## FEATURED NEW PRODUCTS:

### FENCER™ Under Cabinet LED Light Fixture Series

NEW

FOIL™ Fixture

SABER™ Fixture

**Direct-wire, dimmable under cabinet lighting.**

### CHROMAPATH™ Aluminum Channels

NEW

**Original strip light channels available only from Diode LED.**

### Ultra Reflective White Finish On All LED Strip Light

NEW

**High performance LED strip light now comes in a bright white reflective finish.**

## And much more inside...

# diode led
## Catalog Supplement 2

# CONTENTS

## Experience the Diode Difference

At Diode LED, we are dedicated to high quality LED lighting solutions. It is this passion which drives our pursuit to provide superior products at affordable prices.

In a fast-paced market full of innovation and new technology, we strive to provide our customers the product differentiation and assistance they need to get the right products for their lighting challenges. When it comes to LED lighting, we offer the highest quality solutions while making them simple to understand, effortless to adapt, and easy to use. This is what we call *The Diode Difference*.

As we grow, so does our commitment to our customers. We actively listen and work to improve our product features and designs to meet the needs of our customers. We specialize in products that are designed for use in a wide variety of applications from residential to commercial that can transform any space into a work of art. By customizing our product to fit your needs, the options are endless and we are excited to explore these opportunities with you.

Visit our website (www.DiodeLED.com) to find up-to-date technical information about our products which include specification sheets, wiring diagrams, educational tutorials, videos, and more!

We know you will enjoy our latest offers featured in this catalog and invite you to :

*Experience the Diode Difference*

# Don't forget to checkout the complete Diode LED Catalog.
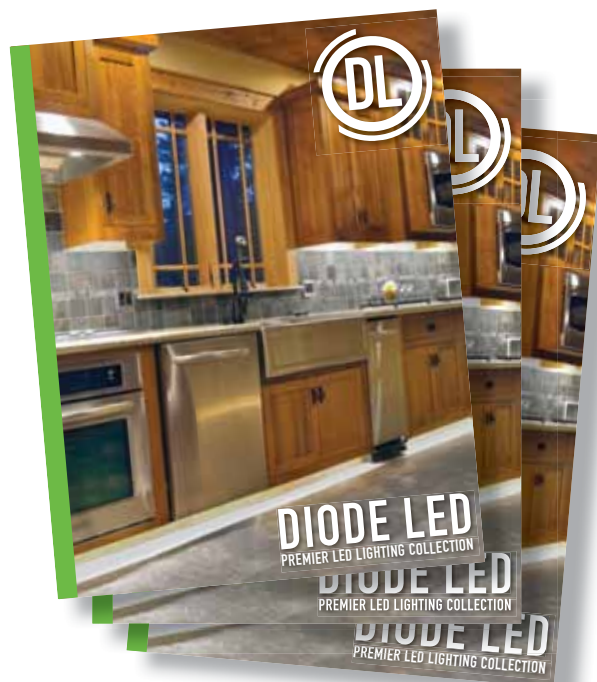
- 92 full color pages
- Over 450 products
- Technical information
- Product comparisons
- Additional accessories
- In-use photos
- And much more...

Visit www.DiodeLED.com and click on the catalog to download the complete Diode LED catalog now.

Instructions and Specifications
are available at DIODELED.COM

**NEW** # Ultra Reflective White Finish Now Available On All LED Strip Light



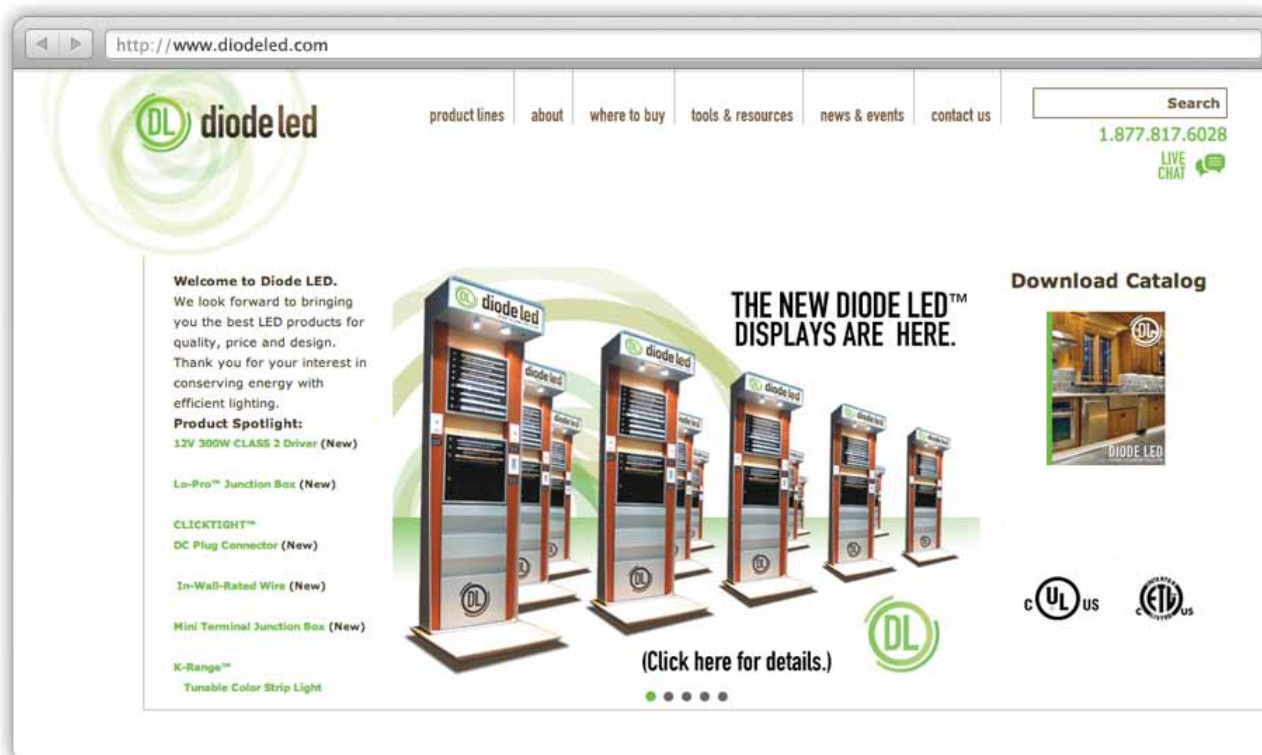The dependable and high performance strip light, that Diode LED is known for, now comes in a new white finish. This new bright white finish is more reflective than the traditional flexible copper finish and comes on all LED strip light styles.

