

NAVI DIMMER + DRIVER



AMERICAN LIGHTING
BRIGHT IDEAS • INNOVATIVE SOLUTIONS

INSTALLATION INSTRUCTIONS

NAVI-CCT-96-24



⚠ WARNING

These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes, and/or the current National Electric Code (NEC).

⚠ WARNING

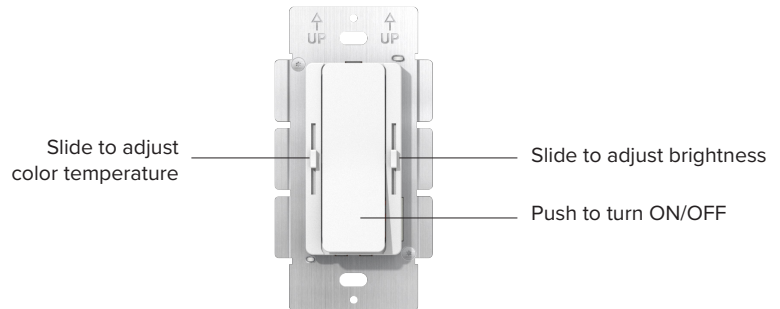
Do not exceed maximum recommended loads!

⚠ WARNING: RISK OF ELECTRIC SHOCK

Electricity can cause personal injury and property damage if handled improperly. If you are not sure about any part of these instructions, please seek professional assistance from a qualified electrician. Ensure all work meets applicable local and national codes.

SAFETY INFORMATION

- Unlike traditional dimming controls, NAVI requires unique wiring steps. Read all installation instructions before beginning; if not qualified, do not attempt installation. Contact a qualified electrician.
- Install in accordance with national and local electrical code regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- NEC Code 725.136: Class 1 and Class 2 circuits in same enclosure must be separated by a barrier unless Class 2 circuit conductors are installed in accordance with 725.41 Class 1 Circuits.
- Only install compatible 24 V Constant Voltage DC fixtures or warranty will be void.
- Do not modify product beyond instructions or warranty will be void.

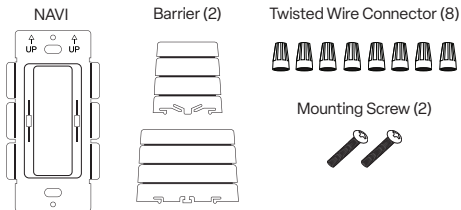


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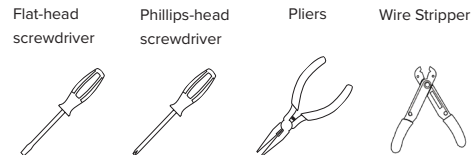
96W

24VDC

CONTENTS:



CONSIDERATIONS:



INSTALLATION:

Disconnect power from source prior to attempting installation.
Make all connections and mount in place prior to providing power to system. This product is designed to be installed in a single gang junction box.

1. Turn power off at circuit breaker. See Figure 1.
2. Determine location to install components. See Figure 2.
3. Remove existing switch (if necessary). See Figure 3.
 - a. Remove trim plate and switch mounting screws.
 - b. Pull switch from wall.
 - c. Identify wires connected to switch and mark wires if desired.
 - d. Disconnect wires from switch.
4. Remove fins if ganging multiple dimmers in same wall box. Unlike standard high voltage AC controls, removing NAVI fins does not reduce the dimmer's maximum wattage rating. See Figure 4.

Continued on next page...

FIGURE 1

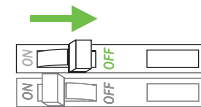


FIGURE 2

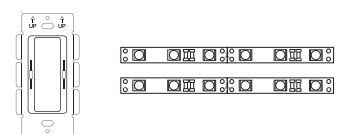


FIGURE 3

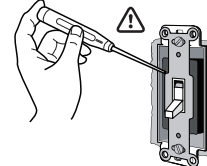
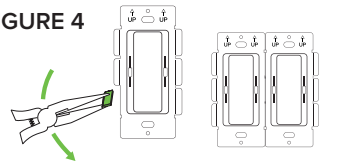


FIGURE 4



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INSTALLATION CONTINUED:

6. Attach voltage partition (barrier). See Figure 6.
7. Wire dimmer. See Figure 7.
 - a. Strip wires on dimmer.
 - b. Wire dimmer. Ensure main power is OFF.
8. Mount dimmer to wallbox and attach trim plate. See Figure 8.
9. Turn power on at the circuit breaker. See Figure 9.

