PURE EDGE LIGHTING

1718 W. Fullerton Chicago, IL 60614
Ph: 773.770.1195 • Fax: 773.935.5613
www.PureEdgeLighting.com • info@PureEdgeLighting.com

Installation Instructions for **Sun 3 RGB LED**

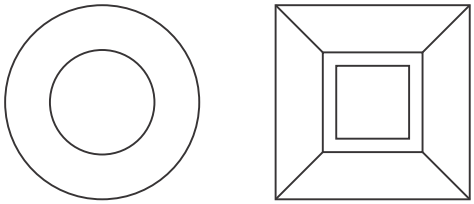
SUN3-__-__-RGB-__

Intertek

IMPORTANT INFORMATION

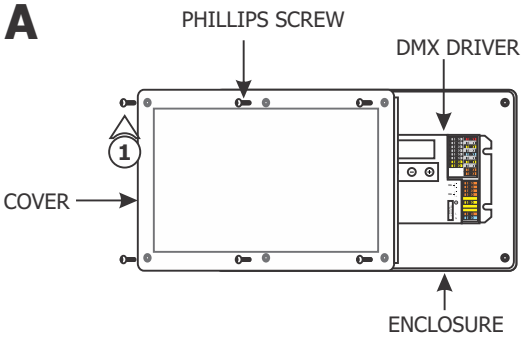
- **WARNING:** Fixture must be installed in accordance with National and Local Electrical codes.
- Load cannot exceed the total wattage of the LED power supply rating.
- This fixture must be installed by a licensed electrician.
- For outdoor installation, use outdoor rated electrical boxes (minimum 1.5" deep), conduit feedings, and wire nuts. For indoor installation use octagon electrical boxes.
- This instruction shows a typical installation.
- For optical controls such as 20° beam tilt, micro louver or glass lens use SUN3-LL accessory (sold separately).

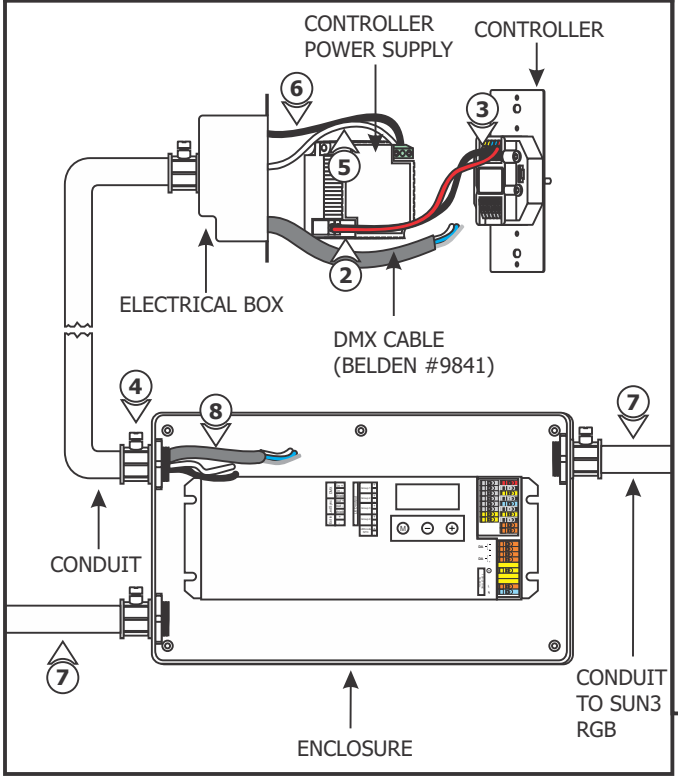
SAVE THESE INSTRUCTIONS!



Section One: Install the Constant Current DMX Driver

A





1: Loosen the six Phillips screws on front of the DMX driver to remove the cover.

NOTE: Use a deep single or double gang box to fit the CDP, CTP or CDMX controller and controller power adapter. Refer to the instructions provided with the controller.

NOTE: CDP Controller shown for demonstration purposes. Refer to pages 7 through 9 to properly operate the desired controller.

NOTE: Refer to the "Programming Guide for DMX Driver" on Page 6 to properly program the DMX driver.

2: Connect one end of a red wire to the "VDC+" terminal of the controller and the other end of the red wire to the "+24VDC" terminal of the power supply.

3: Connect one end of a black wire to the "Ground" terminal of the controller and the other end to the "-24VDC" terminal of the power supply.

4: Install a conduit from the controller electrical box to the DMX driver enclosure and run the black and white line voltage wires coming from the controller power supply to the DMX driver enclosure.