### White finish comes on the following:

- EMBER Mist Resist™ Strip Light
- FLUID VIEW™ Strip Light *
- SIDEWINDER™ Vertical Strip Light
- BLAZE™ High Output Strip Light *
- ULTRA BLAZE™ High Output Strip Light
- Double BLAZE™ Strip Light
- K-RANGE™ Tunable Color Strip
- DAZZLE™ High Output RGB Strip Light *

  * Also available in a wet location option

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**NEW** # BLAZE™ High Output Strip Light

**Warm White 2700K (item #DI-0090)**
**Neutral White 4200K (item #DI-1350)** *New Kelvin*
**Cool White 5000K (item #DI-0091)**          Width: 8mm



Due to customer demand, we are now offering our most popular strip light in 4200K Neutral White. The new color temperature is preferred in displays and retail locations for accurate color representation.

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**NEW** # EMBER Mist Resist™ Strip Light

**Warm White (item #DI-1550)**          Width: 8mm



EMBER Mist Resist Strip Light is the perfect LED lighting option for indoor areas exposed to occasional splashing or excessive dust and dirt. Common applications include kitchen areas, toe-kick locations, and pantries.

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# K-RANGE™ Tunable White Strip Light

**(item #DI-1106)**          Width: 11mm



K-RANGE Strip Light is the same dependable adjustable Kelvin range strip light, but now comes in a narrow format for channel installations.

**Maximum Run:** 10 ft.

**NOTE:** New bending extensions in the chart to the right. See catalog or website for complete accessories.

| Item # | Length | Product Description |
|--------|--------|---------------------|
| DI-1109 | 4 in. | K-RANGE Bending Extension |
| DI-1110 | 6 in. | K-RANGE Bending Extension |
| DI-1111 | 12 in. | K-RANGE Bending Extension |

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**NEW** # Double BLAZE™ Strip Light

**Warm White 2700K (item #DI-1340)**
**Cool White 5000K (item #DI-1341)**          Width: 14mm



Double BLAZE LED Strip Light is twice as bright as our BLAZE LED Strip Light and four times as bright as FLUID VIEW LED Strip Light. This is our brightest strip light and features two parallel rows of densely-packed, high output LED chips.

**Maximum Run:** 10 ft.

**NOTE:** Only for use with the connectors in the chart to the right.

| Item # | Length | Product Description |
|--------|--------|---------------------|
| DI-0811 | | Double BLAZE Strip Light Splice Connector |
| DI-0812 | 3 in. | Double BLAZE DC Plug Strip Light Connector |
| DI-0813 | | Double BLAZE Strip Light Bending Extension |
| DI-0814 | 0.5 in. | Double BLAZE Strip-To-Strip Connector |

## NEW CLICKTIGHT™ Strip Light Connectors

The CLICKTIGHT Connector performs as a simple, secure connection for Diode LED strip lights. This LED connector eliminates the need to solder and is more secure than pressure-fit strip light connectors. CLICKTIGHT features a special strip light locking connector with teeth to grip the surface and prevent slipping or loss of connection.

**Note:** CLICKTIGHT Connectors will replace the pressure-fit strip light Connector for Diode LED.

*All CLICKTIGHT Connectors may be ordered in bulk quantities of 25 and 50. Add "-25" or "-50" to the end of the item number.* **Example: DI-0850-50**

**Easy-to use:**
Strip light easily slips in and locks into the connector. Visit the CLICKTIGHT product page for detailed instructions at www.DiodeLED.com

| Strip Type | CLICKTIGHT™ Model | 3 in. | 6 in. | 12 in. | 24 in. | 48 in. | 72 in. | 96 in. |
|---|---|---|---|---|---|---|---|---|
| EMBER™ FLUID VIEW™ *BLAZE™ | Standard W/ DC Plug Connector | DI-0850 | - | - | - | - | - | - |
| | Standard Splice Connection | DI-0855 | - | - | DI-0856 | DI-0857 | DI-0858 | DI-0859 |
| | Standard Bending Extension | DI-0860 | DI-0896 | DI-0897 | DI-0861 | DI-0862 | DI-0863 | DI-0864 |
| *ULTRA BLAZE™ (Both 12V & 24V) | ULTRA BLAZE™ DC Plug Connector | DI-0870 | - | - | - | - | - | - |
| | ULTRA BLAZE™ Splice Connector | DI-0875 | - | - | DI-0876 | DI-0877 | DI-0878 | DI-0879 |
| | ULTRA BLAZE™ Bending Extension | DI-0880 | DI-0898 | DI-0899 | DI-0881 | DI-0882 | DI-0883 | DI-0884 |
| *DAZZLE™ | RGB Splice Connector | DI-0885 | - | - | DI-0886 | DI-0887 | DI-0888 | DI-0889 |
| | RGB Bending Extension | DI-0890 | DI-1090 | DI-1091 | DI-0891 | DI-0892 | DI-0893 | DI-0894 |

| Strip Type | CLICKTIGHT™ Strip-To-Strip | Item # |
|---|---|---|
| EMBER™ FLUID VIEW™ *BLAZE™ | Standard Strip-To-Strip | DI-0865 |
| *ULTRA BLAZE™ (Both 12V & 24V) | ULTRA BLAZE Strip-To-Strip | DI-0869 |
| *DAZZLE™ | RGB Strip-To-Strip | DI-0895 |

*BLAZE, ULTRA BLAZE and DAZZLE are high density LED strip lights with unique installation guidelines. Visit www.DiodeLED.com for specific instructions for high density strip lights.