FIGURE 6

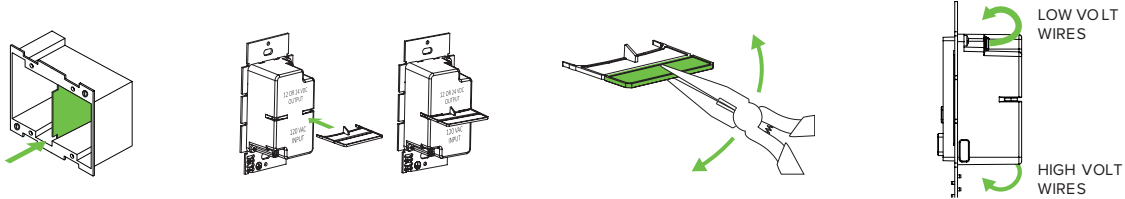
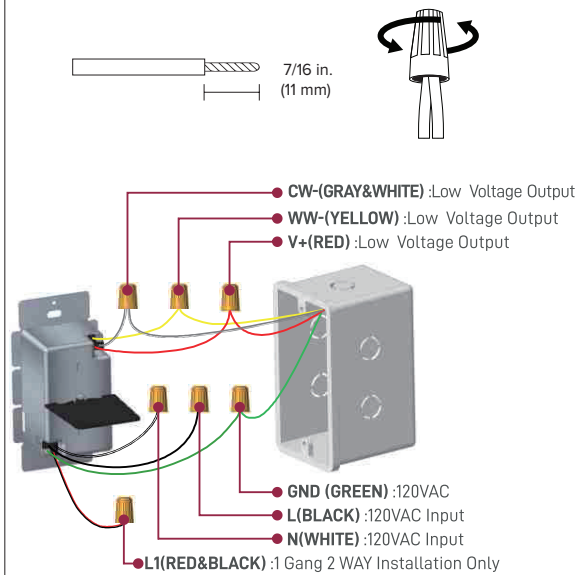
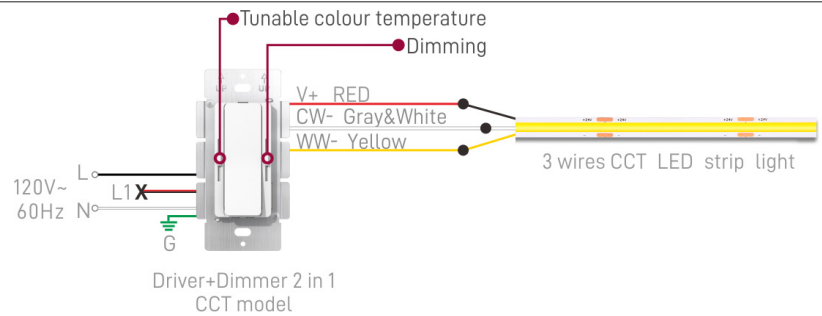


FIGURE 7



Dimming



3-Way Dimming

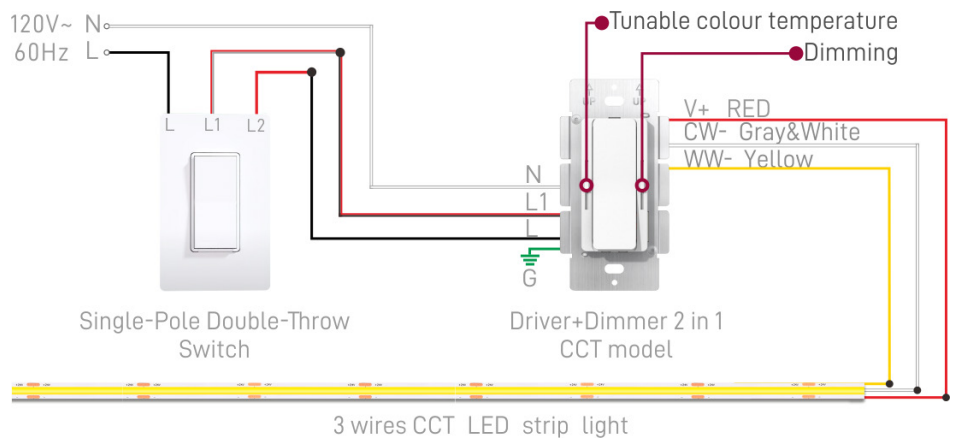


FIGURE 8

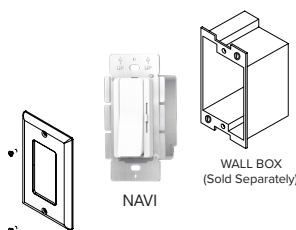
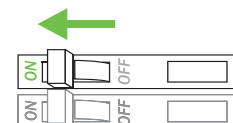


FIGURE 9



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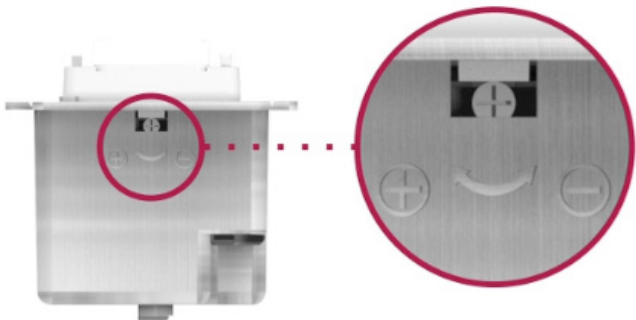


TROUBLESHOOTING

Symptom	Common Cause
Fixture does not illuminate	• Incorrect wiring. Polarity of Low Voltage V+ and V- are reversed. • Circuit breaker is OFF or tripped • Incorrect voltage pairing of dimmer and fixture.
• Different fixtures do not dim in sync. • Fixture turns off at low dim level. • Fixture strobos/flickers at low dim level. • Dimmer buzzes excessively	• Only install 24VDC tape lights on the compatibility list.
Fixture heats up excessively	• Incorrect voltage pairing of dimmer and fixture. Do not attach a 12V fixture to a 24V dimmer. • Fixture is not compatible.

VOLTAGE ADJUSTMENT

NAVI can provide a 1V boost if the fixture is receiving noticeable light degradation.
Use a small screwdriver to adjust output voltage by turning adjustment dial.



FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.