

# Del Lighting

## 2007 CATALOG

**Fiber Optic Lighting**  
**LED Lighting**  
**DJ Lighting Effects**  
**LED & Mini-light Rope Lighting**  
**Stage Fabrics**  
**Architectural Lighting**  
**Projection Screens**  
**Lasers**

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## **DEL Lighting, Inc. 2006 Catalog**

**Fiber Optic Lighting  
LED Lighting  
Mini-light Rope Lighting  
Laser, UV and Fog Machines  
Architectural Lighting**

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# FIBER OPTIC LIGHTING

By Diane Long - Del Lighting

**F**iber Optic Lighting offers a unique method of lighting virtually anything you can think of without the heat or harmful UV rays normally associated with other lighting products.

## Versatile

General purpose lighting is now possible using the newer illuminators that can distribute light to areas that are hard to get to or maintain. It is designed for indoor and outdoor usage and can be used for such things as perimeter lighting of decks, steps, docks, soffits, entranceways or walkways. It can also be used for the downlighting and spot lighting for bars, ceilings, or used for starfields as well as landscaping accent lighting of trees and shrubs. The illuminator and cable are removable and reusable as well.

The illuminator can be located up to 100 feet from your project and can be used to illuminate multiple applications.

The cable is flexible and can be bent into almost any shape (*see picture*)



## Ease of Maintenance

Periodically replacing a single light bulb at a single source is all that is required. The cable is made of durable, UV protected DMMA plastic. There is nothing to break or burn out. There is no heat transmitted by the cable so it can be used to light combustible materials.

## Safe

Because it carries no electricity, it can be used near, or even in, water and there are no glass tubes or lamps to break. The cable is unbreakable, shockproof and waterproof.

Del Lighting, Inc.



A beautiful room made lovelier by a starfield!

## Economical

With the use of side emitting cable, a neon light look can be achieved over long distances at a fraction of the cost. Fiber optic lighting can have the look of neon lighting but it can change color, dim or even mimic movement while using far fewer components and much less maintenance. This can be done from illuminators that have an operating draw of only .75 amps (about what a 60W bulb uses) for the 75 watt quartz halogen unit or 1.8 amps for the 150 watt metal halide unit. Also, there is only one bulb to replace, and this has a life span of 10,000 hours!

## User friendly

Fiber optic systems are designed for the do-it-yourselfer homeowner or business owner. Just lay the cable, screw the port with the cable end installed into the illuminator and plug the illuminator into a 110V outlet. That's it!

## Elegant

A constantly rotating color wheel produces 5 to 8 spectacular colors. These "mood" lights may also be set at one color depending on the occasion (green for St. Patrick's Day or red for Christmas). With the use of a DMX controller, you can program light shows or pick which colors you wish to view in any sequence of your choosing.

For more information please visit our website: <http://www.del-lighting.com>

# Design Guide

If you have checked the pricing on fiber optic cable, you know how expensive it is. If you spend a little time designing your project, you will find that you can save hundreds - even thousands of dollars!

Here are a few things to keep in mind:

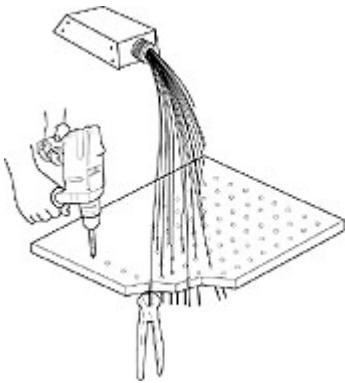
- 1) Where you place the illuminator is very important. The closer to your project, the better. Remember, however, if you place the illuminator in a space that is not air conditioned, you may reduce the lamp life from 10,000 hours to 8,000 hours or even less. In all cases you must have **AT LEAST** 50 cubic feet of free air per minute for each illuminator. A dust free area is recommended as well. Wherever you place the illuminator, allow room to work on the illuminator. If you need more than one illuminator, don't place the illuminators close together, two feet between them is fine. Take into consideration that the illuminator can get hot!
- 2) When you measure the length of cable that you will need, add 18 inches as a "service loop". In many cases, it's cheaper to buy a second (or third) illuminator rather than buy enough cable to reach all corners of your project from only one illuminator. If you want a starfield that changes color and twinkles at the same time, it can be done with the purchase of a special color wheel. If you want more than 750 "stars" in your starfield, use a double port illuminator that will handle up to 1,500 strands of cable. If your project is an exterior one, the largest port available (ST150) will handle 750 strands. The 75 watt exterior unit will handle 350 strands of cable at this time.
- 3) It's covered in the Fiber Guide, but it's worth going over again. The perceived "brightness" of your project is a subjective one. However, there are a few guidelines. A 75 watt illuminator is fine where the ambient lighting is low, such as a garden at night or a darkened home theater. But if you want to make an impact with your project in a mall or you have very long cable runs, then you will have to use the 150 watt illuminator. And don't forget to "loop" the cable for side emitting projects - that will double your light output! Also, the size of the cable directly correlates to the amount of light that is seen at your project. Think of the cable as a water pipe and you have the right idea. Solid core cable carries more light than stranded cable but is stiffer and harder to work with. So if you have some tight curves you have to negotiate, you might stick with the stranded cable.
- 4) Light can bring two spaces together and make spaces look bigger. Windows can become black mirrors at night. To balance outside light levels with those inside the home, illuminate features off the patio and surrounding areas. Uplight trees and shrubs by placing the fixture close to the trunk. Fixtures placed farther back from the tree or shrub can create dramatic shadows on surfaces behind the object. Use the light beam to create shadows, mark pathways, and driveways. Sconces light up walls to highlight textures.
- 5) When you plan your project, try to centrally locate the illuminator. Try to make the cables equal in length. If possible, keep runs to under 40 feet. If runs of over 40 feet are unavoidable, be aware that the fixtures on the shorter runs may appear brighter. To overcome this, plan on adding extra fibers on the longer run (example: for garden fixtures using 10 strands on the shorter runs, increase the cable to two runs of 10 strand or even one run of 30 strand for the longest run) You can adjust the light level by simply removing single fibers until the desired light level is achieved.

We hope this guide has helped you. Please feel free to call us if you have any questions about any of this or if something isn't covered. Thank you for coming to our site! We hope we can supply you with our fine products and be of service on this and any future projects you have.

# STARFIELD INSTALLATION



Installing a starfield is very easy but it can be time consuming. You will need the following: an illuminator, the cable, a drill with .75mm, 1mm and 1.5mm drill bits and any type of glue that will give you about 20 minutes of “work time”. You also **MUST** have access to the ceiling from the top and bottom to install the cable.



The first thing you will have to do is measure how large the starfield will be and where the illuminator will be located; you will have to service the illuminator eventually. These two things are critical for a successful project! An average starfield will have 4 or so “stars” per square foot. You can go higher or lower than this, but remember that you will probably want to double, or even triple, some of the strands to create a true night sky effect. If you have any trouble with how many stars (how much cable) you want, just contact us and we’ll be happy to help you..

After it’s been determined how many stars you want, you can figure out how long the cable needs to be. Remember that the cable is the most expensive part of a starfield and try to keep the runs to a minimum. Example: For a 10-foot by 10-foot square starfield we would want about 400-450 stars. We can go with three runs of cable, one 11-foot piece of 150-strand, one 7-foot piece and one 4-foot piece. You have to add the distance to the illuminator for each length of cable.

Working with two people, one below the ceiling and one above, you can now start the installation. You will have to strip the cable jacket from the strands of cable near where you will want to install the stars. You don’t have to strip the entire run of cable. The person below the ceiling will drill a hole where he/she feels a star should go, the person above will shove one, two or three strands (depending on the size hole drilled) of cable through the ceiling – about 3 inches is fine. Put a small amount of glue on the cable to hold it in place. Do not snip the cable at this time. Go to the next one and repeat. Try to leave a few strands from each cable free so that you can fill in any bare spots. Also, try and leave a path for you to work from and start from the furthest point of your starfield – leaving an exit for yourself. The illuminator may be placed in a ventilated attic but it will reduce the lamp life and the illuminator could get hot.

After you have completed the starfield, you may now paint the ceiling or prepare it in any way you wish. After this has been done, snip the strands with a scissors about ¼ inch from the ceiling. This will allow you to paint the ceiling again at a later date.

If you have a drop down ceiling, remove one of the ceiling tiles and work on an adjacent one. If you are working with sheetrock that hasn’t been installed yet, place the strands in the sheetrock like you would a regular ceiling, leaving a place for the mud to go. Leave strands for later when you can fill in these empty places.

Leave an 18 Inch loop of cable at the end of the illuminator in case you need to service it!



## Del Lighting Installation & Fiber Guide

*There are several rules that one must be aware of when working with fiber optic cable.*



**DO NOT** put the unjacketed fiber outside without protection it from Ultraviolet rays. Protection is required inside when the fibers will be subject to UV from skylights, windows or fluorescent lighting.

**DO NOT** bend the fiber at hard right angles.

**DO NOT** cut the end of the fiber without using a very sharp razor, scissors or a special hot knife. Measure the cable very carefully because once its cut that's it, you can't glue it back together. If you have any doubt, allow extra for your cut.

**DO NOT** put the ends of the fiber in liquids.

**DO NOT** drag the fiber around on a rough surface, as this will damage it.

### 1) *How tight can I bend the fiber?*

Generally, do not bend the fiber more than eight times the diameter. If it is bent in a very sharp angle you may create a spot that will result in a marked degradation of light output. Gentle bends will result in brighter light emissions.

### 2) *Do UV rays effect fiber optic cable?*

Yes, these rays will degrade the cable, effecting longevity and light output. You must protect the cable with either lexan tubing or a special PVC type jacket (all of our cable has this). Make sure your illuminator has UV filtering glass.

### 3) *How far will the cable illuminate?*

This really depends on many things. Because the cable loses about 3% of the light per meter, if you have a long run you must have a very bright illuminator (which is also very expensive!). If you can loop the cable with both ends in the illuminator, you may be able to illuminate up to 200 feet successfully. For a straight run you should consider 50 to 60 feet the maximum.

Another factor that plays a critical role is the ambient lighting. What looks to be bright around a pool will be drowned out in a shopping mall. For the former, a 75-watt illuminator will be fine, for the latter, several 150-watt illuminators may have to be used. Also, taking into account what was mentioned before about bending the cable, the more bending you put in the cable the bigger the illuminator or the shorter the run will have to be. The cable should have a straight run for the first few feet if at all possible.