## In-Wall-Rated Wire

**(item #DI-0825-S)** 16/2 AWG by the 250' spool
**(item #DI-0825-F)** 16/2 AWG by the foot
**(item #DI-0824-S)** 18/2 AWG by the 250' spool
**(item #DI-0824-F)** 18/2 AWG by the foot

Hiding wire can be difficult when installing low-voltage lighting. For a discreet installation, you may choose to hide the wires behind a wall. The In-Wall Rated Wire is the best option for this low-voltage lighting configuration and is perfect for large or small remodels and upgrades. This Class 2 wire conforms to national electrical safety standards for in-wall lighting installation and comes in 16 AWG and 18 AWG (American Wire Gauge).

**Note:** Not for use in wet locations.

**Conforms to the following standards:**
| | |
|---|---|
| NEC 725 | UL listed |
| Article 800 | CL2 rated |

LISTED    Detail

# CHROMAPATH™ Aluminum Channels

CHROMAPATH Aluminum Channels offer an elegant solution for enclosing strip light in a protective and lightweight enclosure. Choose one of the four styles with a Clear or Frosted lens to create a customized lighting fixture with a professional finished look. Channels and lenses are cuttable and can be mounted end-to-end.

- New wider track fits all CLICKTIGHT connectors to eliminate the use of soldering, and maximizes beam angle.
- New mounting clips make installation easy. Simply mount the clips to a desired surface and snap in the CHROMAPATH Aluminum Channel.
- 48" channel length accommodates strip light cut points of all densities for flawless lighting throughout the full enclosure.
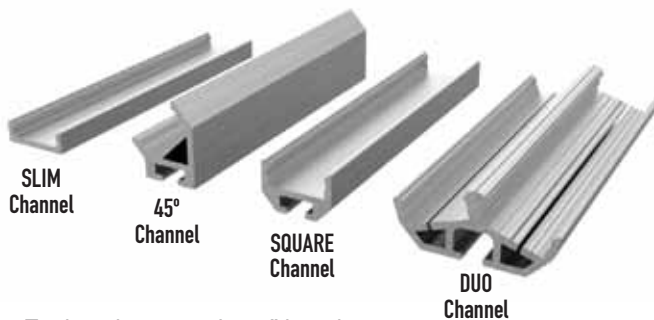
SLIM Channel    45º Channel    SQUARE Channel    DUO Channel

Each style comes in 48" lengths.

**Note:** SLIM Channel is not compatible with wet location strip light.

**Two Protective Lenses
Clear & Frosted**

FROSTED    CLEAR

## CHROMAPATH™ Assembly
1. Apply strip light with adhesive backing.
2. Feed lead wires through open end-cap.
3. Affix lens to channel.
4. Mount and connect to power.

Visit www.DiodeLED.com for complete instructions.
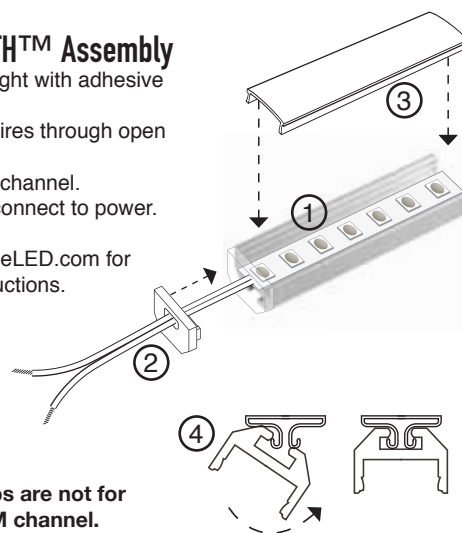
**Mounting clips are not for use with SLIM channel.**

**CHROMAPATH™ Mounting Clips**
Four (4) clips included with each 48" length (except SLIM).

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7 mm    17mm wide
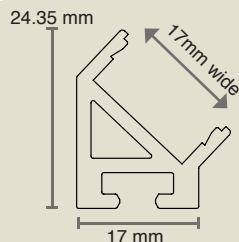21 mm
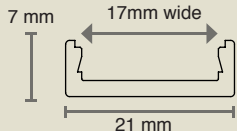
### SLIM Channel
Ultra thin channel for minimal appearance

**Mounting:**
To be mounted with 3M Adhesive Tape. (DI-0775)

**SLIM Channel Closed End-Cap**

**SLIM Channel Open End-Cap**

Open End-Cap is an access-way for wire leads.

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24.35 mm    17mm wide
17 mm

### 45º Channel
45º angle for directed light

**45º Channel Closed End-Cap**

**45º Channel Open End-Cap**    End-Cap A

**45º Channel Closed End-Cap**

**45º Channel Open End-Cap**    End-Cap B

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24.35 mm    17mm wide
21 mm
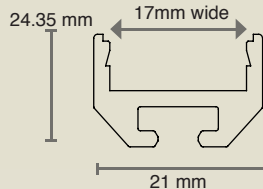
### SQUARE Channel
Strip light enclosure for low profile installations

**SQUARE Channel Closed End-Cap**

**SQUARE Channel Open End-Cap**

Open End-Cap is an access-way for wire leads.

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19.004 mm    17mm wide
42.773 mm

### DUO Channel
Side-by-side trenches allow for double light output

**DUO Channel Closed End-Cap**

**DUO Channel Open End-Cap**

Open End-Cap is an access-way for wire leads.
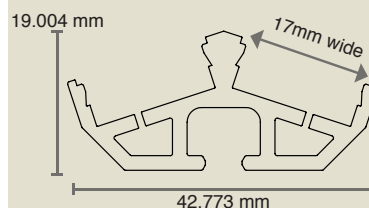
# CHROMAPATH™ Aluminum Channels (continued)

**Aluminum Channels**

| Item # | Aluminum Channels |
|--------|-------------------|
| DI-1600-B | CHROMAPATH – SQUARE Aluminum Channel (48")<br>Comes with 4x mounting clips and 2x end-to-end connector plugs (for seamless in-line installation). |
| DI-1601-B | CHROMAPATH – 45° Aluminum Channel (48")<br>Comes with 4x mounting clips and 2x end-to-end connector plugs (for seamless in-line installation). |
| DI-1602-B | CHROMAPATH – DUO Aluminum Channel (48")<br>Comes with 4x mounting clips and 2x end-to-end connector plugs (for seamless in-line installation). |
| DI-1603 | CHROMAPATH – SLIM Aluminum Channel (48")<br>Aluminum channel only. Not compatible with mounting clips nor end-to-end connector plugs. |

