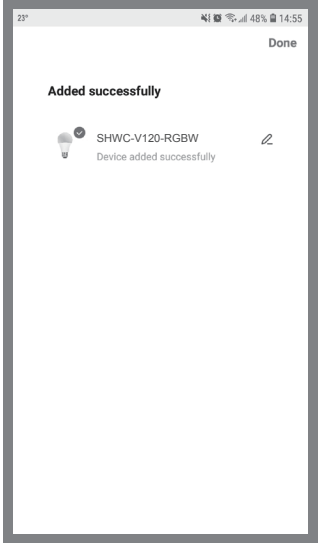
4. During Auto Scan, cycle LED controller On/Off 3 times, LED controller will enter pairing mode



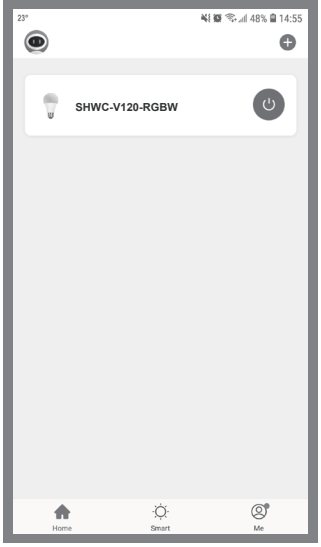
5. Found LED controller, press "Next"



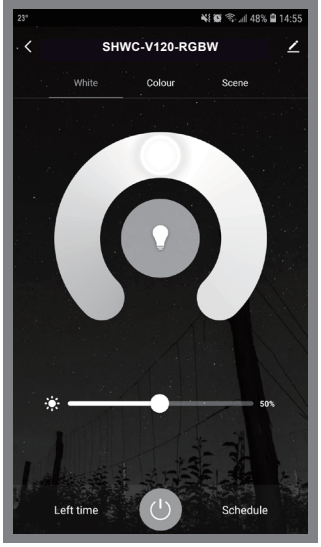
6. LED controller added, press "Done" on top



7. Press the paired LED controller



8. Ready to configure and use



TROUBLESHOOTING

Prior to troubleshooting, ensure all items are a compatible system and main power is turned ON.

Cannot detect/configure the LED controller:	• Ensure the mobile phone or tablet and LED controller are both in the same 2.4GHz Wi-Fi network.
Fixture does not illuminate:	• See 'Wiring Diagram' and installation guides of all components. • Ensure the system is wired correctly. • LED strip input voltage is matched.
Fixture color is not correct:	• Ensure LED strip connection is matched according to wiring diagram.
Installation Trips Main Breaker	• Check wiring for short circuit. If breaker continues to trip there may be a short in the controller. Call customer support for a replacement. • Check AFCI for faults. • Check for neutral or ground faults.

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