4) Placing the cable properly in the illuminator can effect your results. Because the light is focused directly into the cable end, if the end of the cable is not straight some light will be lost. Be extra careful when positioning the cable in the illuminator. Don't push it too far in or you can break the color wheel. Don't have it too far out or you will lose a lot of light. Try to find the middle of the light cone inside the illuminator for the best results, but if you have a light meter, use that to find the best place for the cable.

5) Certain colors carry better over the cable and are perceived as being brighter by the human eye, i.e. yellow is much brighter than red. Take this into consideration when planning your project

## Installation Guide

There are some things you need to do to make sure your project performs as you expect it to. You must polish the cable end that goes into the illuminator. If you don't, the light output will be weak and you could actually melt the cable (one good reason to have a service loop in the cable!).

If you purchased a metal halide illuminator, there are a few things to know. Metal halide lamps take a few minute to get to full brightness. If you turn it off it won't turn back on right away. It gets VERY hot, don't touch it!

**To prepare the cable:** Trim the cable jacket from the fiber strands (be careful not to cut or damage the Teflon coating on the outside of the fiber strands. Leave approximately 4" of exposed fiber strands. If you nick the strands you WILL reduce the fibers ability to transmit light. Unscrew the large nut from the fiber port and place it on the cable. Place the exposed fiber strands into the fiber port, extending the fibers about 1/2" beyond the port and screw the nut back onto the port face. Tighten carefully, this will determine the light intensity, the tighter the cluster of fibers before the final cut, the more light will be transmitted. If the fiber ends are still loose you will have to use the reducers or extra fibers to "fill in" the empty space. To use the reducers, just place one inside the other until you get a tight fit on the cable. If it's still loose, place 4" lengths of fiber into the fiber ends sticking out of the fiber port until it is as tight as you can make it. Heat the blade of a utility knife or other sharp knife. Make sure the blade is quite hot before cutting the exposed fiber. Carefully trim the excess fiber in front of the port end (use the metal ring on the port end to do this and to make sure you don't melt the port). Do not use a sawing action; rocking back and forth is OK. Press down on the fiber and allow the hot blade to do all the cutting. A smooth cut (like ice smooth) will increase the light transmitted dramatically. After you cut your cable, it's very important that you prepare the end of the cable that will go into the illuminator port. You can do this quite easily by using 150 grit sandpaper to remove the rough edges of the cable. Sand the strands until they're fairly smooth. Finish the cable by using 600 grit wet/dry sandpaper. Wet the sandpaper and sand until the cable is mirror smooth - this will give you the maximum light output for your project!



## FIBER OPTIC ILLUMINATORS

Illuminators are the light source for your fiber optic system. We offer many different types for different uses. If you are looking to do a project in your pool, spa, garden or you're doing an exterior sign, then you will need an illuminator that is rated for **WET/DRY** conditions. Look for those words and color scheme below for the correct illuminators for your job. If you have a project that involves involved color changes and you want more control over the illuminators functions, then you'll need one with **DMX** capabilities. Look for this word and color scheme below for the correct illuminator. If you have a large project that will need more than one illuminator and you want them to change color at the same time, you will need to have them synchronized or use **DMX** units.

Model	Lamp	Power Watts	Special Features	Color Wheel	Wet	Dry	Use	Fiber Cap.	Price
<a href="#">S150-W</a>	MHOF-150W	150		No	Yes	Yes	Any	755	\$675.00
<a href="#">S150-5</a>	"	150	Wireless remote available	Yes	Yes	Yes	Any	755	\$700.00
<a href="#">S150-8</a>	"	150	Wireless remote available	Yes	Yes	Yes	Any	755	\$750.00
<a href="#">S150-WD</a>	"	150	Dimming Wheel	No	Yes	Yes	Any	755	\$750.00
<a href="#">SR150-8</a>	HQ1-R 150W	150	Adjustable speed	Yes	No	Yes	Indoor	850	\$675.00
<a href="#">ST150-W</a>	MHOF-150W	150		No	Yes	Yes	Outdoor	755	\$575.00
<a href="#">ST150-5</a>	"	150	Wireless remote available	Yes	Yes	Yes	Outdoor	755	\$600.00
<a href="#">ST150-8</a>	"	150	Wireless remote available	Yes	Yes	Yes	Outdoor	755	\$650.00
<a href="#">DEL150-8 DMX</a>	HQ1-T 150W	150	DMX Synchronized	Yes	Yes	Yes	Outdoor	500/600	\$1,199.00
<a href="#">DEL150-8 DMX M/S/T</a>	HQ1-R 150W	150	DMX 8 color wheel & twinkle wheel, shutter	Yes	No	Yes	Indoor	500/1000	\$1,199.00
<a href="#">S150-8DMX M/S</a>	"	150	DMX Synchronized	Yes	No	Yes	Indoor	750	\$679.00
<a href="#">S150-8DMX M/S/D</a>	"	150	DMX Synchronized Dimming/Shimmer/more	Yes	No	Yes	Indoor	750	\$725.00
<a href="#">DEL250-W</a>	MHR-250-N	250	DMX, color wheels	Yes	Yes	Yes	Any	500/600	\$1,439.00
<a href="#">I575-8DMX M/S/D</a>	MSD-575W	575W/220V	DMX Synchronized Dimming/twinkle/more	Yes	No	Yes	Indoor	3000	\$1,799.00
<a href="#">S100-8DMX</a>	Halogen H100	100	DMX	Yes	No	Yes	Indoor	500	\$399.00
<a href="#">SL-100</a>	MR16-100	100		Yes	Yes	Yes	Any	755	\$340.00
<a href="#">SR-100</a>	Halogen H100	100	Remote Control	Yes	No	Yes	Indoor	300	\$239.00
<a href="#">SR-50</a>	Halogen H50	50	Remote control	Yes	No	Yes	Indoor	325	\$159.00
<a href="#">SL-75</a>	MR16-75	75		Yes	Yes	Yes	Any	325	\$239.00
<a href="#">X20-75</a>	MR16-75	75	Available in 12VDC	Yes	No	Yes	Indoor	755	\$200.00
<a href="#">X20-75WD</a>	MR16-75	75	Dimming Wheel	Yes	No	Yes	Indoor	755	\$295.00

Our S and ST series 150-watt Metal Halide illuminators are 25% brighter than normal metal halide illuminators and produce a whiter light and a more vivid color than any competitive model on the market today. They are approved for wet or dry locations and come standard with a 6 foot nema cord or may be ordered hard-wired. Each model features a patented dichroic lamp reflector and aluminum heat sink. This special design eliminates ultra violet light while reducing heat output, thus creating the brightest, longest lamp life possible in metal halide technology. The new [I575 illuminator](#) produces over three times as much light as the best 150 watt metal halide on the market today! It will also handle 3,000 strands of .030" fiber, making it cost effective for large jobs.

## Indoor/Outdoor Illuminators

### **S150-W** 150-watt **Wet/Dry** illuminator **White light only**

**\$675.00**

The S150 is a high intensity, metal halide illuminator producing 15,000 lumens of intense light and will provide up to 10,000 hours of lamp life. It will handle up to 750 strands of cable. This unit comes with controls to turn unit on/off. A factory installed remote control is available for only \$225.00. A retrofit programmable 1-9 hr. Dusk to Dawn Light Sensor is also available for \$55.00

Dimensions: 6.50" H x 11"W x 12" L

Weight: 20 lbs

Warranty: Limited Lifetime (with \$175 fee after the first year)





**S150-5 150-watt Wet/Dry illuminator with 5 color wheel**

**\$700.00** Same as above with an 5 color - color wheel Now available synchronized

**S150-8 150-watt Wet/Dry illuminator with 8 color wheel**

**\$750.00** Same as above with an 8 color - color wheel Now available synchronized

**S150-WD 150-watt Wet/Dry illuminator with Dimming wheel**

**\$750.00** Same as above but with a dimming wheel. White light only.

**ST150-W 150-watt Wet/Dry TOWER illuminator White light only**

**\$575.00** The ST150 is a high intensity, metal halide illuminator producing 15,000 lumens of intense light and will provide up to 10,000 hours of lamp life. It will handle up to 750 strands of cable. Designed to blend into the shrubbery, it is mounted on the ground.

**(Primarily used for pool or garden illumination)**



**ST150-5 150-watt Wet/Dry TOWER illuminator with 5 color wheel**

**\$600.00** Same as above with an 5 color - color wheel A factory installed remote control is available for only \$225.00. A retrofit programmable 1-9 hr. Dusk to Dawn Light Sensor is also available for \$55.00

**ST150-8 150-watt Wet/Dry TOWER illuminator with 8 color wheel**

**\$650.00** Same as above with an 8 color - color wheel

**DEL 150-8 150-watt Wet/Dry DMX illuminator with 8 color Color Wheel**

**\$1,199.00** The DEL 150 unit is the only outdoor 150w DMX controlled unit that we offer. It has a 15,000 lumen lamp rated for 10,000 hours and a 500 fiber optic strand capacity (a 600 strand option is available)

**DEL 250-W 250-watt Wet/Dry illuminator White light only**

**\$1,439.00** The DEL 250 is a indoor/outdoor illuminator for large side emitting projects where light intensity is crucial. 4,000 hour lamp life.

**DEL 250-5 250-watt Wet/Dry illuminator 5 color Color Wheel**

**\$1,499.00** The DEL 250 is a indoor/outdoor illuminator for large side emitting projects where light intensity is crucial. 4,000 hour lamp life. DMX control option available.

**DEL 250-8 250-watt Wet/Dry illuminator 8 color Color Wheel**

**\$1,499.00** The DEL 250 is a indoor/outdoor illuminator for large side emitting projects where light intensity is crucial. 4,000 hour lamp life. DMX control option available.