**Channel Lens (available individually or in multi-packs)**

| Item # | Lenses |
|--------|--------|
| DI-1610 | CHROMAPATH – Frosted Channel Lens (48") – 1 lens |
| DI-1611 | CHROMAPATH – Clear Channel Lens (48") – 1 lens |
| DI-1610-2 | CHROMAPATH – Frosted Channel Lens (48") – 2 lens pack |
| DI-1611-2 | CHROMAPATH – Clear Channel Lens (48") – 2 lens pack |
| DI-1610-5 | CHROMAPATH – Frosted Channel Lens (48") – 5 lens pack |
| DI-1611-5 | CHROMAPATH – Clear Channel Lens (48") – 5 lens pack |
| DI-1610-10 | CHROMAPATH – Frosted Channel Lens (48") – 10 lens pack |
| DI-1611-10 | CHROMAPATH – Clear Channel Lens (48") – 10 lens pack |

**Channel End-Caps (Available in packs of 3 or 10)**

| Item # | End-Cap Bundles |
|--------|-----------------|
| DI-1620-3 | CHROMAPATH – SQUARE End-cap – 3 pack<br>Includes 3 Closed End-Caps and 3 Open End-Caps |
| DI-1620-10 | CHROMAPATH – SQUARE End-cap – 10 pack<br>Includes 10 Closed End-Caps and 10 Open End-Caps |
| DI-1622-3 | CHROMAPATH – 45° End-cap – 3 pack<br>Includes 3 Closed End-Caps A, 3 Closed End-caps B, 3 Open End-caps A and 3 Open End-Caps B |
| DI-1622-10 | CHROMAPATH – 45° End-cap – 10 pack<br>Includes 10 Closed End-Caps A, 10 Closed End-caps B, 10 Open End-caps A and 10 Open End-Caps B |
| DI-1624-3 | CHROMAPATH – DUO End-cap – 3 pack<br>Includes 3 Closed End-Caps and 3 Open End-Caps |
| DI-1624-10 | CHROMAPATH – DUO End-cap – 10 pack<br>Includes 10 Closed End-Caps and 10 Open End-Caps |
| DI-1626-3 | CHROMAPATH – SLIM End-cap – 3 pack<br>Includes 3 Closed End-Caps and 3 Open End-Caps |
| DI-1626-10 | CHROMAPATH – SLIM End-cap – 10 pack<br>Includes 10 Closed End-Caps and 10 Open End-Caps |

**Channel Mounting Accessories**

| Item # | Accessories |
|--------|-------------|
| DI-1630-20 | CHROMAPATH – Mounting Clips – 20 pack (not for use with SLIM Aluminum Channel) |
| DI-1631-10 | CHROMAPATH – Universal end-to-end connector plugs – 10 pack<br>For seamless in-line installation  (not for use with SLIM Aluminum Channel) |
| DI-0775-F | 3M Double-sided adhesive tape available by the foot.<br>Recommended mounting method for SLIM Aluminum Channel |

# FENCER™ Under Cabinet LED Light Fixture Series

**SABER™ Fixture**
Traditional design

**FOIL™ Fixture**
Modern slim design

The FENCER fixture represents a new generation of under cabinet lighting for kitchens and task lighting. This high quality, ultra bright fixture connects directly to 120V AC electrical currents and is compatible with select wall dimmers (see specifications). The 8", 12", 18", 24", and 32" length options can be linked seamlessly together or configured with extension cables for a completely customizable installation. With dimmability, style, and accommodating length options, the FENCER Series is one of the most versatile direct-line under cabinet LED light fixtures on the market.

**SABER™** : The traditional wide design is equipped with a single On/Off switch per fixture.

Each SABER Fixture comes with:
• Multiple knockouts for Romex cable
• Linkable End-To-End Connector
• Captive screws for mounting

Available in two finish options:  White   Bronze

**Installation Note:** The SABER Fixture can be hard-wired through integrated knockouts.

**FOIL™** : A compact and modern design with an optional accessory junction box featuring an On/Off switch.

Each FOIL Fixture comes with:
• Two (2) mounting clips (with 90° adjustibility)
• Linkable End-To-End Connector

Available in two finish options:  White   Silver

**Installation Note:** Power cable not included. See product accessories for the appropriate power connection.

8" SABER™ Fixture

12" SABER™ Fixture

18" SABER™ Fixture

24" SABER™ Fixture

32" SABER™ Fixture

· **Easy to install - New or retrofit**
· **Direct connect to 120 AC voltage**
· **No external driver needed**
· **Bright warm illumination**
· **Two attractive designs**

