SAFETY & WARNINGS

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS
2. Install in accordance with national and local electrical code regulations.
3. This product is intended to be installed and serviced by a qualified, licensed electrician.
4. Do not use if there is any damage to fixture or wiring. Inspect periodically.
5. Do not submerge fixture in liquids or use the product in the vicinity of standing water or other liquids.
6. Do not install near areas with exposure to salt water or chlorinated water.
7. Do not install in direct sunlight or damage to the LED phosphor will occur.
8. Do not attempt to fix this product in the field.
9. Failure to follow safety warnings and installation instructions will void the warranty for this product.
10. Light Guide Panels are not load bearing. Do not use to hold objects, as a shelf, or as a support.

QUICK SPECS / MODELS

<table>
<thead>
<tr>
<th>SKU</th>
<th>DI-LGP-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>24VDC or 12VDC</td>
</tr>
<tr>
<td>Ambient Temp †</td>
<td>-4° - 140°F (-20° - 60°C)</td>
</tr>
</tbody>
</table>

† Do not install product in environment outside listed temperature.

*NOT FOR USE IN SUBMERSIBLE APPLICATIONS, OR WITHIN 5 FEET OF A SWIMMING POOL.

Note: Handle panels larger than 24 x 36 in. vertically or frame may bend. Prior to installation, ensure all components create a compatible system. Configure and pre-test your LED system prior to permanent installation to ensure all components are operating correctly.
INSTALLATION

1. TURN POWER OFF AT CIRCUIT BREAKER

**SHOCK HAZARD!** May result in serious injury or death.

Turn power OFF at circuit breaker prior to installation.

2. DETERMINE LOCATION TO INSTALL COMPONENTS

Refer to SYSTEM DIAGRAMS

- 1) Compatible Control
- 2) Driver
- 3) Fixture

**WIRE GAUGE & VOLTAGE DROP**

Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.).

REQUIRED TOOLS

1. Phillips-head Screwdriver
2. Wire Stripper
3. (4-8) Mirror Clips and Screws per panel
**INSTALLATION (CONT.)**

3. MOUNT LED LIGHT GUIDE PANEL TO SURFACE

Using mirror clips, (not included) mount panel to surface as you would a mirror.

4. MULTIPLE PANEL MOUNTING

To achieve even light distribution, install a diffuser or place the graphic image a reasonable distance from the panel. Distance will vary as each panel is built to custom specifications.

5. ATTACH DRIVER AND LIGHTING CONTROL.

Verify a compatible driver is installed. Utilize applicable wiring when installing outdoors. (Use of wet location-rated junction box recommended)

6. TURN POWER ON AT CIRCUIT BREAKER

**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Shift in brightness and/or kelvin</th>
<th>• Ensure an appropriate gauge of wire is installed between strip light and LED driver. See VOLTAGE DROP CHARTS.</th>
</tr>
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<tr>
<td>Some LEDs are not functional</td>
<td>• Ensure strip light has not been bent excessively, which could damage circuitry.</td>
</tr>
<tr>
<td>Lights are flickering</td>
<td>• Ensure a compatible driver and/or dimming control is installed. Check for loose connections.</td>
</tr>
<tr>
<td>Lights are turning on/off repeatedly</td>
<td>• Ensure driver is not overloaded. An overloaded driver will trip the internal auto-reset (of driver) repeatedly, turning the system on/off.</td>
</tr>
</tbody>
</table>

**TOOLS & RESOURCES**

LIGHT GUIDE PANEL SPECIFICATION SHEET

For full specifications.
SYSTEM DIAGRAMS

The following diagrams are provided as example system designs. Always review each component installation guide for detailed and up-to-date wiring instructions. Install in accordance with NEC and local regulations.

**ON/OFF System**

- **AC Power 50/60Hz**
- **120VAC On/Off Switch**
- **LED Light Guide Panels‡‡**

**OMNIDRIVE™ Electronic Dimmable Driver System**

- **Compatible Dimming Control or On/Off Switch ^**
- **OMNIDRIVE Dimmable Driver ^^**
- **DC Splitter Plug**

**Magnetic Dimmable Driver System**

- **OMNIDRIVE™ Electronic Dimmable Driver System**
- **Compatible Dimming Control or On/Off Switch ^**
- **OMNIDRIVE Dimmable Driver ^^**
- **120VAC Magnetic Low Voltage Dimmer††**
- **REIGN 12-24V Dimmer****
- **GND (Green)**

**Plug-In Adapter System**

- **Class 2 Low Voltage Plug-In Adapter (Driver)**
- **Inline Accessory§ (Extensions, splitters, controls, etc.)**
- **LED Light Guide Panels**
- **DC Splitter Plug**

**REIGN™ 12-24V Dimmer System**

- **AC Power 50/60Hz**
- **Class 2 Low Voltage Driver*** Installed in Junction Box‡
- **OMNIDRIVE Dimmable Driver System**
- **Compatible Dimming Control or On/Off Switch ^**
- **OMNIDRIVE Dimmable Driver System**
- **Class 2 Low Voltage Driver*** Installed in Junction Box‡
- **REIGN 12-24V Dimmer****
- **GND (Green)**

**Class 2 Low Voltage Plug-In Adapter (Driver)**

- **LED Light Guide Panels″″**
- **Class 2 Low Voltage Plug-In Adapter (Driver)**
- **DC Splitter Plug**
VOLTAGE DROP CHARTS
For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

Example: 24V Voltage Drop & Wire Length Distance Chart

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>10 W .42 A</th>
<th>20 W .83 A</th>
<th>30 W 1.3 A</th>
<th>40 W 1.7 A</th>
<th>50 W 2.1 A</th>
<th>60 W 2.5 A</th>
<th>70 W 2.9 A</th>
<th>80 W 3.3 A</th>
<th>100 W 4.2 A</th>
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<tr>
<td>22 AWG</td>
<td>53 ft.</td>
<td>27 ft.</td>
<td>17 ft.</td>
<td>13 ft.</td>
<td>11 ft.</td>
<td>9 ft.</td>
<td>8 ft.</td>
<td>7 ft.</td>
<td>6 ft.</td>
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<tr>
<td>18 AWG</td>
<td>134 ft.</td>
<td>68 ft.</td>
<td>45 ft.</td>
<td>33 ft.</td>
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<td>22 ft.</td>
<td>19 ft.</td>
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<td>109 ft.</td>
<td>72 ft.</td>
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<td>174 ft.</td>
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<td>69 ft.</td>
<td>60 ft.</td>
<td>49 ft.</td>
<td>43 ft.</td>
<td>36 ft.</td>
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<tr>
<td>12 AWG</td>
<td>784 ft.</td>
<td>397 ft.</td>
<td>263 ft.</td>
<td>197 ft.</td>
<td>158 ft.</td>
<td>131 ft.</td>
<td>112 ft.</td>
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Determine load size. Let’s assume load is 55 W. Round up to nearest load.

Determine distance from driver to load. Let’s assume the distance is 90 ft.

It is recommended to install 12 AWG to eliminate excess voltage drop.

24V Voltage Drop & Wire Length Distance Chart

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