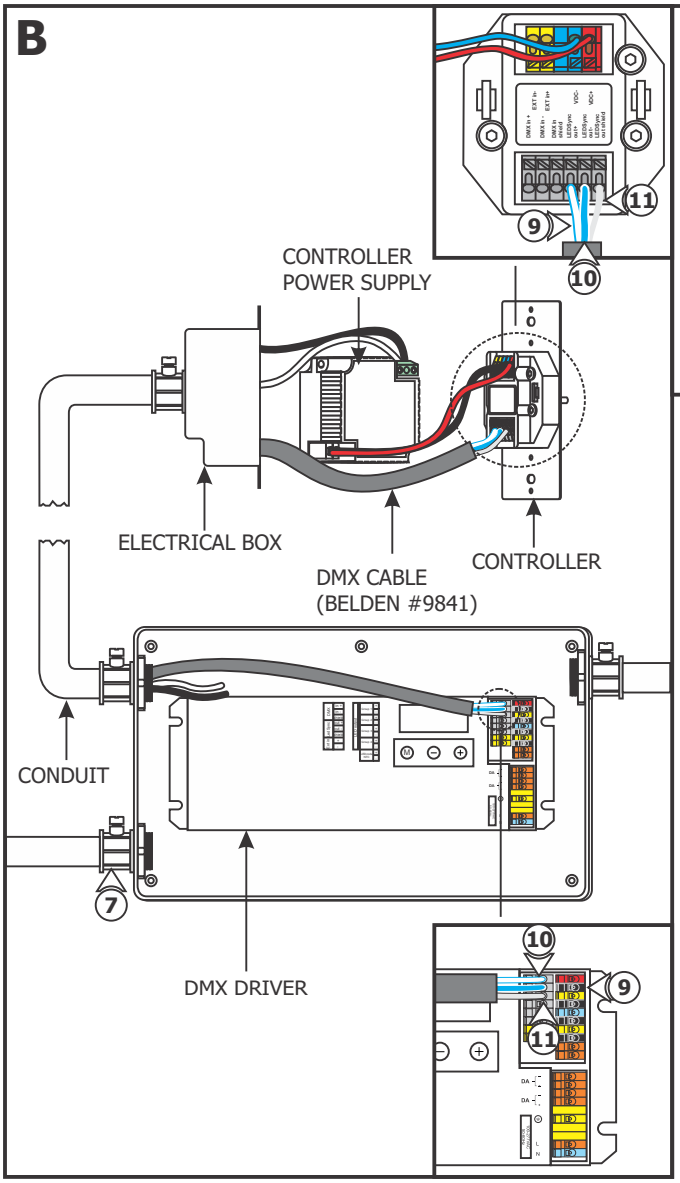
5: Connect the white wire to "N" terminal of the controller power supply.

6: Connect the black wire to "L" terminal of the controller power supply.

7: Install conduits from the controller, to the main panel (line voltage), and to the SUN3 housing(s).

8: Run proper DMX cable **(Belden #9841 recommended)** with three data wires from controller to the DMX Driver enclosure.

B



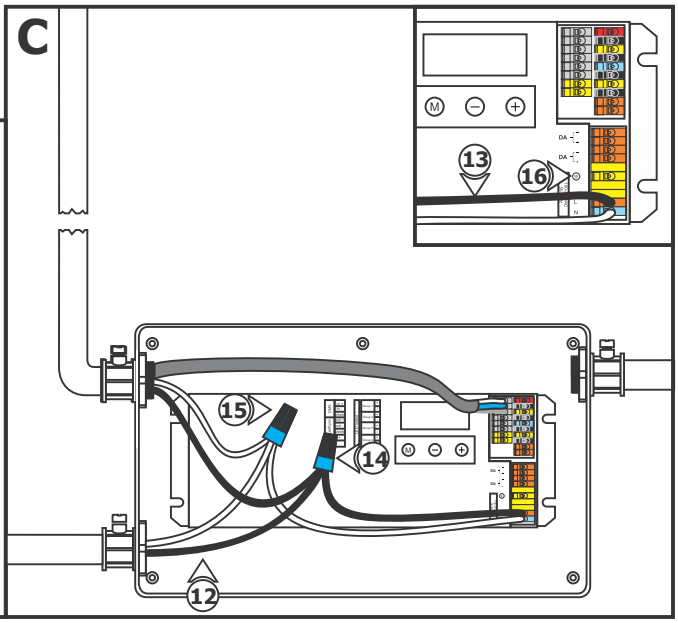
9: Connect one end of a data wire (blue with white stripes wire) to controller "LEDSYNC OUT –" terminal. Connect the other end into the DMX driver "DMX in – " terminal.

10: Connect one end of a data wire (white with blue stripes wire) to controller "LEDSYNC OUT +" terminal. Connect the other end into the DMX driver "DMX in +" terminal.

11: Connect one end of a data wire (bare shield wire) to controller "LEDSYNC SHIELD" terminal. Connect the other end into the DMX driver "DMX in shield" terminal.

NOTE: Do not use the DMX terminals on the controller.