32" FOIL™ Fixture

24" FOIL™ Fixture

12" FOIL™ Fixture

8" FOIL™ Fixture

# FENCER™ Under Cabinet LED Light Fixture Series

## FENCER™ Fixture Specifications

| Item # | Size | Style | Lumens | Max. Wattage | Fixture Color | Color Temp. | CRI | LEDs Per Bar | Dimensions L x W x H |
|--------|------|-------|--------|--------------|---------------|-------------|-----|--------------|----------------------|
| DI-1302-8-WH-30 | 8" | SABER | 175 lm | 2.8W | White | 3,000K | 80 | 7 | 8.77" x 3.62" x 0.96" |
| DI-1302-8-BZ-30 | 8" | SABER | 175 lm | 2.8W | Bronze | 3,000K | 80 | 7 | 8.77" x 3.62" x 0.96" |
| DI-1302-12-WH-30 | 12" | SABER | 250 lm | 4W | White | 3,000K | 80 | 10 | 12.32" x 3.62" x 0.96" |
| DI-1302-12-BZ-30 | 12" | SABER | 250 lm | 4W | Bronze | 3,000K | 80 | 10 | 12.32" x 3.62" x 0.96" |
| DI-1302-18-WH-30 | 18" | SABER | 375 lm | 6W | White | 3,000K | 80 | 15 | 18.2" x 3.62" x 0.96" |
| DI-1302-18-BZ-30 | 18" | SABER | 375 lm | 6W | Bronze | 3,000K | 80 | 15 | 18.2" x 3.62" x 0.96" |
| DI-1302-24-WH-30 | 24" | SABER | 500 lm | 8W | White | 3,000K | 80 | 20 | 24.17" x 3.62" x 0.96" |
| DI-1302-24-BZ-30 | 24" | SABER | 500 lm | 8W | Bronze | 3,000K | 80 | 20 | 24.17" x 3.62" x 0.96" |
| DI-1302-32-WH-30 | 32" | SABER | 675 lm | 10.8W | White | 3,000K | 80 | 27 | 32.71" x 3.62" x 0.96" |
| DI-1302-32-BZ-30 | 32" | SABER | 675 lm | 10.8W | Bronze | 3,000K | 80 | 27 | 32.71" x 3.62" x 0.96" |
| DI-1303-8-WH-30 | 8" | FOIL | 175 lm | 2.8W | White | 3,000K | 82 | 7 | 8.77" x 1.1" x .094" |
| DI-1303-8-SV-30 | 8" | FOIL | 175 lm | 2.8W | Silver | 3,000K | 82 | 7 | 8.77" x 1.1" x .094" |
| DI-1303-12-WH-30 | 12" | FOIL | 250 lm | 4W | White | 3,000K | 82 | 10 | 12.32" x 1.1" x .094" |
| DI-1303-12-SV-30 | 12" | FOIL | 250 lm | 4W | Silver | 3,000K | 82 | 10 | 12.32" x 1.1" x .094" |
| DI-1303-24-WH-30 | 24" | FOIL | 500 lm | 8W | White | 3,000K | 82 | 20 | 24.17" x 1.1" x .094" |
| DI-1303-24-SV-30 | 24" | FOIL | 500 lm | 8W | Silver | 3,000K | 82 | 20 | 24.17" x 1.1" x .094" |
| DI-1303-32-WH-30 | 32" | FOIL | 675 lm | 10.8W | White | 3,000K | 82 | 27 | 32.71" x 1.1" x .094" |
| DI-1303-32-SV-30 | 32" | FOIL | 675 lm | 10.8W | Silver | 3,000K | 82 | 27 | 32.71" x 1.1" x .094" |

**SPECIFICATIONS:**

**Input Voltage**: 120V AC
**Dimmable**: With compatible forward phase and reverse phase dimmers
**Environment**: Indoor only
**Ambient Operating Temp.**: 77º F (25ºC)
**Max. Run**: Up to 40 linear fixtures
**Min. Load:** Refer to dimmer switch specifications
**Rated Lamp Life**: 50,000 hours
**LED Chip Type**: Osram Sylvania
**Nominal Flux**: 550 lm
**Lamp Flux**: 550 lm x 1 meter
**Power Factor**: 0.9540%
**LED Spacing (between centers)**: 1.5 in.

## FENCER™ Fixture Accessories

| Product Image | Product Description | Item # | Color | Dimensions L x W x H |
|---------------|---------------------|--------|-------|----------------------|
| | **FENCER™ Junction Box with On/Off Switch** In configuration with the FOIL Fixtures, the Junction Box can act as a direct line hub as well as offering a built-in On/Off switch for your installation. **Hard-wire only.** | DI-1305-WH | White | 6.25" x 3.62" x 0.96" |
| | | DI-1305-SV | Silver | 6.25" x 3.62" x 0.96" |
| | **FENCER™ Linkable End-To-End Connector** Seamlessly connects two sections of any length fixture together. | DI-1306-WH | White | 0.8" x 0.67" x 0.44" |
| | | DI-1306-BK | Black | 0.8" x 0.67" x 0.44" |
| | **FENCER™ 6" Extension Cable** Perfect for jumping around gaps and obstructions in the installation or negotiating angles of any degree. | DI-1307-WH | White | 6" x 0.66" x 0.42" |
| | | DI-1307-BK | Black | 6" x 0.66" x 0.42" |
| | **FENCER™ 12" Extension Cable** | DI-1308-WH | White | 12" x 0.66" x 0.42" |
| | | DI-1308-BK | Black | 12" x 0.66" x 0.42" |
| | **FENCER™ 24" Extension Cable** | DI-1309-WH | White | 24" x 0.66" x 0.42" |
| | | DI-1309-BK | Black | 24" x 0.66" x 0.42" |
| | **FENCER™ 72" Extension Cable** | DI-1310-WH | White | 72" x 0.66" x 0.42" |
| | | DI-1310-BK | Black | 72" x 0.66" x 0.42" |
| | **FENCER™ 72" Power Cable with AC Plug** 120V AC Plug-to-fixture connector cable. | DI-1311-WH | White | 72" x 0.66" x 0.42" |
| | | DI-1311-BK | Black | 72" x 0.66" x 0.42" |
| | **FENCER™ 72" Power Cable with Hard-Wire Connection** 120V AC Splice-to-fixture connector cable. | DI-1312-WH | White | 72" x 0.66" x 0.42" |

![DL diode led®]

**NEW**

# RGB Inline Color Controllers

**RGB Inline Remote Controller (item # DI-1703)** L5.8" x W2.2" x H1"
**RGB Inline Button Controller (item # DI-1704)** L5.8" x W2.2" x H1"

The RGB Inline Controller is our smallest and most user-friendly color controller and comes in two models. Choose between the RF remote control or local control for your color changing installation. Both models work with 12V and 24V LED lighting, and have power memory to return to the previous setting when powered up. Both controllers are equipped with a female DC plug for quick plug-and-play installations.

RF Remote Range: Up to 50 ft.

**RGB Button Controller**          **RGB Remote Controller**

**NEW**

# RGB Zone Color Control System

**RGB Zone Color Control Receiver (item # DI-1700)** L8.3" x W1.5" x H1.2"
**RGB Zone Color Control Remote (item # DI-1701)** L5.8" x W2.2" x H1"

The RGB Zone System consists of the RGB Zone Receiver and the RGB Zone Remote, which can control up to 10 independent RGB Zone Receivers (remote and receivers must be paired during installation). For use with RGB color changing strip light or light bars, the RGB Zone System has 18 built in color modes as well as a capacitive touch color wheel on the zone remote. The Zone Remote has a comfortable ergonomic shape and is rechargeable.

RF Remote range: Up to 90 ft.