**SL-75 75-watt Wet/Dry Illuminator with 5 color - color wheel**

**\$239.00** 75 watt halogen light source will last 4,000 hours. It has a 3/4 amp draw, 120V, 12V transformer and current spike protection. It comes with a 6 ft cord, on/off and color wheel switches. 225 strand cable ready, 350 option. 120VAC standard, 12VDC option  
Dimensions: 5"Hx5.75"WX9.25"L  
Warranty: Lifetime (with \$75 fee after the first year)

**(Primarily used for pool or garden illumination)**



**SL-100 100-watt Wet/Dry Illuminator with 5 color - color wheel**

**\$340.00** 100 watt halogen light source will last 1,500 hours. It has a 1 amp draw, 120V, 12V transformer and current spike protection. It comes with a 6 ft cord, on/off and color wheel switches. 755 strand cable 120VAC standard, 12VDC option  
Dimensions: 5"Hx5.75"WX9.25"L  
Warranty: Lifetime (with \$75 fee after the first year)

**(Primarily used for pool or garden illumination)**

# Indoor/Dry Location Illuminators

## **SR150-8 150-watt Dry illuminator with 8 color wheel**

**\$675.00** The SR150 is a high intensity, metal halide illuminator producing 12,500 lumens of intense light and providing up to 6,000 hours of lamp life. It will handle up to 850 strands of cable. This unit comes with wired remote to adjust color wheel speed.  
Dimensions: 7.75" H x 9.5"W x 12" L  
Weight: 20 lbs

## **DEL150-8 M/S/T 150-watt DMX illuminator with 8 color wheel, twinkle, shutter**

**\$1,199.00** 150W Metal Halide DMX capable high intensity illuminator suitable for both PMMA and glass fibers. Seven Diachroic colors + white plus twinkle function allows you to change colors and/or have a twinkle effect. Also has shutter for quick on/off and strobing.

## **S150-8DMX M/S 150-watt Dry illuminator with DMX Master/Slave unit**

**\$679.00** The S150-8DMX M/S is a high intensity illuminator that is fully programmable via DMX512. It is sound activated and can work in either a stand-alone mode or Master/Slave mode for large projects. It comes with 8 color-color wheel.



## **S150-8DMX M/S/D 150-watt Dry Dimming illuminator with DMX Master/Slave**

**\$725.00** The S150-8DMX M/S/D is a high intensity illuminator that is fully programmable via DMX512. It is also sound activated and can work in either a stand alone mode or Master/Slave mode for large projects.  
**It features slow-roll, dimming, shimmer and rainbow effects.**



## **I575-8DMX M/S/D 575-watt Dry Dimming illuminator with DMX Master/Slave**

**\$1,799.00** The I575-8DMX M/S/D is a 575W/220V high intensity illuminator that delivers 49,000 lumens! It is fully programmable via a DMX512 controller and can work in stand alone mode or Master/Slave mode for large projects. Unit capacity is 3000 strands of cable.  
Please call for more information  
**It features slow-roll, dimming, strobe, and twinkle effects.**



## **S100-8DMX M/S 100-watt Dry illuminator with DMX Master/Slave unit**

**\$319.00** The S100-8DMX M/S is a 100-watt halogen illuminator that is fully programmable via DMX512. It is sound activated and can work in either a stand-alone mode or Master/Slave mode for large projects. It comes with 8 color wheel that is speed adjustable

## **SR-100 100-watt Dry Illuminator with 4 color - color wheel**

**\$239.00** 100 watt halogen light source will last 1,500 hours. It has a 1 amp draw of 120V, 12V transformer and current spike protection. It comes with a 6 ft cord and remote control.  
300 strand cable capacity 120VAC standard, 230 VAC option  
Dimensions: 5"Hx5.75"Wx9.25"L

## **SR-50 50-watt Dry Illuminator with 4 color - color wheel**

**\$159.00** 50 watt halogen light source will last 4,000 hours. It has a 1 amp draw of 120V, 12V transformer and current spike protection. It comes with a 6 ft cord and remote control.  
325 strand cable capacity 120VAC standard, 230 VAC option  
Dimensions: 5"Hx5.75"Wx9.25"L

## **X20-75 SINGLE PORT 75-watt DRY illuminator with 5 color wheel**

**\$200.00** An interior illuminator with 5 color wheel, twinkle wheel available. 750 strand cable ready. 120VAC standard comes with a 6 foot cord or cable for hard-wiring. Comes with 1 rpm wheel, 1/2 rpm available. Available in 20-35-50-75 watt. Also in 12VDC (\$325 list price)



## **X20-75WD SINGLE PORT 75-watt DRY illuminator with dimming wheel**

**\$295.00** Same as above but white light only, with dimming wheel. Available in 20-35-50-75 watt. Also in 12VDC (\$355 list price)  
All other options are the same

## Illuminator Accessories

- Extra color wheel** Fits the 75-watt illuminators  
**\$20.00**
- Extra twinkle wheel** Fits the 75-watt illuminators  
**\$40.00**
- Extra twinkle wheel** Fits the 150-watt Metal Halide illuminators  
**\$75.00**
- Factory installed wireless remote** For S150, ST150 series  
**\$180.00**

## Illuminator Control Systems

### **DASHLIGHT Virtual Controller Gold**

- \$450.00** A lighting controller software that offers you complete control of your DMX512 illuminator and other equipment from your computer! Stand alone mode as well. Offers 3D viewer in real time, unlimited number of scenes

### **DASHLIGHT Virtual Controller**

- \$350.00** A lighting controller software that offers you complete control your DMX512 illuminator and other equipment from your computer! Offers 3D viewer in real time, unlimited number of scenes

### **DEL-3012 12 Channel DMX Control Panel**

- \$375.00** This is a DMX control panel that offers 12 channels and 24 scenes. It will handle up to 10 illuminators, providing you complete control over your system.

### **SRC-144 54 Channel DMX Control Panel**

- \$180.00** This is a DMX control panel that offers 54 channels. It will handle up to 10 illuminators, providing you complete control over your system.

### **DMX cable - 100'**

- \$34.99** Link the I575-8DMX M/S/D and S150-8DMX M/S/D to your DMX controller. 50' and 25' available.

Please call for availability. Pricing is subject to change without notice.

**Del Lighting, Inc**  
5331 Brewster  
San Antonio, TX 78233

(210) 590-5196 FAX: (210) 590-4957

[sales@del-lighting.com](mailto:sales@del-lighting.com)



# Fiber Optic Cable

## Side Emitting Stranded Cable (UV protected)

S-S25(w/tail) 25 Strand	\$2.60/ft
S-S30 30 Strand 3/8 diameter	\$2.99/ft
S-SO40 40 Strand 1/4x5/8 Oval	\$3.75/ft
S-SO75 75 Strand 1/4x5/8 Oval	\$5.75/ft
S-SB84 Braided* 84 Strand 12.6 mm	\$6.99/ft
S-SB126 Braided* 126 Strand 15.8 mm	\$9.50/ft

\* Braided cable is the brightest, strongest fiber optic cable on the market today.

## End Emitting Stranded Cable

E-S7 7 Strand 3.8 mm diameter	\$0.55/ft
E-S10 10 Strand 1/4"	-----
E-S25 25 Strand 7 mm	\$2.20/ft
E-S42 42 Strand 9 mm	-----
E-S50 50 Strand 9.4 mm	\$3.75/ft
E-S75 75 Strand 10.5 mm	\$4.59/ft
E-S84 84 Strand 11 mm	-----
E-S100 100 Strand 12 mm	-----
E-S126 126 Strand 13 mm	\$8.75/ft
E-S150 150 Strand 15mm diameter	\$9.25/ft
E-S225 225 Strand 15.5mm diameter	\$13.75/ft
E-S300 300 Strand 16mm diameter	\$17.50/ft

## Solid Core Cable

SCE-3 (3mm-1/8) End Emitting - 500 ft Roll	\$375.00/500ft Roll
SCE-3 End Emitting Orders under 500 ft	\$0.89/ft
SCE-6 (6mm-1/4) End Emitting - 30m Roll	\$6.55/ft
SCS-6UV <u>Side Emitting</u> with UV Protected Jacket	\$8.49/ft
SCE-10 (10mm-3/8) End Emitting - 30m Roll	\$8.49/ft
SCS-10UV <u>Side Emitting</u> with UV Protected Jacket	\$9.85/ft
SCE-11 (14 mm) End Emitting - 30m Roll	\$8.20/ft
SCS-11UV(14mm) <u>Side Emitting</u> UV Protected Jacket	\$10.30/ft
SCE-14 (17.3mm) End Emitting	\$10.25/ft
SCS-14UV (17.3mm) <u>Side Emitting</u> UV Jacket	\$12.50/ft

Solid core explained ~

SCE-3 (5mm) means: Solid Core, End Emitting 3mm active light diameter and 5mm outside diameter. If the "E" is replaced with an "S" that means Side Emitting cable

This code is used on all solid core cable.

**Most cable is available in 500 foot lengths. Please call for availability.**

All pricing is subject to change without notice.

Please call for availability on fiber optic cable. Not all cables or lengths are available 100% of the time.



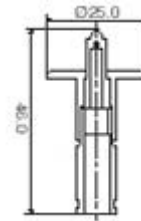
# End Piece Fixtures

These fixtures are designed to work best with SCE-6 solid core or E-S50 stranded cable



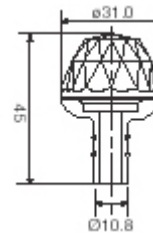
Micro Bezel  
\$5.49 each

R-150	OFE-60	2M
VBA-2X26° (FO-001)		
0.25	0.25	190
0.5	0.5	20
1.0	1.0	10
h (m)	d (M)	E <sub>max</sub> (lux)



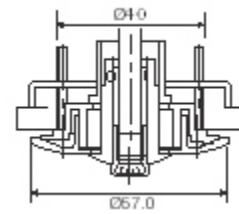
Diamond Love  
\$22.50 each

R-150	OFE-60	2M
VBA-2X8.5° (FO-002)		
0.5	0.15	750
1.0	0.3	200
1.5	0.45	100
h (m)	d (M)	E <sub>max</sub> (lux)



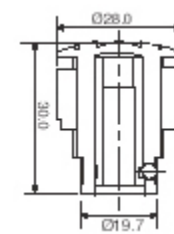
UFO  
\$12.50 each

R-150	OFE-60	2M
VBA-2X14° (FO-005)		
1.0	0.5	150
2.0	1.0	47
0.5	2.5	8
h (m)	d (M)	E <sub>max</sub> (lux)