C



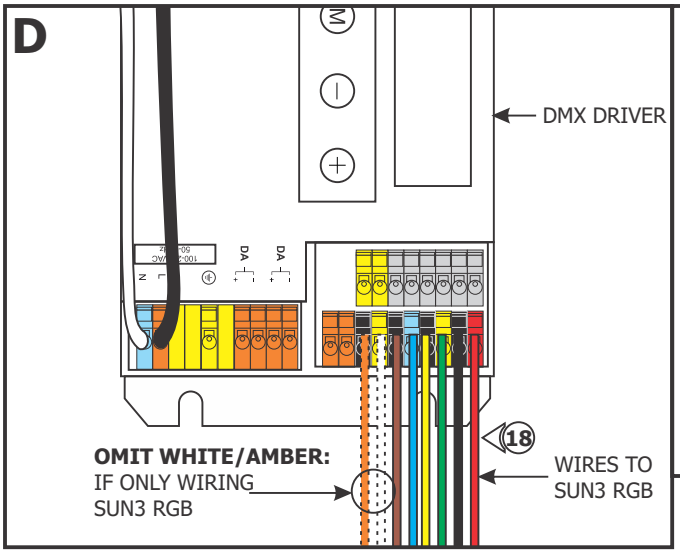
12: Run the line voltage power wires into the DMX driver enclosure.

13: Connect 6" of #18AWG black & white pigtail wires to the line & neutral DMX driver terminals.

14: Connect the black DMX driver pigtail wire to the black wire coming from the controller and to the hot wire with a wire nut.

15: Connect the white DMX driver pigtail wire to the white wire coming from the controller and to the neutral wire with a wire nut.

16: Make sure the DMX driver is grounded in accordance with local electrical codes, using the earth ground terminal on the DMX driver.

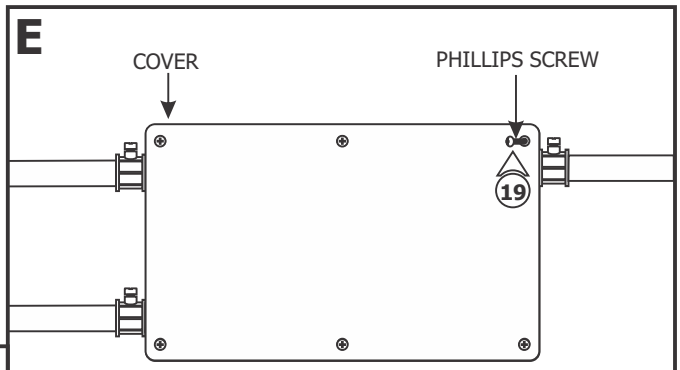


NOTE: The DMX Driver terminals accept maximum #18AWG wire. Use 6" pigtails of each color connecting to the DMX drier before choosing the proper gage wires connecting the driver to each fixture.

17: Run the proper pig tail wire colors (red, black, green, yellow, blue, brown, white, & orange) into the appropriate DMX terminals.

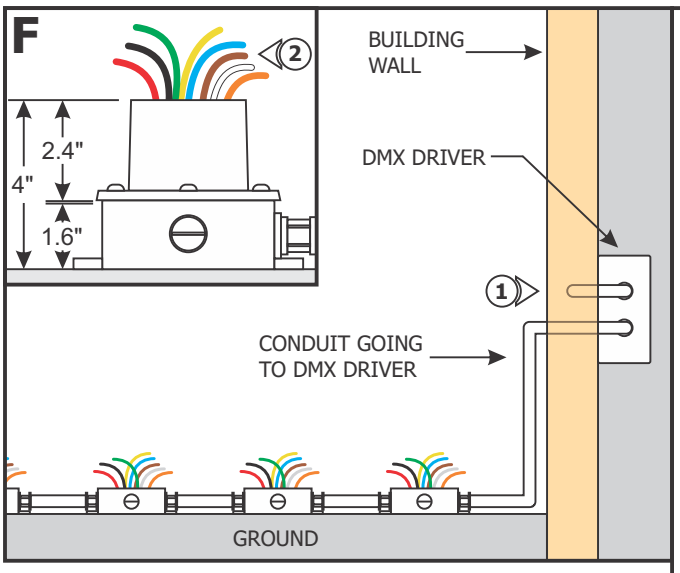
18: Connect the proper gage color wires to each pig tailed wire going to the Sun3 RGB fixture. Refer to the wiring diagram on Page 10 for reference.

NOTE: Do not exceed the maximum wattage and distance of the DMX driver. Max 10 Sun3 RGB fixtures can be connected to the DMX driver.



19: Replace the DMX driver cover and secure it by tightening the six Phillips screws.

Section Two: Outdoor Installation



NOTE: If installing indoors, omit Sections Two and Three. Refer to Sections Four and Five to complete the installation.