Charging method: USB  Plug (Included with remote)

**RGB Zone Remote**          **RGB Zone Receiver**

**NEW**

# RGB Color & LED Wi-Fi Controller

**(item # DI-1702)** L5" x W2.8" x H1.75"

The LED Wi-Fi Controller puts the dimming and RGB color control of your LED lights into you mobile device. Touchscreen compatibility with Apple and Android systems allows control from anywhere within Wi-Fi range. With your mobile device connected, the LED Wi-Fi Controller will dim 12V-24V LED lighting all in real time with no PC Software!

**Wi-Fi Controller**

**NEW**

## LightTouch™ LED Dimmer Switch

**(item # DI-1711)** L3.5" x W1.2" x H0.35"

The LightTouch™ LED Dimmer Switch is a compact and dynamic tool for dimming LED lighting. It features a fully touch-sensitive housing for full dimming control and for turning your lights on and off. The LightTouch™ LED touch dimmer features DC plugs that are standard to all our DC plug accessories.

**NEW**

## Infrared On/Off Switch

**(item # DI-1710)** L3.5" x W1.2" x H0.35"

This sleek and low profile Infrared On/Off Switch responds to the slightest change in the infrared light spectrum by turning on the light when you open a closet or cabinet and turning it off when the door is closed. Works with any of Diode LED's low voltage 12-24V DC LED lighting products.

## SPLASH Series LED Wall Washers

Diode LED has improved and streamlined its line of LED wall washers to bring customers the highest quality lighting for nearly every application. Each wall washer unit is made of strong aluminum alloy, built for strength and durability, and holds 36 high-output and energy-efficient LED bulbs. SPLASH wall washers are powered with a grounded AC power cable and feature input/output DMX cables for daisy-chaining and compatibility with DMX controllers.

Wall washers can be operated in two ways:

- **Master/Slave:** Multiple slave fixtures synced to the command of a master wall washer with on-board controls.
- **DMX Controller:** One or more wall washers commanded by a DMX controller.

### BROADWAVE™ LED Wall Washer

**(item # DI-0450) RGB Wall Washer**
**(item # DI-0454) Cool White Wall Washer**
L48.4" x W2.74" x H3" (Height with base 5.1")
Diode LED's 49 inch wall washer is ideal for billboards and other indoor/outdoor signage or architectural applications. Featuring new and improved mounting brackets for wall and ceiling installations.

| | |
|---|---|
| UL Listed | 45º beam angle |
| 120V AC Power plug | 23 foot max. projection distance |
| DMX Compatible | Suitable for wet locations |

### SPHERE-STAR™ PAR 64 LED Wall Washer

**(item # DI-0471) RGB Wall Washer**
**(item # DI-0475) Cool White Wall Washer**
L7" x W8" x H7.5" (Height with base 10")
This LED spotlight is only 7 inches in diameter, so it can be used for event and theater spotlighting, flood lighting, or interior/exterior architectural accent lighting.

| | |
|---|---|
| UL Listed | 15º beam angle |
| 120V AC Power plug | 65 foot max. projection distance |
| DMX Compatible | Suitable for wet locations |

### NEW SPLASHLIGHT™ LED Wall Washer

**(item # DI-0480) RGB Wall Washer**
L13.2" x W6" x H8.4"
This full color flood light can be swiveled side to side 30° in either direction, and rotated up or down a full 150°. This amount of flexibility is ideal for performance and event lighting.

| | |
|---|---|
| UL Listed | 45º beam angle |
| 120V AC Power plug | 23 foot max. projection distance |
| DMX Compatible | Suitable for wet locations |

## 12V - 300W Class 2 Dimmable Driver

**(item #DI-0965)** L7" x W7" x H3.2"

This new multiple-output dimmable driver has been specifically designed to power large lighting installations while meeting strict Class 2 electrical regulations. Large-scale low voltage projects would normally require multiple 60 watt (or smaller) drivers to meet 12V Class 2 restrictions. This driver meets code specifications by offering six individual 50 Watt output circuits for a total of 300 watts of usable power. The 300W driver also has a significant cost advantage for installations that require four (or more) 60 watt drivers.

| | |
|---|---|
| **Rated Wattage:** | 300W |
| **Enclosure:** | Steel, powder coated |
| **Input Voltage:** | 120V AC |
| **Frequency:** | 60Hz |
| **Input Current:** | 2.8A, maximum no load input current: 0.6A |
| **Output Voltage:** | Without Boost: 11.6V DC<br>With Boost: 12.6V DC |
| **Output Power:** | 6 Circuits 12V DC @ 50W / 4.2A |
| **Environment:** | Indoor only |
| **Working Temperature:** | Enclosure temperature does not exceed 158 ºF (70 ºC) in a 104 ºF (40 ºC) ambient, fully loaded. |
| **Ambient Operating Temperature:** | -4 ~104 ºF (-20 ºC ~ 40 ºC) |

c **UL** US
**LISTED**

Easy access to connection terminals.

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**NEW**

## 12V - 12W Class 2 Mini Driver

**(item #DI-0941)** L3" x W1.5" x H1.2"

12V 12W Class 2 Mini Driver is a hard-wired indoor non-dimmable solution for small LED lighting applications.

**Rated Wattage:** 12W     **Output:** 12V DC
**Input Voltage:** 90-264V DC     **Ambient Operating Temp:** -4 ~ 104 ºF (-20 ~ +50 ºC)
**Input Frequency:** 47-63 Hz     **Environment:** Indoor Only

c **UL** US

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**NEW**

## VoltaMax™ II High Output Rechargeable Battery Pack

**(item #DI-1900)** L3.7" x W2.4" x H1.1"

The VoltaMax™ II High Output Rechargeable 12V Battery Pack is a lithium-ion battery and has recently been updated for better performance with 12V DC LED lighting. The battery pack can be recharged without limitations and gives longer battery life for portable LED applications. The VoltaMax II battery comes with a male DC plug extension cable that connects directly to any Diode LED fixture or accessory via a female DC plug.

**Adapter Input:** 100-240V AC, 50/60Hz     **Capacity:** 9800mAh
**Adapter Output:** 12.6V DC / 1000mA     **Ambient Operating Temp:** Max. 133 ºF (56 ºC)
**Battery Input:** 12.6V DC, 350mA / 350-1000mA     **Environment:** Dry location only
**Battery Operating Voltage:** 10.8-12.6V DC     **Maximum Load:** 3A / 36W

# Lo-Pro™Junction Box

**(Item #DI-0980)** L7.7" x W1.8" x D4.9"

The Lo-Pro™ Junction Box is a low profile and rugged steel enclosure designed for use with our 20W, 35W, and 60W 12V Drivers. This power supply enclosure is ETL listed to UL STD 508A and complies with electrical codes requiring junction boxes to separate high and low voltage wiring within the same enclosure. This low voltage accessory is an essential piece in hard-wired LED light installations.