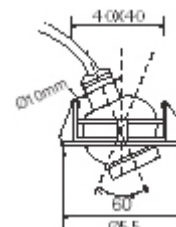
Saturn Ring  
\$5.00 each

R-150	OFE-60	2M
VBA-2X26° (FO-003)		
0.25	0.27	1300
0.5	0.55	300
1.0	1.1	95
h (m)	d (M)	E <sub>max</sub> (lux)



Bug Eye  
\$21.99 each

R-150	OFE-60	2M
VBA-2X14° (FO-005)		
1.0	0.5	150
2.0	1.0	47
0.5	2.5	8
h (m)	d (M)	E <sub>max</sub> (lux)





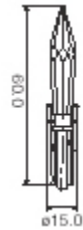
Neptune Ring  
\$9.49 each

R-150	OFE-60	2M
VBA=2X50° (FO-008)		
0.25	0.6	170
0.5	1.2	60
1.0	2.4	18
h (m)	d (M)	E <sub>max</sub> (lux)



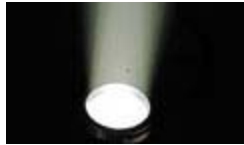
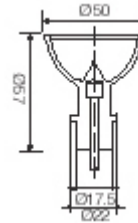
Jellyfish  
\$10.00 each

R-150	OFE-60	2M
VBA=2X42° (FO-009)		
0.25	0.45	200
0.5	0.9	40
1.0	1.8	14
h (m)	d (M)	E <sub>max</sub> (lux)



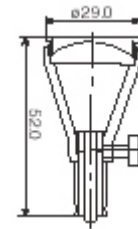
Silver Valley  
\$10.50 each

R-150	OFE-60	2M
VBA=2X4.0° (FO-010)		
1.0	0.13	400
2.0	0.27	196
5.0	0.68	37
h (m)	d (M)	E <sub>max</sub> (lux)



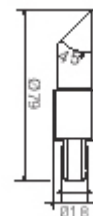
Bull Eye  
\$16.50 each

R-150	OFE-60	2M
VBA=2X7.4° (FO-011)		
1.0	0.25	1300
2.0	0.5	300
5.0	1.3	73
h (m)	d (M)	E <sub>max</sub> (lux)



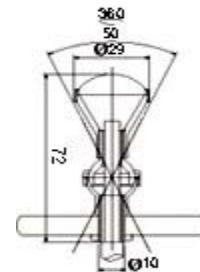
L-Shape  
\$46.00 each

R-150	OFE-60	2M
VBA=2X12.5° (FO-012)		
0.25	0.11	320
0.5	0.22	139
1.0	0.45	17
h (m)	d (M)	E <sub>max</sub> (lux)



Soleil-1  
\$67.00

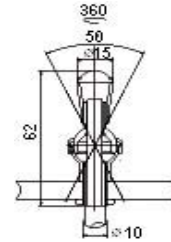
R-150	OFE-60	2M
VBA=2X7.5° (FO-025)		
1.0	1.0	4200
2.02	2.0	1320
5.04	5.0	360
h (m)	d (m)	E <sub>max</sub> (lux)





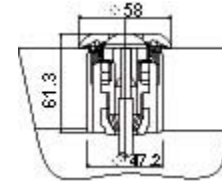
Soleil-2  
\$52.97

R-150	OFE-60	2M
VBA=2X14 ,(FO-026)		
1.03	1.0	660
2.06	2.0	165
5.15	5.0	68
h (m)	d (m)	E <sub>max</sub> (lux)



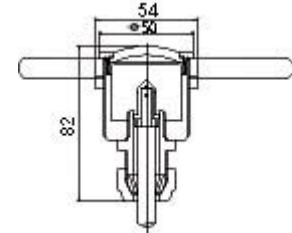
Early Bird  
\$38.74

R-150	OFE-60	2M
VBA=2X32 ,(FO-027)		
0.47	0.4	660
1.18	1.0	173
5.89	1.5	25
h (m)	d (m)	E <sub>max</sub> (lux)



Sun Bath  
\$70.54

R-150	OFE-60	2M
VBA=2X38 ,(FO-028)		
1.27	1.0	505
2.54	2.0	102
6.35	5.0	57
h (m)	d (m)	E <sub>max</sub> (lux)

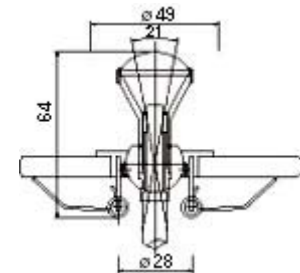


The Sun Bath will accept  
larger diameter cable



Golden Sun  
\$60.00

R-150	OFE-60	2M
VBA=2X27 ,(FO-024)		
1.9	1.0	1260
3.9	2.0	840
9.8	5.0	110
h (m)	d (m)	E <sub>max</sub> (lux)





# Ceiling Light Fixtures

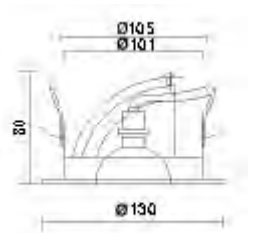
Unless noted otherwise, our ceiling fixtures normally handle SCE-6 or E-S50 cable. However, they can be modified to handle larger cable.



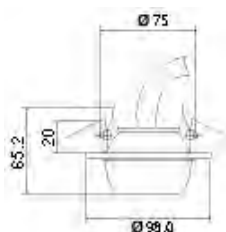
DLCL-3 \$17.00 each  
This fixture swivels



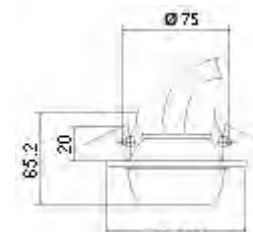
DLCL-4 \$38.00 each  
This fixture swivels



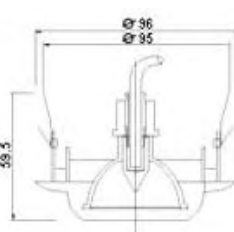
DLCL-5 \$34.50 each  
This fixture swivels



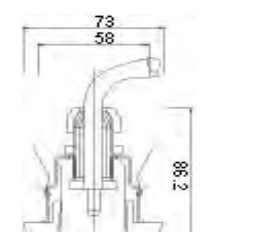
DLCL-6 \$34.50 each  
This fixture swivels



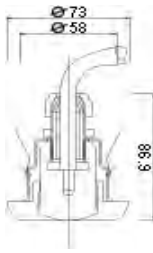
DLCL-7 \$38.00 each  
This fixture swivels



DLCL-8 \$20.00 each  
This fixture will handle up to 150 strands of cable. Comes w/compression fitting

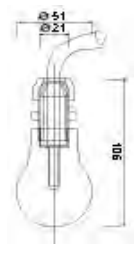






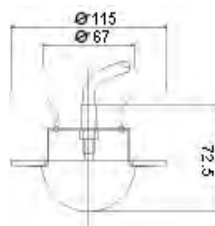
DLCL-9 \$20.00 each

This fixture will handle up to 150 strands of cable. Comes w/compression fitting

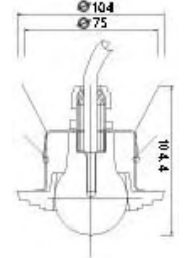


DLCL-11 \$21.50 each

This fixture looks like a light bulb and will handle up to 150 strands of cable. Comes w/compression fitting

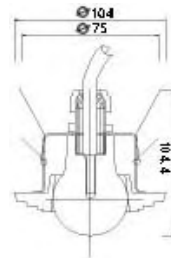


DLCL-12 \$13.50 each  
Glass w/mirror base



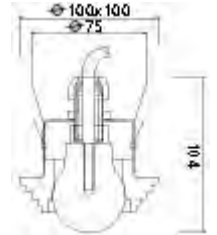
DLCL-13 \$27.50 each

This fixture will handle up to 150 strands of cable. Comes w/compression fitting



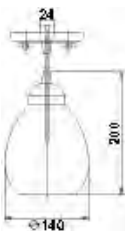
DLCL-14 \$27.50 each

This fixture will handle up to 150 strands of cable. Comes w/compression fitting

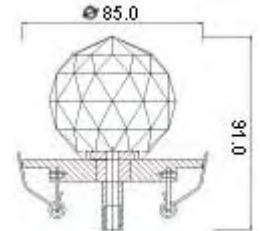
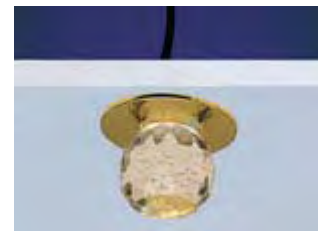


DLCL-15 \$27.50 each

This fixture will handle up to 150 strands of cable. Comes w/compression fitting



DLCL-16 \$19.50 each



DLCL-17 \$85.00 each

Please call for availability. Pricing is subject to change without notice.



# Landscape Fixtures

## Paver Lights



GL100  
\$6.00 each



GL105  
\$15.00 each



GL110  
\$20.00 each



FL405  
Feature Light  
75 Strand Capacity



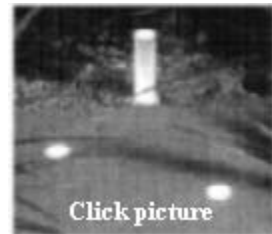
\$30.00 Each



SL200 Spotlight  
Flexible accent light  
with glass lens.  
75 strand capacity  
\$45.00 Each



SL205 Spotlight  
Flexible spotlight with  
glass lens.  
225 strand capacity  
\$110.00 Each



Lightstick -Path lights  
for concrete applications  
\$25.00 Each  
[\(Installation directions\)](#)



Please call for availability. Pricing is subject to change without notice.



# Pools and Spas

There are many applications for fiber optic lighting around - or even in - your pool or spa.



Side emitting cable highlighting the side of a pool.



The laminar effect. A glasslike rod of water. See [below](#) for details.



End emitting cable used in a public fountain.

## Spa/Hot Tub Fiber Optic Lighting Kits

These kits are an easy add-on to any spa. The fiber "frames" the spa just below the cabinets top rail. The light source is hung from the cabinet and plugged into a 110V GFCI outlet. The beauty of fiber optics is always visible, even with the cover on.