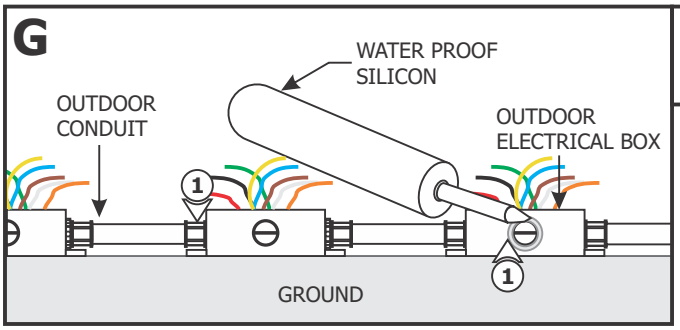
1: Install conduit(s) from the DMX driver to all in ground fixture outdoor electrical boxes.

2: Run the proper wire size and colors (red, black, green, yellow, blue, brown, white, & orange) wires to outdoor electrical boxes. Refer to wiring diagram on page 10.

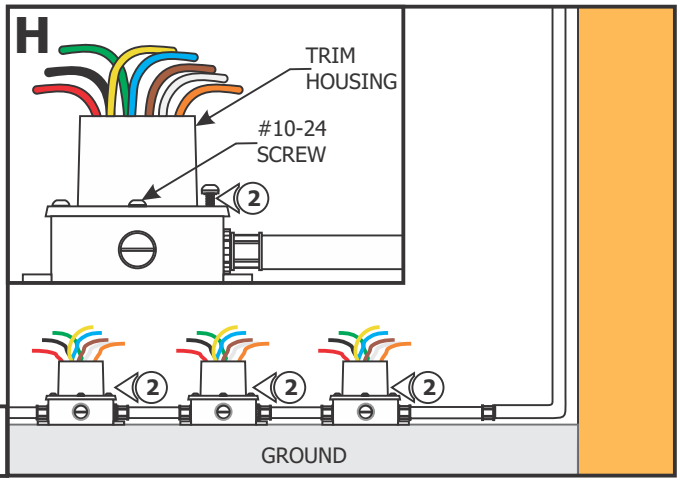
3: Make sure the DMX driver power is off.

NOTE: Each Sun3 RGB should be connected to the next Sun3 RGB in series. The positive wires are the red, green, blue & white and the negative wires are black for red, yellow for green, brown for blue & orange for white. The positive wires of the closest Sun3 RGB to the DMX driver should be (red, green, blue, & white) connected to the proper DMX driver terminals. The negative wires (black, yellow, brown & oranges) of the last Sun3 RGB should be connected to the negative terminals (black color) of the DMX driver. Each Sun3 RGB should be connected together in a series with black wires of the first Sun3 RGB connecting to the red wire of the next Sun3 RGB. The yellow wire of the first one to green wire of the next one, the white wire of the first one to the blue wire of the next one and similarly the orange wire of the first one to white wire of the next one. Refer to the wiring diagram on Page 10.

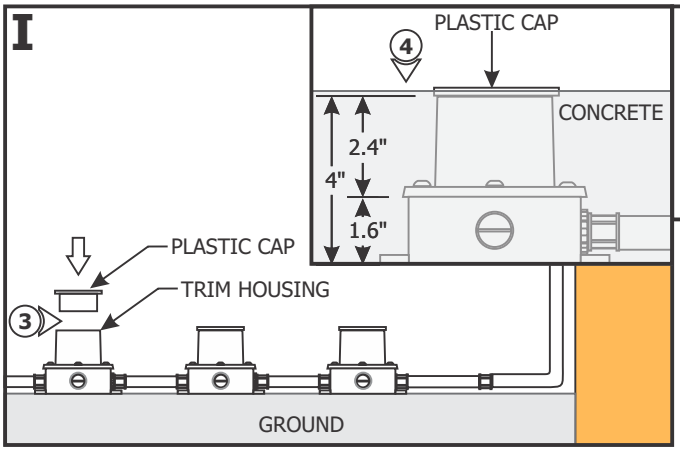
Section Three: Outdoor Trim Housing Installation



1: Caulk all areas of the outdoor electrical boxes and the conduit connectors with a water proof silicon to prevent water entering in the electrical boxes.



2: Align and secure each trim housing to the electrical box holes with the four #10-24 water sealant screws provided.

