**WARNING**

DO NOT CONNECT DIRECTLY TO HIGH VOLTAGE POWER!
Read all warnings and installation instructions thoroughly.

**Safety & Warnings**

- Install in accordance with the National Electric Code, and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- DO NOT connect directly to high voltage power. Install with a compatible Class 2 constant voltage LED driver (power supply).
- Only install compatible LED drivers and fixtures. Contact technical support or visit the product page for compatible products.
- This product is rated for indoor installation and is not protected against moisture.
- Proper heat dissipation will prolong the working lifespan of this product. Install in a well-ventilated area free from explosive gases and vapors.
- 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.). Inadequate wire installation could overhead wires, and cause a fire.
- Do not modify or disassemble this product beyond instructions or the warranty will be void.

**Quick Specs**

<table>
<thead>
<tr>
<th>Input Signal</th>
<th>DMX512</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input / Output Voltage</td>
<td>12-24VDC Constant Voltage</td>
</tr>
<tr>
<td>DMX512 Connection Ports</td>
<td>Input: (1x) Male XLR-3  Output: (8x) Female XLR-3</td>
</tr>
<tr>
<td>Ambient Temperature †</td>
<td>-4° ~ 104°F (-20° ~ 40°C)</td>
</tr>
</tbody>
</table>

**Included Models**

DI-1804

† Do not install product in an environment outside the listed ambient temperature.

**Installation**

Prior to installation, verify all components are a compatible system. Configure and pre-test your LED system prior to permanent installation to ensure all components are operating correctly. Install in accordance with the NEC and local regulations.

1. **Turn OFF High Voltage AC Power** at the main breaker.

   **WARNING** Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing this product.

2. **Determine Locations to Install 4 Main Components.**

   1) Driver      2) DMX Controller  3) DMX Splitter  4) Fixture(s)

   Determine an accessible location to install a compatible driver between the main breaker and DMX Splitter. Also, determine locations to install additional system components such as DMX fixtures, controllers, etc.

3. **Attach Lighting Load and Driver. Only use copper wiring.** Reference ‘Wiring Connections’ located further in guide for visual. Verify a compatible constant voltage driver is installed.

4. **Install Additional Components, Verify Connections, and Turn Main Power ON at Breaker.**

   If system remains unresponsive or is working improperly, turn OFF main power at breaker and verify all connections. Review the ‘Wiring Connections’, ‘Troubleshooting’, and DMX installation guides.
## Wiring Connections

DO NOT connect directly to 120VAC. Install in accordance with the NEC, and local regulations.

![Diagram of DMX 8-WAY SPLITTER](image)

- **Input From 12-24V Driver**: Requires Male DC Plug, 5.5 x 2.1mm
- **DMX-512 Input**: Male XLR-3 Connection
- **DMX-512 Output**: (8x Female XLR-3 Connections)
- **Pin 1**: Ground
- **Pin 2**: Data -
- **Pin 3**: Data +

*Note: Voltage for 8-way Splitter, and voltage for LED’s must match. (ex. 12V & 12V, or 24V & 24V)*

## Troubleshooting

Prior to troubleshooting, ensure a compatible system is installed. Verify compatible fixtures, drivers, controls and additional components were specified correctly.

| LED fixture responding incorrectly | • Ensure all wiring connections are correct. Reversing the Data + and Data - will cause lights to flicker and not respond to controller.  
| • Check power connections of all components (drivers, DMX decoders/fixtures, DMX controller).  
| • Ensure a compatible constant voltage driver is installed.  
| • Ensure the driver and DMX fixture have the same voltage specifications (12V & 12V, or 24V & 24V). |
| Fixture is flashing or flickering | • Verify a compatible constant voltage driver is installed.  
| • Ensure all connections are properly secured. |

## Additional Resources


- **DMX 8-WAY SPLITTER Specification Sheet**
  For full specifications.

- **Voltage Drop Charts**
  Use to specify appropriate wire gauge for installation. Available at the ‘Tools & Resources’ page at www.DiodeLED.com.

## QUESTIONS?

Visit www.DiodeLED.com or contact Customer Support at info@diodeled.com or 1.877.817.6028 Monday through Friday, 7:00am- 5:00pm PST.

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