### FEATURES

- 75 watt, 5 color illuminator (4,000 hour lamp)
- On/Off power & color wheel control
- Simple DIY installation.
- Will fit spas up to 8 feet square

### Economy Kits

Model Price	Description	List
	35 feet of 20 strand fiber optic cable	Not Available
Del Lighting, Inc.	02/07	20 of 63

PLKSPA-E Attaches under the lip of the cabinet via staples or screws

### **Standard Kits**

<b>Model</b>	<b>Description</b>	<b>List Price</b>
PLKSPA-S	35 feet of 25 strand fiber optic cable Attaches to the cabinet via a white track	\$429.00

### **Deluxe Kits**

<b>Model</b>	<b>Description</b>	<b>List Price</b>
PLKSPA-D	35 feet of 40 strand fiber optic cable Attaches to the cabinet via a white track	\$479.00

## ***Deck/Dock/House Fiber Optic Lighting Kits***

These prepackaged kits can beautify any deck, patio or even a boat dock. The fiber optic light cable is an excellent alternative to rope or holiday lighting to outline a home. With no heat, electricity or bulbs to burn out, it can be a safe, beautiful addition.

### **FEATURES**

75 watt, 5 color illuminator (4,000 hour lamp)  
On/Off power & color wheel control  
Simple DIY installation.  
Will fit spas up to 8 feet square

### **Standard Kits**

Includes 20 strand fiber optic cable attached to the surface via a 1" tail on the cable. The tail is stapled, screwed or nailed to the surface.

<b>Model</b>	<b>Description</b>	<b>List Price</b>
PLK50	50' of fiber optic cable	\$409.00
PLK75	75' of fiber optic cable	\$459.00
LK100	100' of fiber optic cable	\$539.00
PLK125	125' of fiber optic cable	\$599.00
PLK150	150' of fiber optic cable	\$679.00

### **Deluxe Kits**

Includes 40 strand fiber optic cable attached to the surface via a white track. Deluxe kits are approximately 50% brighter than standard kits.

<b>Model</b>	<b>Description</b>	<b>List Price</b>
--------------	--------------------	-------------------

PLK50D	50' of fiber optic cable	\$519.00
PLK75D	75' of fiber optic cable	\$599.00
PLK100D	100' of fiber optic cable	\$649.00
PLK125D	125' of fiber optic cable	\$719.00
PLK150D	150' of fiber optic cable	\$779.00

## ***Pool Fiber End Light Kits***

Each fixture consists of our unique convex glass lens, O-ring, compression fitting, center device and either a vinyl liner housing or non-vinyl liner housing. The more fibers in the fixture, the brighter the results. The finished color of the pool is also very important, white is best, black is worst. Always allow an extra 18" for installation into the light box. Also the shorter the run and the more fixtures the brighter the end result.

*\*Custom lengths available upon request\**

<b>MODEL</b>	<b>DESCRIPTION</b>	<b>LIST PRICE</b>
ELK75-8	8ft of 75 stand cable comes w/lens & housing	\$195.00
ELK75-10	10ft of 75 stand cable comes w/lens & housing	\$205.00
ELK75-12	12ft of 75 stand cable comes w/lens & housing	\$215.00
ELK150-8	8ft of 150 strand cable comes w/lens & housing	\$240.00
ELK150-10	10ft of 150 strand cable comes w/lens & housing	\$260.00
ELK150-12	12ft of 150 strand cable comes w/lens & housing	\$280.00
ELK150-14	14ft of 150 strand cable comes w/lens & housing	\$305.00
ELK225-8	8ft of 225 strand cable comes w/lens & housing	\$280.00
ELK225-10	10ft of 225 strand cable comes w/lens & housing	\$315.00
ELK225-12	12ft of 225 strand cable comes w/lens & housing	\$350.00
ELK225-14	14ft of 225 strand cable comes w/lens & housing	\$380.00
ELK225-16	16ft of 225 strand cable comes w/lens & housing	\$415.00
ELK300-8	8ft of 300 strand cable comes w/lens & housing	\$325.00
ELK300-10	10ft of 300 strand cable comes w/lens & housing	\$370.00
ELK300-12	12ft of 300 strand cable comes w/lens & housing	\$415.00
ELK300-14	14ft of 300 strand cable comes w/lens & housing	\$455.00
ELK300-16	16ft of 300 strand cable comes w/lens & housing	\$500.00
ELK300-18	18ft of 300 strand cable comes w/lens & housing	\$545.00
ELK300-20	20ft of 300 strand cable comes w/lens & housing	\$585.00

## ***Deluxe Inground Pool Fiber Optic Lighting Kits***

These kits include 40 strand fiber optic cable attached to the pool via a PVC (liner lock) track. The track is snapped into the pool coping over the liner bead. A flexible, white rubber track is also supplied for installation onto a walk-in step. The rubber track is attached to the step via a specially formulated two-sided tape. Each kit includes a 6 ft over-the-deck track to protect the cable. The kit has sufficient cable to install the illuminator approximately 10 feet from the pool.

All kits are available for non-vinyl pools such as gunite and fiberglass. Just designate the order Non-Vinyl (NV). Instead of the PVC track, a flexible, rubber track is supplied. The track is attached to the pool wall above the tile line via a specially formulated two-sided tape. A bead of silicone must then be applied to the top and bottom of the track (silicone not supplied).

### Features

- 75 watt, 5 color illuminator
- On/off power & color wheel control
- Simple D.I.Y. installation
- Custom kits available upon request on all kits

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST PRICE</u>
PLK12-24VD	100' cable kit for vinyl pools up to 80 ft in circumference	\$799.00
PLK14-28VD	110' cable kit for vinyl pools up to 90 ft in circumference	\$849.00
PLK16-32VD	125' cable kit for vinyl pools up to 105 ft in circumference	\$899.00
PLK18-36VD	135' cable kit for vinyl pools up to 115ft in circumference	\$949.00
PLK20-40VD	150' cable kit for vinyl pools up to 130 ft in circumference	\$999.00



## *Fiber Optic Waterfalls (Fiberfall)*

Features include: 6" straight, concave or convex extended ledge, 3/16" waterflow opening holes spaced 1" (water drops 1/16" for raindrops effects). Available in white, grey or black.

### Free Flow Models

<u>MODEL #</u>	<u>DESCRIPTION</u>	<u># of slip inlets and Size</u>	<u>LIST PRICE w/15' Cable</u>	<u>LIST PRICE w/25' Cable</u>	<u>LIST PR w/40' Ca</u>
WF6012L	12" Free flow	1-1"	\$650.00	\$675.00	\$700.0
WF6018L	18" Free flow	1-1/1/2"	\$675.00	\$730.00	\$810.0
WF6024L	24" Free flow	1-1 1/2"	\$735.00	\$790.00	\$875.0
WF6036L	36" Free flow	1-1 1/2"	\$920.00	\$1025.00	\$1190.0
WF6048L	48" Free flow	2-1/1/2"	\$1120.00	\$1225.00	\$1395.0

### Water Drop Models

<u>MODEL#</u>	<u>DESCRIPTION</u>	<u># of slip inlets and Size</u>	<u>LIST PRICE w/15' Cable</u>	<u>LIST PRICE w/25' Cable</u>	<u>LIST PR w/40' Ca</u>
WF6012LD	12" Waterdrops	1-1"	\$650.00	\$675.00	\$700.0
WF6018LD	18" Waterdrops	1-1/1/2"	\$675.00	\$730.00	\$810.0
WF6024LD	24" Waterdrops	1-1 1/2"	\$735.00	\$790.00	\$875.0
WF6036LD	36" Waterdrops	1-1 1/2"	\$920.00	\$1025.00	\$1190.
WF6048LD	48" Waterdrops	2-1/1/2"	\$1120.00	\$1225.00	\$1395.

## ***Water Crystal Water Effects***

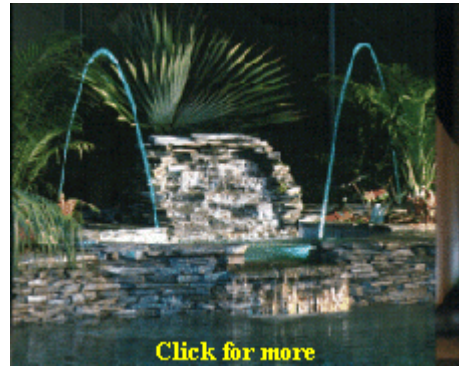
The WaterCrystal collection of water effects is designed for new or renovated residential pools or spas. With WaterCrystal, you can add beautiful water effects to finish off decks, shallows, walls and raised pool areas. Constructed of the highest quality materials, WaterCrystal products add professional looking fountain effects to backyard pool and spa environments. This creates more fun for swimmers, more eye catching appeal for the yard or garden, and spectacular nighttime effects.



Foam effects produce a mound of frothy, aerated water that provides substantial visual sound impact in shallow areas. For evening enjoyment, consider the illuminated Foam Jet. Fiber optics connected to a 150-watt illuminator create a luminous glow.



Illuminated Foam Jet WMO110  
Constructed of machine cast bronze, copper lexan and stainless steel  
\$865 Gunite  
Please call for details



The laminar effect is a high tech illusion. The water is so well controlled it creates a continuous glasslike rod of water that hits the water virtually sound and splash free. When fiber optics are added and connected to a 150-watt illuminator, it produces breathtaking evening light shows as the light changes through a band of brilliant colors.



Laminar WMV107  
Constructed of high density polyethylene, PVC and stainless steel.  
\$1275 each  
Please call for details

## ***Parts & Accessories***

### **R1503**

\$55.00 each

Retrofit programmable 1-9 hour dusk to dawn light sensor

### [FTCGLENS-V](#)

\$95.00 each

Underwater convex glass lens fixture for vinyl pools.  
300 strand capacity

### [FTCGLENS-F/G](#)

\$95.00 each

Underwater convex glass lens fixture for fiberglass pools,gunite pools, spas or fountains. 300 strand capacity

### **Fiberlite 1-5**

Slip style pinpoint spa lens (diamond cut).

\$1.15 each Accepts up to 5 individual fibers

**Fiberlite 1-30** Threaded hex style pinpoint spa lens.  
Accepts up to 30 individual fibers

\$2.50 each

**Track-A/G** A white, two-piece PVC track that attaches to the inside bottom  
lip of the above ground pool top rail. Accepts 30 strand fiber.  
Pack = 4 feet.