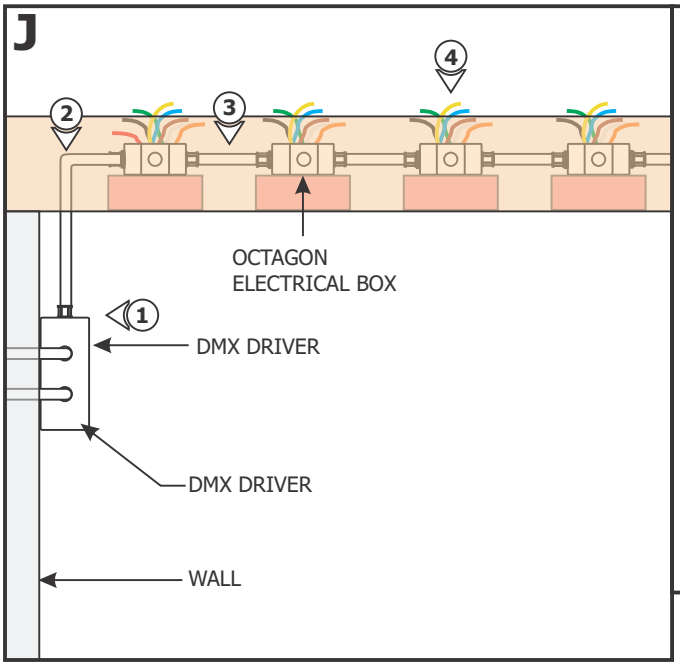


3: Insert the provided plastic caps to all trim housings to prevent particles and concrete debris from entering inside the box.

4: Poor the concrete up to plastic cap and wait to dry.

5: Refer to Section Six for wiring the trims.

Section Four: Indoor Installation



NOTE: Use only octagon boxes to install the trim housings indoor.

1: Install a DMX driver onto the wall or post next to the panel to branch the power to all octagon electrical boxes.

2: Install conduit and run 120 volt power wires from the panel to the branching electrical box.

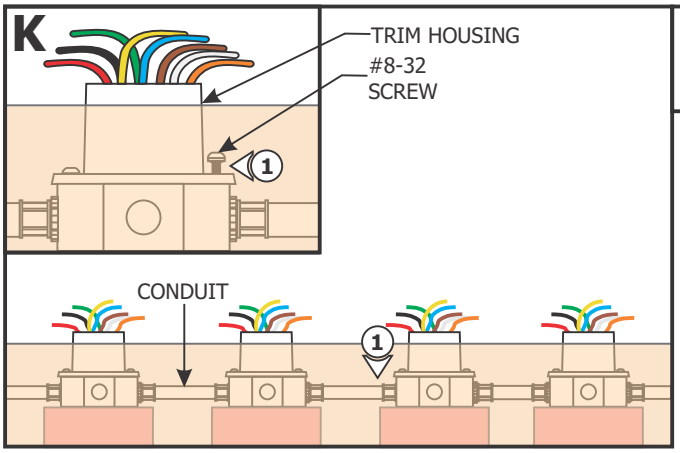
NOTE: Subfloor, floor, and Sun3 trim housings (2.4") heights must be considered when positioning the octagon boxes between the joists.

3: Install conduit(s) from the branching DMX driver to all octagon fixture electrical boxes.

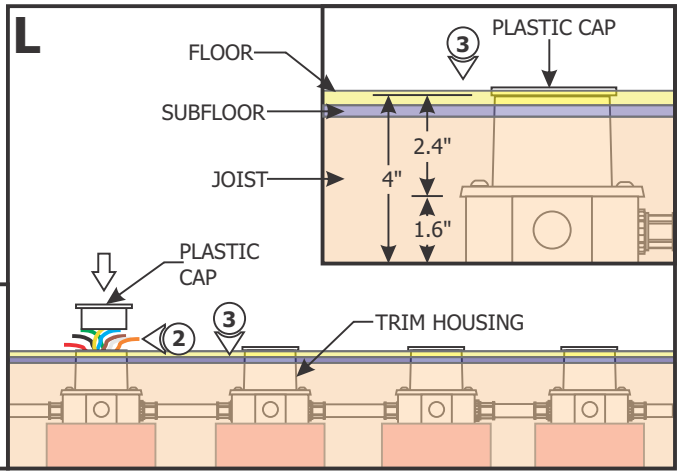
4: Run proper wire sizes from branching DMX driver to all fixture electrical boxes.

5: Follow steps in Section One to connect the wires to the power supply.

Section Five: Indoor Trim Housing Installation



1: Align and secure the each trim housing to the octagon electrical box holes with the two #8-32 screws (not provided).

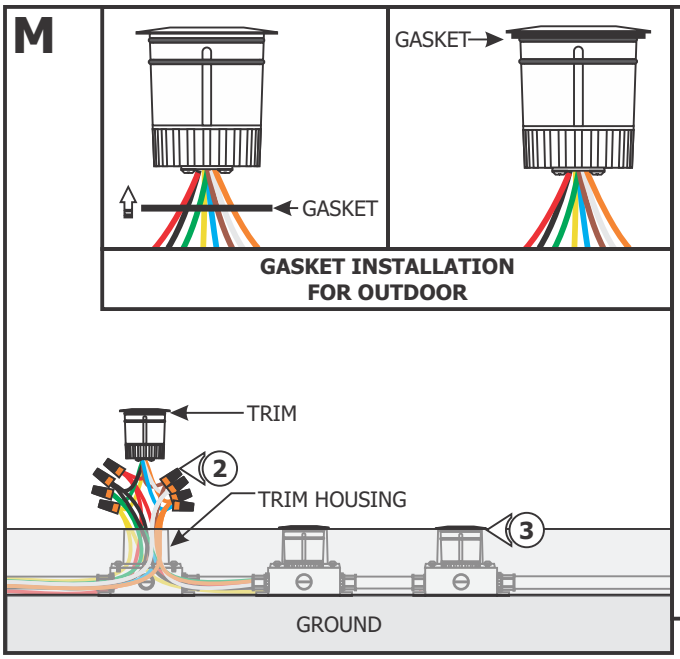


2: Insert the provided plastic caps to all trim housing to prevent dust and debris from entering inside the box.