Designed for contractor installation, this surface mount enclosure features four 0.20" mounting holes in a NEMA 1 steel enclosure and is protected by a black powder-coated finish. The Lo-Pro™ Junction Box is intended for indoor installations and is designed to securely hold the following 12V Drivers:

> **Power Supply Sold Separately**
>
> 12V 20 Watt Class 2 Non-Dimmable Driver (item #DI-0904)
> 12V 35 Watt Class 2 Non-Dimmable Driver (item #DI-0918)
> 12V 60 Watt Class 2 Non-Dimmable Driver (item #DI-0906)

**Certifications**: ETL Listed (Conforms to UL STD 508A)
**Enclosure**: NEMA 1 steel
**Environment**: Indoor only
**Ambient Temp.**: Not to exceed 40 ºC (104 ºF)
**Mounting**: Integral mounting holes with four 0.20" mounting holes for surface mounting
**Knockouts**: 1/2" NPT Knockouts
**Weight**: 0.80 lbs
**Voltage**: ≤ 600V AC

# Mini Terminal Junction Box

**(item #DI-0841)** L1.87" x W1" x H0.75"

Keep those bare wires connected and safe with the Mini Terminal Junction Box. It's a safe and easy way to splice wiring in your lighting application and features a slim design for low profile LED installations. Compliant with electrical codes requiring two conductor connections within an enclosure, this is an affordable and professional way to make sure you have "no loose ends" in your inspection, and avoids messy wire nut and electrical tape connections. This junction box is rated for high and low voltage electrical connections up to 450V AC, but is not rated for in wall use.

The Mini Terminal Junction Box features a removable terminal block for easily connecting a pair of wires. The larger opening in the housing fits the insulation of Romex wire as large as 14AWG, and the smaller opening fits the insulation of two strand wire that is 18AWG or smaller. When the connection is made, simply pop the terminal block back into the junction box and snap the lid shut.
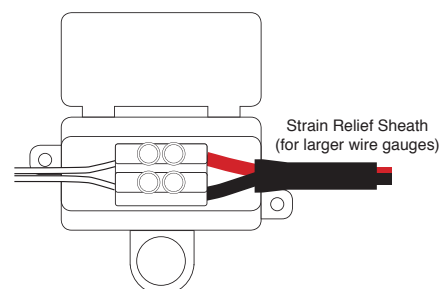
**Connection Type:** Screw connection for solid or stranded wire
**Wire Gauge Capacity:** Max. 14 AWG
**Maximum Voltage:** 450V AC
**Maximum Current:** 24A
**Compliance:** EN/IEC 60998

Strain Relief Sheath
(for larger wire gauges)

# Ordering Guide

Although not all LED fixtures screw in like a traditional light bulb, shopping for LEDs is easy. After choosing the right type of LED product for your application, you just need to choose a 12V or 24V power source for converting 120V AC power to the 12V-24V DC of our fixtures. Lastly, find the right connectors and accessories that work with your unique configuration.

## 1 Select LED Lights

- **Style**: Select the appropriate light or combination of lights from our product families.
- **Size**: How many feet of strip light or number of fixtures do you need?
- **Color**: Warm white (2700k to 3500k) to match warm colors or wood finishes, Neutral White (4200K) for retail and commercial applications, or Cool White (5000k to 6500k) for modern decor lighting, or to showcase items in a display.
- **Brightness**: Do you need a low to standard level of brightness for accent or ambient lighting? Or do you need a high level for task or workspace lighting?

**Note**: Kelvin (k) is used in the measure of the color temperature of light sources

## 2 Select Power Supply

There are four different types of 12V-24V power supplies to choose from:
- **Hard-Wired Non-Dimmable Drivers** are a good solution for large or permanent installations.
- **Plug-In Adapters** are easy to install yourself and less labor-intensive.
- **Hard-Wired Dimmable Drivers** are ideal for large dimmable installations.
- **Portable 12V Battery Packs** provide power when a wall outlet is not available.

How to select the proper size power supply:
First, calculate the "Load" (total wattage) of the circuit. When you have this information, choose the appropriately sized power supply. See below for how to calculate your "Load".
- If you're installing strip light, multiply the wattage per foot* by the number of feet.
- For everything else, multiply the number of fixtures by the wattage per fixture*.
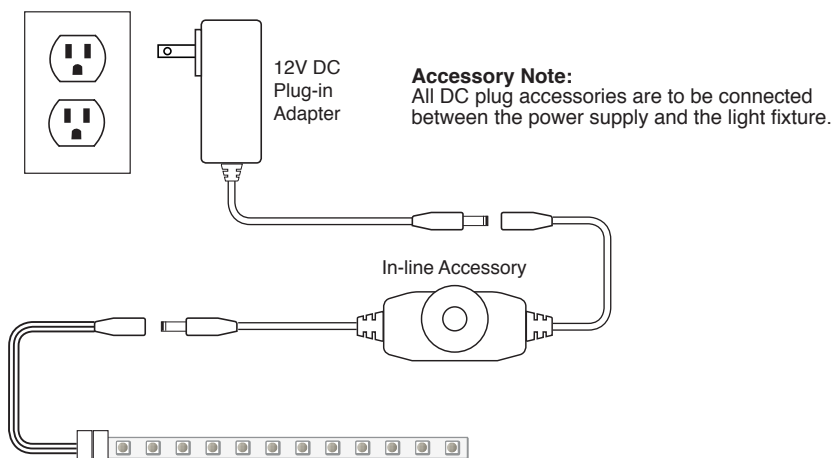
*See product details for wattage specifications.