\$1.20 /ft

**Track30-Tail** A white, one-piece PVC track that comes with a tail. Tail can be snapped  
into any recess. Ideal for retrofitting an inground vinyl pool.  
Accepts 30 strand cable. Pack = 4 feet.

\$2.60 /4 ft

**Track40-Tail** A white, one-piece PVC track that comes with a tail. Tail can be  
snapped into any recess. Ideal for retrofitting an inground vinyl pool.  
Accepts 40 or 75 strand oval cable. Pack = 4 feet.

\$2.60 /4 ft

**DBLT** A white two-piece flexible PVC belt used to protect cable over an  
exposed surface such as a pool deck. The cable is hidden and  
protected. Pack = 6 feet.

\$20.00 / 6 feet

**FLEX30** Flexible white rubber track. Accepts 30 strand cable.  
Ideal for gunite, fiberglass pools or any curved surface,

\$0.65 / foot

**FLEX40** Flexible white rubber track. Accepts 40 & 75 strand cable.  
Ideal for gunite, fiberglass pools or any curved surface,

\$0.90 / foot

**MC-L** Large clear mounting clips. Accepts 40 & 75 strand cable.

\$0.40 each

**MC-S** Small clear mounting clips. Accepts 30 strand cable

\$0.35 each

All pricing is subject to change without notice.

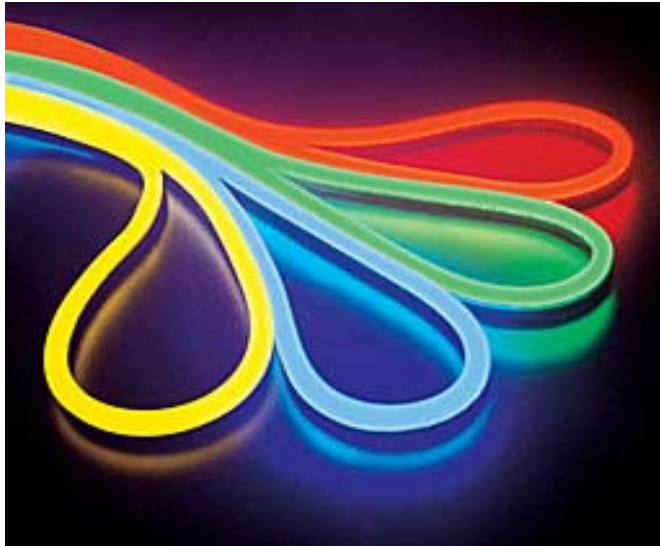
**Del Lighting**  
P.O. Box 2914  
UNIVERSAL City, TX 78148

**(210) 590-5196 FAX: (210) 590-4957**  
[sales@del-lighting.com](mailto:sales@del-lighting.com)





# Flexible LED Neon



Though neon has long been the mainstream of the outdoor linear lighting, there still exist unsolved problems. These include complicated installation, fragile nature, potential shock hazard, high maintenance cost and high power consumption. .

With more than 2 years work on research and development, we are proud to announce that we are introducing a perfect substitute for neon. There is no observable difference between the glass neon and flexible LED neon unless you hold the LEDNEON in your hands. You can bend it in whatever angle you wish, installation takes minutes and most important, there are no hot spots.

ITEM NO.	LENGTH	DIMENSION	LED SPACING	TOTAL NO. OF LED	TOTAL WATTS	NO.OF LED PER UNIT	CUTTING UNIT	WATTS PER METER OR FOOT	LED COLOR	MAX. LOADING LENGTH	LED LIFE
LN-F X-10-240V	9.1m	12X26MM	0.5"	720	57.6W	120	1.52M	6.3W/M	R,Y	90M (With 5A converter) 180M (With 10A converter)	100,000 HRS
	10.0m			792	79.2W	72	0.91M	7.9W/M	G,B		
LN-F X-50-240V	48.8m	12X26MM	0.5"	3840	307.2W	120	1.52M	6.3W/M	R,Y		
	49.4m			3888	388.8W	72	0.91M	7.9W/M	G,B		
LN-F X-30-120V	30FT	12X26MM	0.5"	720	57.6W	60	2.5FT	1.92W/FT	R,Y	150FT (With 5A converter) 300FT (With 10A converter)	100,000 HRS
				720	72W	36	1.5FT	2.4W/FT	G,B		
LN-F X-150-120V	150FT	12X26MM	0.5"	3600	288W	60	2.5FT	1.92W/FT	R,Y		
				3600	360W	36	1.5FT	2.4W/FT	G,B		
LN-F X-30-24V	300FT	12X26MM	0.5"	720	86.4W	8	1/3FT	2.88W/FT	R,Y	30FT (With 5A converter) 50FT (With 10A converter)	
				720	86.4W	8	1/4FT	2.88W/FT	G,B		

Recommended storage & operating temperature: -20°C to 60°C, 100% humidity.

**Del Lighting**  
**13550 O'CONNOR Rd. STE 9**  
**SAN ANTONIO, TX 78233**  
**(210) 590-5196 FAX: (210) 590-4957**  
[sales@del-lighting.com](mailto:sales@del-lighting.com)

Updated 6/24/04

# LED Lighting

LEDs are widely used in precision industry and instrumental lighting. Due to its unique advantage in low energy consumption and low surface temperature, LEDs are one of the safest decorative lighting products for lighting.

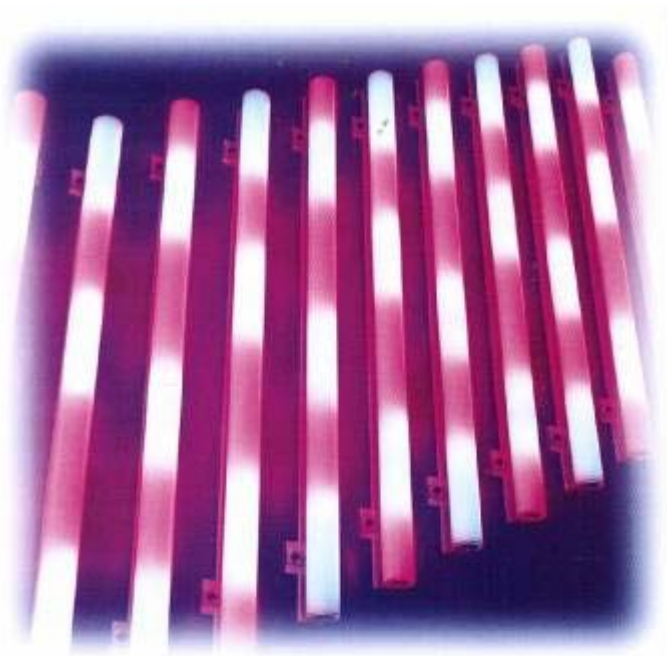
## LED Border Light



Our LED Border light takes the place of neon border lighting. We use super ultra-bright LEDs as the light source (which have a rated life of up to 100,000 hours). These tubes are high output, use easy mounting systems, are extremely reliable and are user friendly.

We offer pre-made tubes that are 1 meter long or DIY kits that can be purchased for your exact needs. Available in 120V or 12V in blue, white, green, red, yellow and orange. Cutting points for the DIY kits are 2" for the 12V and 20" for the 120V. Prices vary depending on color, please call for pricing.

## LED Neon Tube



Just as in the LED Border tubes, we use ultra-bright LEDs in our LED Neon lights. Unlike the LED Border tubes, these units offer full color and seven-color microprocessor driven tube lighting effects.

### Features

SDEL-109L offers a 24 bit (full color) range of color mixing

SDEL-109L is a one meter tube that offers seven-color fading, chasing, strobing and many other effects in its large library of dynamic programs.

Designed and rated for permanent indoor and outdoor use.

Available controllers function in stand-alone mode or as DMX interface for integrating tube systems into existing DMX networks.



Convenient tube connection system for daisy-chaining multiple tubes together.

Easy mounting system using included brackets and track.

Long-life, low power consumption, low heat, low maintenance and bright output.

## Specifications

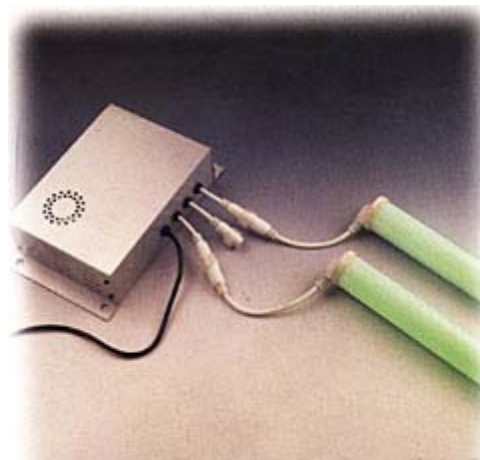
Color range:	16.7 million (24 bit) RGB colors
Source:	High intensity LEDs-144 per 1 meter tube
Beam angle:	250 degrees
Housing:	Aluminum
Tube Material:	Milky white optically diffused poly carbonate
Linkage max:	(1M tube) 4,000 tubes
Tube dimensions:	L33cm X W19cm X 8.5cm
Listings:	UL & cUL, CE, SAA, T-Mark pending
MTFB:	>100,000

## Electrical Specifications

Power requirement:	24VDC
Power consumption:	Max=16.8Watts/meter
Power supply:	SDEL-109 Power supply
Temperature range:	-20degreesF to 122 degreesF (-29C to 50C)
Humidity range:	0-95% non-condensing humidity



Some examples of what is possible with LED Neon Tube!

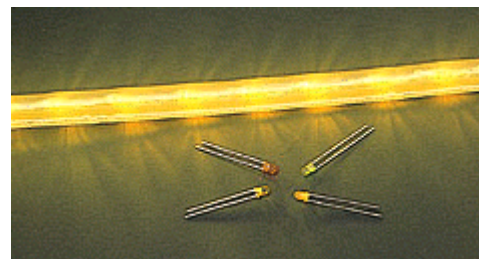
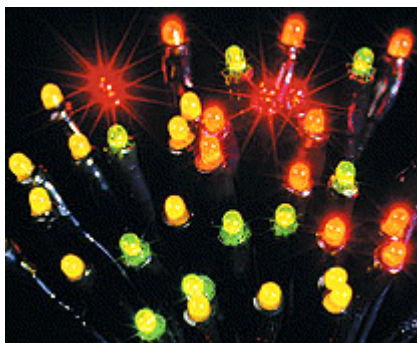
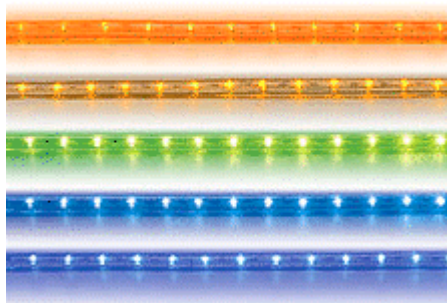


SDL-109C Controller

# LED Rope Light

Led rope lighting offers a wonderful solution to high end flexible lighting. It is ultra-bright and long lasting with very little maintenance.