3: Finish the floor installation up to the plastic cap.

4: Refer to Section Six for wiring the trims.

Section Six: Wiring the Trims



NOTE: If using the SUN3-LL accessory, refer to the instruction provided with the SUN-LL install the beam control accessories in each trim prior to wiring the trims.

NOTE: For outdoor installation, place the water proof gasket (provided) onto the trim to prevent water leaking inside the electrical box. Use water proof outdoor wire nuts for power connection.

1: Remove the plastic caps.

2: Connect each trim wire to one power wire in the electrical box with a wire nut.

3: Place all wire connections inside the electrical box and push the trim completely into the trim housing opening.

4: Repeat steps 2 and 3 for other trims.

NOTE: Each fixture contains an integrated LED lamp. Each Sun3 consumes 10 watts.

Section Seven: Programming Guide for DMX Driver

Pressing M
- Shows the current mode or the next menu item; use the M button to browse menus and settings without making any changes.
- Saves a changed value.
- Turns off the display at the last menu item.

Pressing + or −
- Changes a value (which is only saved when M is pressed).

Accidentally changed a value but haven't confirmed it yet by pressing M? By refraining from pressing the buttons for at least 8 seconds, the display will turn itself off without changing the value.

If you are in a menu and want to change to another menu, refrain from pressing the buttons for at least 8 seconds so the display turns off, and subsequently press the button combination for the menu you want to change to.

1: Set mode of operation: color or show mode for standalone operation, DMX or DALI mode for networked operation:
Press **M** for 5 sec.

2: Set LED output current (if applicable*) and LED group configuration:
Press **M** + **+**
- The value increases by 50mA. Set the output current to **700mA**.
- Set the LED groups to **1-1L RGB**.

- To automatically configure the POWERdrive's LED outputs using LEDcode:
  Get your configuration code from www.ledcode.com
- Enter the configuration code - your LEDcode - in the LEDcode menu:
  Press **M** + **−**

3: Configure or view the operation mode you have set (Color, Show, DMX, DALI):
Press **M**

4: Optional: Do a test run of the connected LEDs:
Press **M** + **−** + **+**

Hard or soft lock the configuration:
Press **M** + **+** for 5 seconds.

Reset for factory defaults:
Press **M** + **−** + **+** for 5 seconds.

For more information or to see the driver's various menus, visit www.eldoled.com.

Section Eight: Operation Guide for CDP Controller

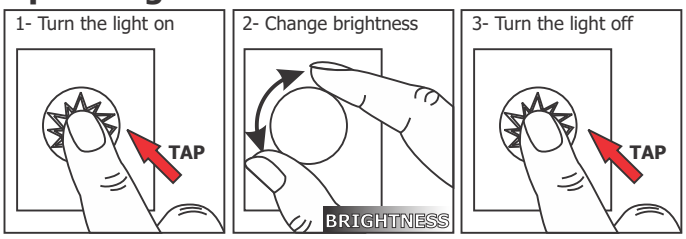
Selecting Modes
Configure your CDP Controller by setting the DIP switches on the front:

COLOR MODE

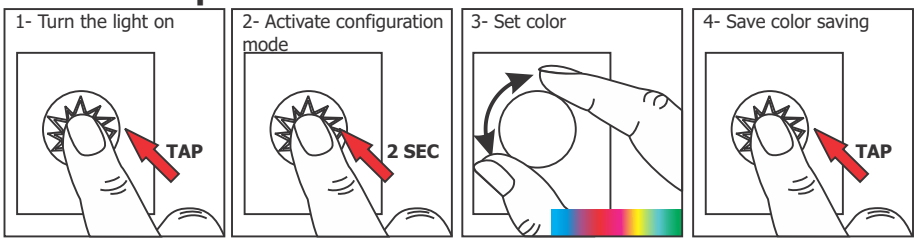
CHASE MODE

NOTE: The DIP switches must remain accessible after installation. When making changes in the DIP switch settings, disconnect and reconnect the power supply to activate new settings.