## 3 Select Accessories

Accessories that are specifically used with any particular product family are identified with that product.
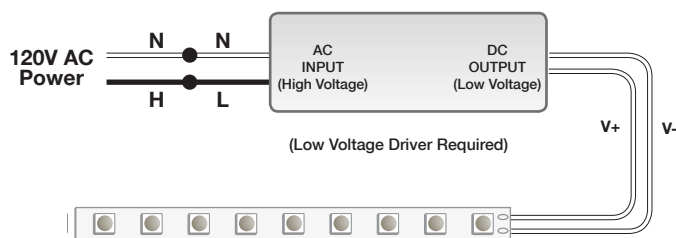- **Connectors**: Most of our products require a connector between the light and power source. Appropriate connectors are listed on product pages.
- **Extension cables**: Do you need extension cables between your fixtures?
- **Switches**: Do you want a dimmer or on/off switch for your lights?
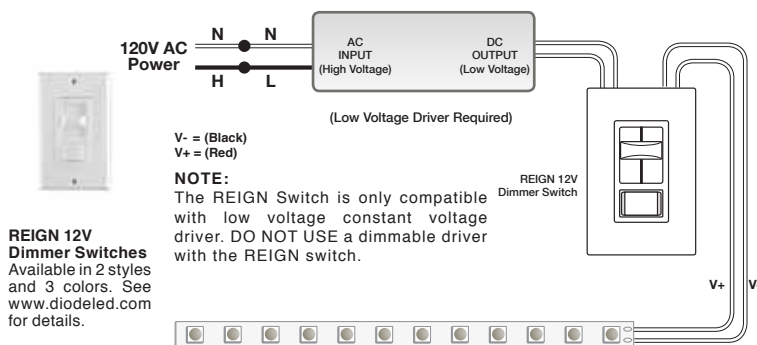- **Splitters**: Are you powering several fixtures with one power supply?

### PLUG-IN ADAPTER WIRING DIAGRAM

12V DC Plug-in Adapter

In-line Accessory

**Accessory Note:**
All DC plug accessories are to be connected between the power supply and the light fixture.

### HARD-WIRED WIRING DIAGRAM

120V AC Power

N  N
H  L

AC INPUT (High Voltage)
DC OUTPUT (Low Voltage)

(Low Voltage Driver Required)

V+  V-

### DIMMING WIRING DIAGRAM – REIGN™ 12V DIMMER SWITCH

120V AC Power

N  N
H  L

AC INPUT (High Voltage)
DC OUTPUT (Low Voltage)

(Low Voltage Driver Required)

REIGN 12V Dimmer Switch

V+  V-

**REIGN 12V Dimmer Switches**
Available in 2 styles and 3 colors. See www.diodeled.com for details.

V- = (Black)
V+ = (Red)

**NOTE:**
The REIGN Switch is only compatible with low voltage constant voltage driver. DO NOT USE a dimmable driver with the REIGN switch.
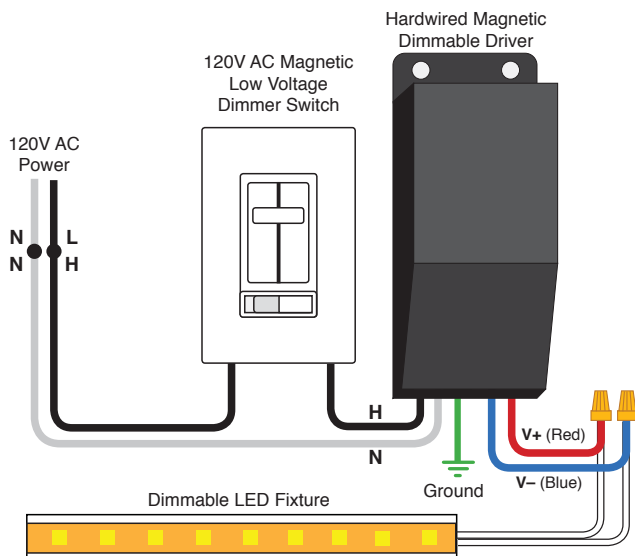
### 120V AC MAGNETIC LOW VOLTAGE DIMMER SWITCH WIRING DIAGRAM

**Standard Dimmable Driver Configuration\***
*Only use recommended 120V AC MLV dimmer switches. See compatibility list for a detailed list of compatible dimmers.
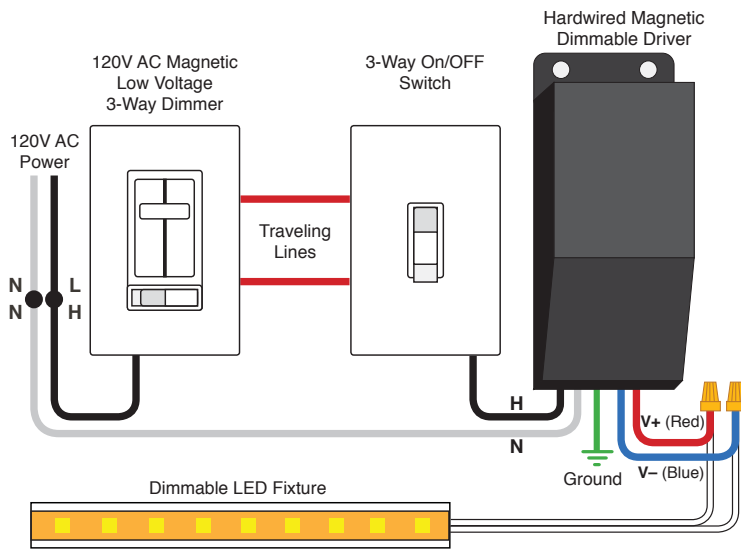
**N= Neutral / L= Line / H=Hot**

Hardwired Magnetic Dimmable Driver

120V AC Magnetic Low Voltage Dimmer Switch

120V AC Power

N  L
N  H

H
N

Dimmable LED Fixture

Ground

V+ (Red)
V− (Blue)

**3-Way Dimmable Driver Configuration\***
*Only use recommended 3-Way dimmer switches for 3-Way dimming applications. See compatibility list for a detailed list of compatible dimmers.

**N= Neutral / L= Line / H=Hot**

Hardwired Magnetic Dimmable Driver

120V AC Magnetic Low Voltage 3-Way Dimmer

3-Way On/OFF Switch

120V AC Power

N  L
N  H

Traveling Lines

H
N

Dimmable LED Fixture

Ground

V+ (Red)
V− (Blue)

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