Available in 2 wire for a constant light source or 3 wire for flashing or chasing effects.



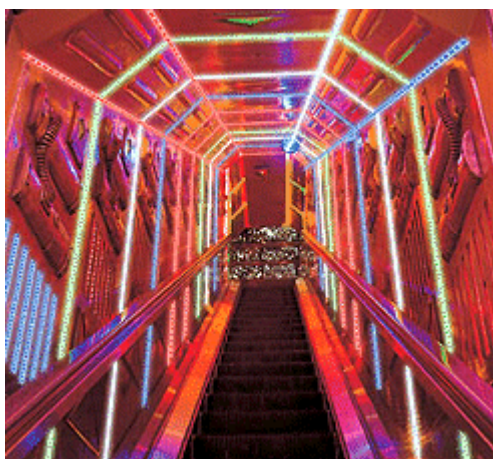
## Specifications

LED-2W150-120V (or 12VDC)  
(LED rope, 150 feet, 2 wire, 120 volt)

LED-3W150-120V (or 12VDC)  
(LED rope, 150 feet, 3 wire, 120 volt)

Length: 150 feet  
Diameter: 13mm  
Bulb spacing: 25.4mm  
No. of bulbs: 1800 Pcs  
Watts: 72W for R, Y  
120W for B,W,G

Unit length: 5' R,Y; 3' B,W,G  
Bulb life: 100,000 hours



Red



Clear



Blue



Yellowish Green



Yellow



Orange

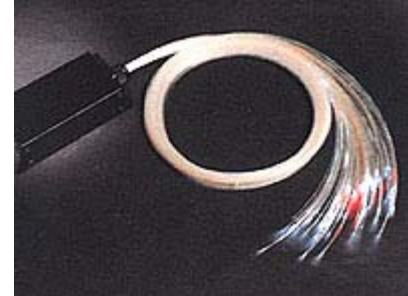


Green





# LED Mini-light Kits



Highly efficient, cool running and extremely long lasting LED lights are used in this illuminator. It is coupled with factory prepared multi-strand cable. It is perfect for small star fields or other small applications. Very safe as well!

These kits can be used for small area lighting, small signs, partial ceiling/wall decoration. Because these kits are powered by 9VDC you can decorate vehicles, boats, planes... etc. It can be used for table/desk top decor, furniture highlighter, precious or small item lighting. Use it to complement your regular light engine.

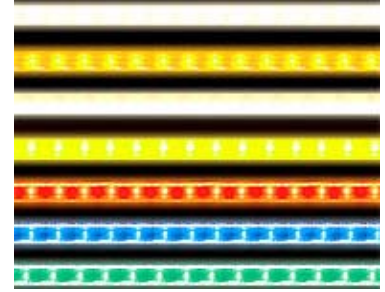
## Specifications

Power: DC 9V 500mA  
 Bulb Type: LED  
 Bulb Life: 200,000 hours Size: L178 X W80 X H51mm  
 Weight: 0.65Kg

## Features

Multicolor display: Blue to White to Blue (LEDs vary brightness from dim to bright and back again)  
 Extremely safe: Low voltage input.  
 Compact: Suitable for small area application.  
 LED bulbs (inside the illuminator) are known for their long life.  
 Silent operation: Great for lighting decor in silent environment.

<u>Model</u>	<u>Description</u>	<u>Cost</u>
LED-594	LED Mini-light engine w/o DC Adaptor	\$70.00
LED-594-9VDC	LED Mini-light engine with 9VDC Adaptor	\$75.00
LED-594-2M	LED Mini-light engine w/2 meter bundle of 155 strands	\$139.00



## Mini-light rope lighting



**Del Lighting offers one of the best selling decorative lighting products that can truly glow around the world. Our Mini-light rope lighting is durable, economical, versatile and simply beautiful. Del Lighting Mini-lights can be used on their own or can be transformed into as many shapes and designs as your imagination allows.**

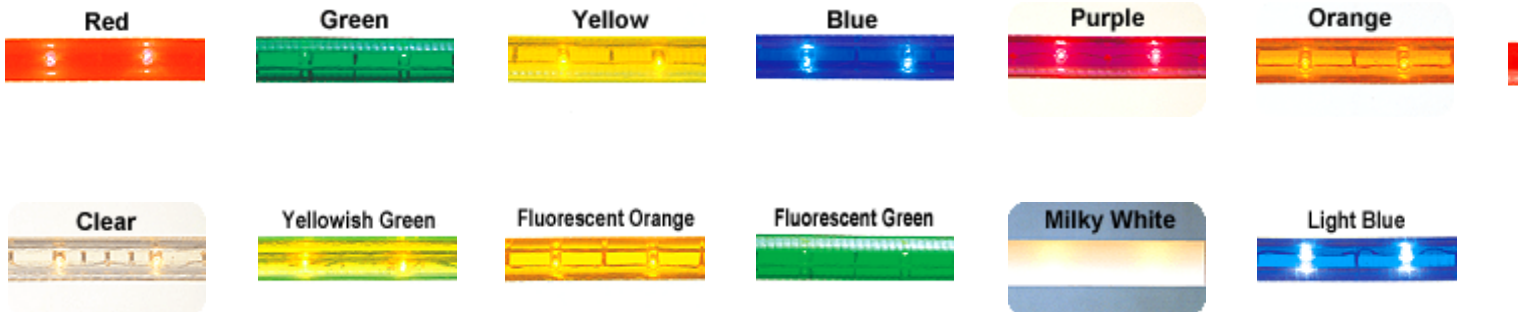


### Two Wire mini-light rope lighting

Del Lighting offers 3/8" and 1/2" two wire rope lighting, 12VDC and 120VAC. Available in red, green, yellow, blue, purple, orange, pink, clear, yellowish green, fluorescent orange, fluorescent green, milky white and light blue. Each 150 foot roll comes with five installation kits. This include splicing and cable materials.

Pricing is \$140 per 150' roll.

### Available colors

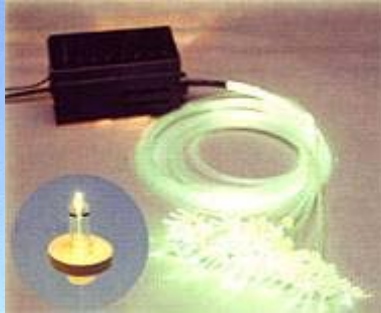


# Do-It-Yourself Kits

These kits are similar to the LED mini-light system, but they utilize a conventional illuminator. The cable has been prepared for you and only needs to be plugged into the illuminator. The kits come with varied lengths of cable for your convenience.



An example of a pre-assembled fiber bundle



The DIY20 kit



The DIY35 kit.



The DIY50 DMX kit

<u>Model</u>	<u>Description</u>
<b>DIY20</b> \$182.00	20-watt halogen lamp, 4 color-color wheel, 100 strands of cable. 25 are 2m, 25 are 3m, 25 are 4m and 25 are 5m in length.
<b>DIY35</b> \$335.00	35-watt halogen lamp, 4 color-color wheel, 120 strands of 1mm fiber, 2 meters long. Like the DIY20, this comes with end pieces.
<b>DIY50 DMX</b> \$745.00	50-watt DMX illuminator, 8 color-color wheel. This comes with: 8 strings of 31.5" fibers 6 strings of 47.25" fibers 6 strings of 70.5" fibers 6 strings of 86.5" fibers 6 strings of 98.5" fibers

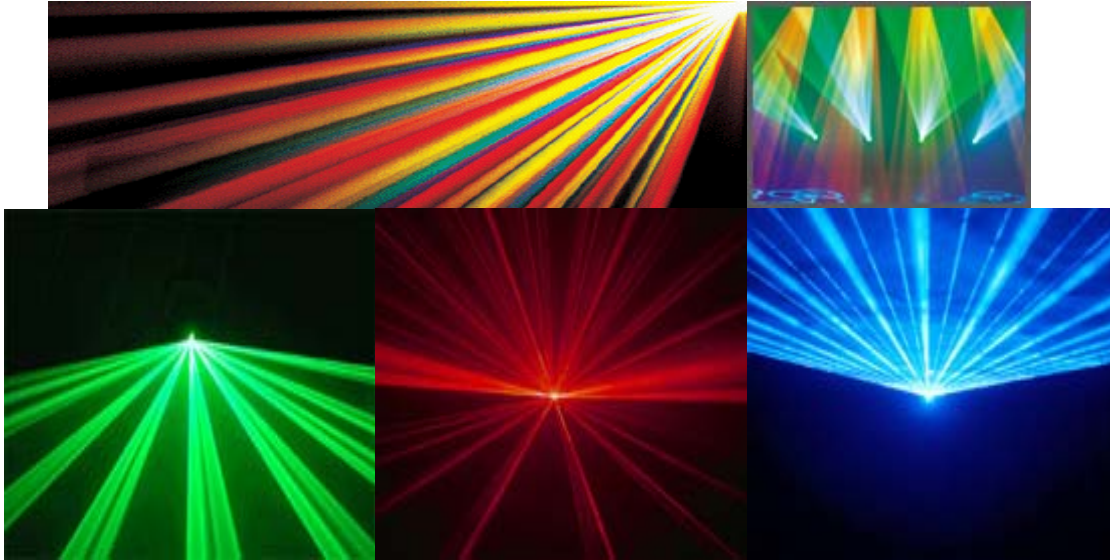
All pricing is subject to change without notice





# Lasers

## DJ Series



Del Lighting/PULSE DJ Series of laser products is by far the most versatile and expansive.

Products in this series range from sound active, auto play stand-alone, linkable, and full featured semi-professional projectors.