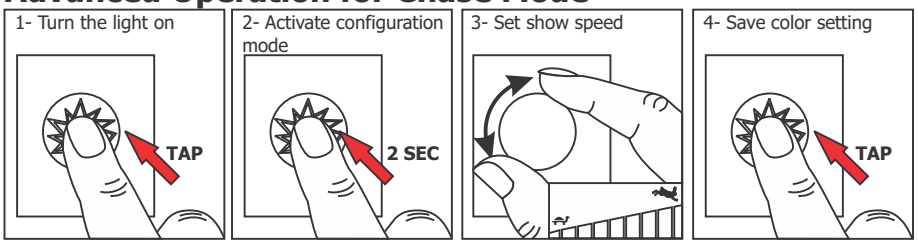
Operating Controller



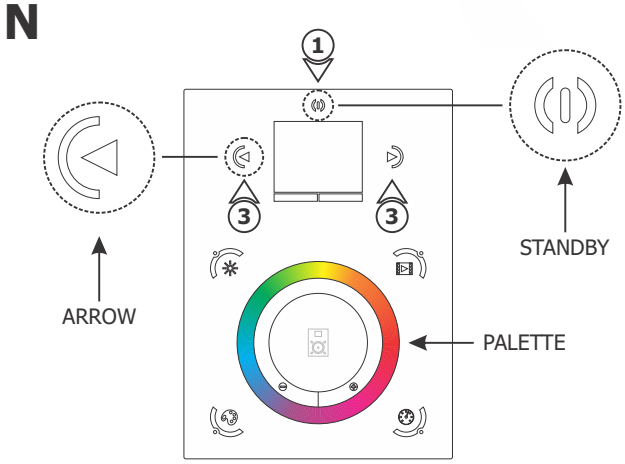
Advanced Operation for Color Mode



Advanced Operation for Chase Mode



Section Nine: Operation Guide for CTP Controller



NOTE: Reference the provided CD or manufacture's instructions for programming the controller or visit https://www.nicolaudie.com/stick-de3.htm

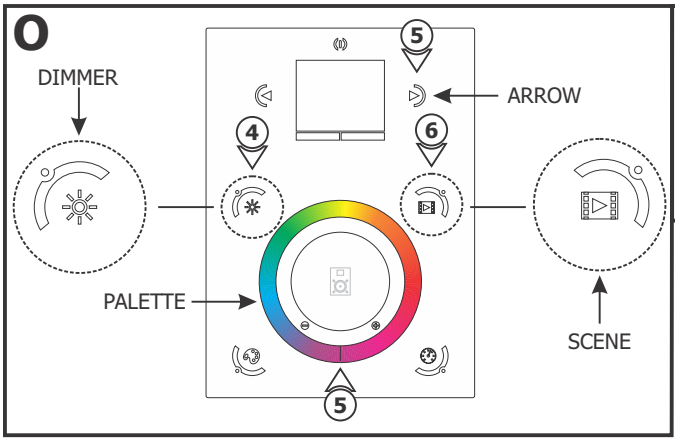
NOTE: The controller is a soft action device, expect two seconds response time.

1: Press the Standby to turn the device on and off.

2: Hold the Standby button for 3 seconds to access the Settings Menu.

3: Use the Arrows or the Palette to scroll through the Settings Menu.

O



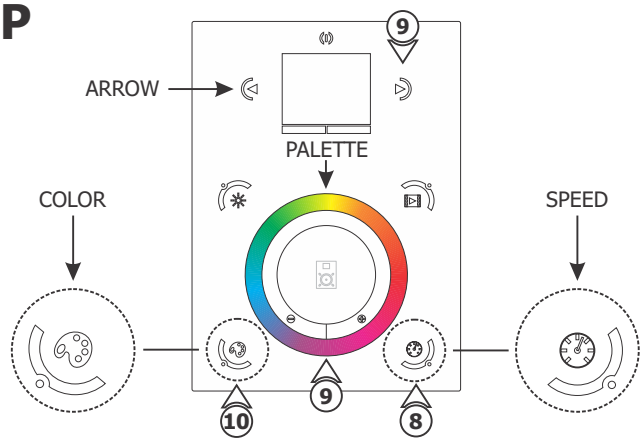
4: Press the Dimmer button to activate the dimming mode.

5: Use the Arrows or Palette to dim up or dim down the scene.

6: Press the Scene button to activate the scene mode.

7: Use the Arrows or Palette to scroll through preset scenes.

P



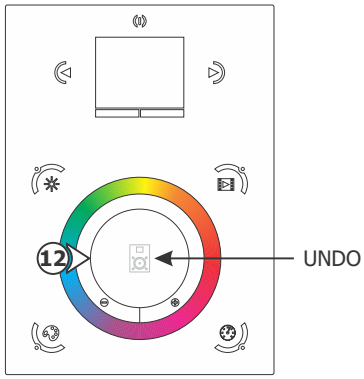
8: Press the Speed button to activate the speed mode.

9: Use the Arrows or Palette to adjust the speed of preset shows.

10: Press the Color button to activate the Color mode.

11: Use the Arrows or Palette to change the color of the scene.

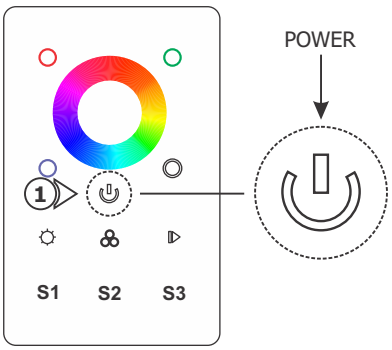
Q



12: Tap the center button to undo the most recent action. Press and hold the center button to reset the scene.

Section Ten: Operation Guide for CDMX1 Controller

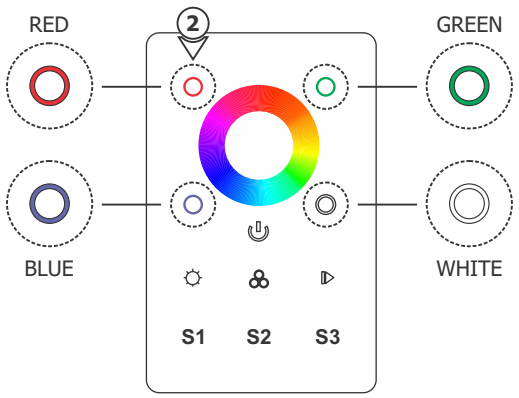
R



NOTE: The controller is a soft action device, expect two seconds response time.

1: Press the Power button to turn the device on and off.

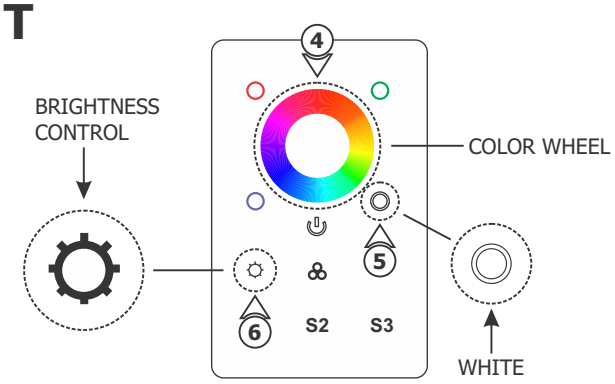
S



2: Press the Red, Green, Blue, or White (this does not apply for RGB) button to turn each color on and off independently or together.

3: To adjust the brightness of each color, press and hold the color button.

T

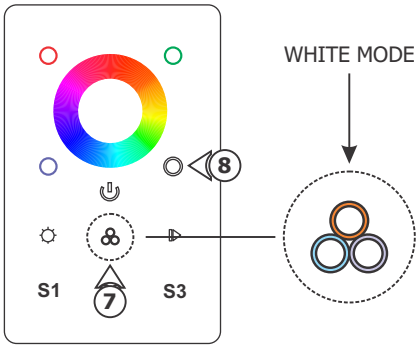


4: Scroll through the color wheel to set a specific color.

5: Add white color to the color mix if necessary (only RGBW).

6: Press and hold the Brightness Control button to dim down or dim up the color mix.

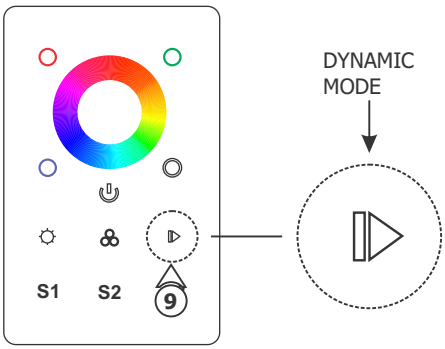
U



7: For RGB only, choose one of the three settings of warm, neutral and cool white by pressing the white mode button repeatedly.

8: Choose additional white by pressing the white button (only RGBW).

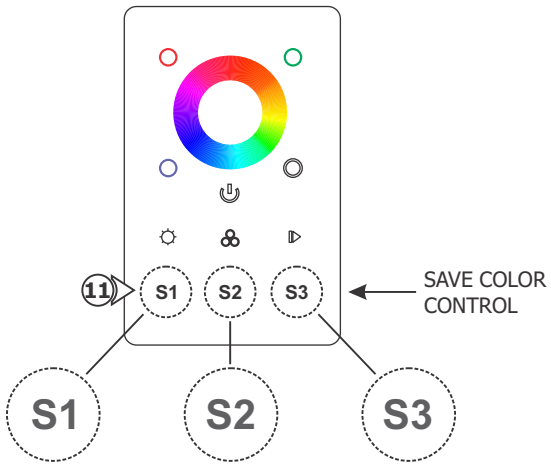
V



9: Press the Dynamic Mode button for a preset show mode. Once the mode is desired then press again to hold that mode.

10: Press and hold the Dynamic Mode button to adjust the speed of the colors changing.

W



11: Press and hold S1, S2, or S3 for over two seconds to save settings.

12: Tap once to activate the saved setting.

Wiring Diagram