Classified as the DJ Series these units were designed for not just DJ's but nightclubs, bars, bands, schools, bowling centers, and virtually any venue where 4.95mW of laser is required. With these projectors no variance from the FDA is required to operate them. This makes these projectors attractive to mobile DJ's as well.

From the Star Series to the Interceptor Series to the pinnacle of performance and functionality of the New Stinger Series OmniSistem PULSE has every leading laser product at every price. Whether you are on a limited budget or have a little extra to invest in the very best our quality and performance exceeds expectations at all levels.

If you are considering a laser purchase there is no need to look any further. Del Lighting/PULSE has over 31 laser projectors ranging from 4.95mW to 5-Watts. Trust your investment to the recognized leading entertainment laser products company in the US.

## Semi Pro Series :: Stinger Semi Pro

Stinger HPS come locked and loaded with 25 of the most favorite aerial laser effects. Couple that with X, Y, Z-axis rotation, X-Axis Gain and Y-Axis Offset and the Stinger HPS can create hundreds of variations of the 25 base patterns. Select able with DMX or with sound activation via the LED Mode menu system these effects pulse, twist, and turn with the beat of the music.

The extra wide scan angle makes for incredibly wide aerial laser scans. The Stinger's images are not intended for patterns on the wall. The design of the Stinger was specifically intended for raw aerial performance that is not compromised by constraints of systems designed for on screen images.

Stinger HPS can easily target bounce mirrors and remote effects as well as strategically place laser effects for the total aerial laser beam and scanning show!



[Stinger 1B](#)



[Stinger 1G](#)

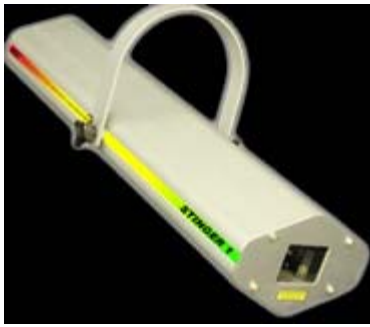


[Stinger 1R](#)



[Stinger 1Y](#)

**Stinger HPS is the first release of the revolutionary new L.A.D. technologies exclusive to Del Lighting Laser Division. Stinger HPS is the first US designed Asian manufactured high power laser projector that has been FDA Certified.**



[Stinger 1MC](#)

Multi-Color Units Only --- Stinger HPS offers features for color control once reserved for incredibly more expensive laser devices. There are three modes of color control on the Stinger HPS MC units. Channel 1 is individual control over both the Red and Green lasers. Full value on channel 1 enables fader 2, which is multi-color mode rate control, which enables adjustments to the modulation cycles.

## Club II



[Club II](#)

## Ameba II

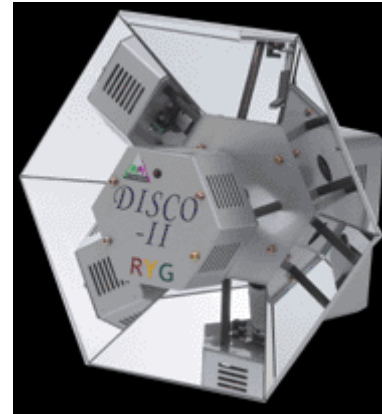


## Q-Beam Series



[Q-Beam](#)

## Disco II



## Magic Box MC



[Magic Box](#)

## Rocket I & II



[Rocket Laser](#)

## Fog Machines



[Click for more Smart Fog](#)



[Click for more Misty](#)

# Planet Galaxy **PULSE**

LASER PRODUCTS DIVISION

OmniStar

## **SPECTACULAR LASER GALACTIC EFFECT!**

First of its kind, the Red Planet Galaxy Ball provides huge floor coverage and comes with 56 4.95mW RED laser diodes.

Supplied with controller for rotation direction (bi-directional rotation possible) and flashing speed of laser sources.

Mounting Base: 15" x 9 3/4" x 3 3/4"

Sphere diameter: 11"

Height (base to top of sphere): 12"



Laser Cloth is a flame retardant silk-like fabric extremely light weight and airy. Developed as a surface for laser projection, this fabric looks like smoke when rear illuminated. It is often used as a display cloth in showroom windows, costume applications and as a rear projector effects material in theatrical productions. When front projected, a sparkler effect is created. A bright image with dancing points of light. It has a silver sheen and is semi-transparent. Laser Cloth is 9'10" (3 m) wide and is available for \$46.22 per yard or in bolt lengths of 109 yards (100 m) for \$4,225.00

8'x9.6' finished with grommets and ties, hem and pipe pocket is \$325.00. Other sizes or custom sizes available. Please call for quote.

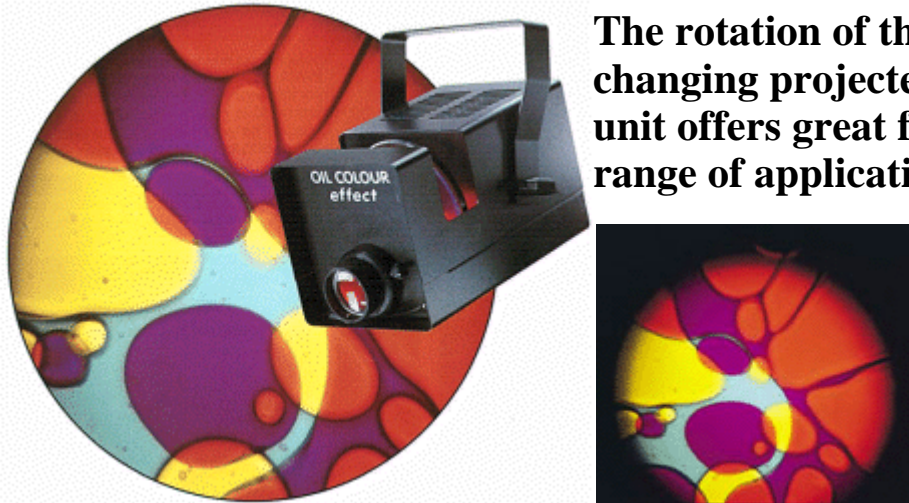


## Projectors-UV Lighting- Par Cans

These highly versatile units are designed for choreographic, decorative and promotional projections. Each unit creates an unusual exclusive effect which constantly moves and changes shape and color continually.

### Oil Colour

The rotation of the oil-wheel creates ever changing projected color patterns. The unit offers great flexibility and a wide range of applications.



Price per unit: \$299

### Construction:

Metal body, epoxy powder finish.  
Mounted with adjustable steel bracket  
Easy lamp access

#### Technical features:

US model: 117V 60 Hz  
Lampholder GX 5,3  
Adjustable focus  
Brilliant colours  
Power cable with plug fitted  
Safety mains external fuse  
Manufactured in compliance with CE norms

**Lamp:** 13.8V 85W DED dichroic

**Dimensions and Weight:**  
8x11.2x10 in.  
13.2 lbs.

**Code:**  
US: 117V 60Hz - W384

### Hypnotic Light

As well as the extraordinary color effect created by the fiber optics and moving colors of the Hypnotic projectors, it's also possible to project a pro format (6x6cm.) slide, easily fitted in the special frame supplied.

with the fixture. The rotation speed of the beam and the slide is controlled in both directions.



**Technical features:**

- Special multi-coloured glass wheel.
- Adjustable focus system.
- High quality micromotors
- 6x6 slide frame fitted
- Power cable with CEI 20/22 type plug
- Safety mains external fuse
- Manufactured in compliance with CE norms

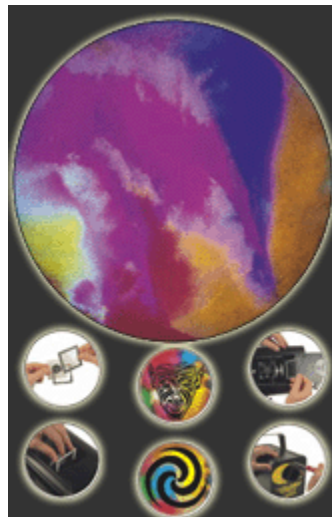
**Lamps:**

- HYPNOTIC** - 100W 12V (1500h/life)
- HYPNOTIC HQI** - 150W HQI-T (13,000 lumens ~ 4200K, 6,000 hours)

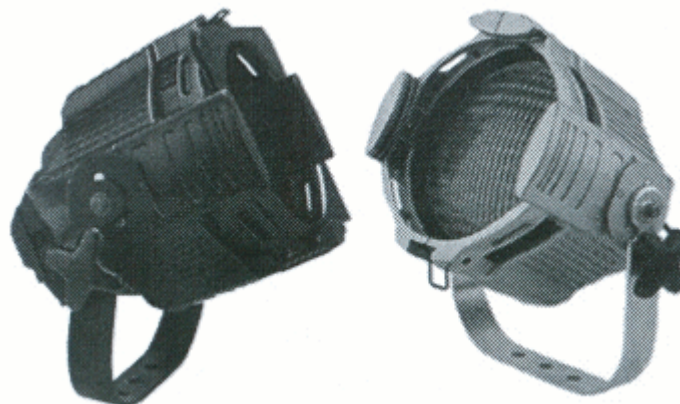
**HYPNOTIC**  
Price per unit: \$599

**Dimensions and Weight:**  
**10.6x12.5x9.4 in**  
**16.5 lbs.**

**HYPNOTIC HQI**  
Price per unit: \$674



## Par Cans



Multi Par 575 Black with 4 lenses (very narrow spot, narrow spot, medium flood, wide flood)

575W - Available in White, Black and Silver \$130.00 each

Requires Osram lamp HPL120V575W \$ 95.00 each

# UV Lighting

## UV 400W Panoramic



**Code:**  
US: 117V 60Hz - W864

**Description:**  
UV fixture suited to large rooms, illuminates a vast area evenly.

**Technical specifications:**

**Construction:**

Metal body, epoxy powder finish  
Mounted with adjustable steel bracket  
Easy lamp access

**Technical specifications:**

Lampholder: E/40 ceramic.  
100cm power cable to CEI 20/22 norms;  
Safety mains external fuse  
Safety mesh for lamp protection;  
Built-in power factor correction system  
Manufactured in compliance with CE norm

**Lamp:400W UV**

**Dimensions and Weight:**  
15.2 x 6 x 23.6 in.  
29 lbs.



## UV 400W Spot

**Code:**  
US: 117V 60Hz - W860 (220V fixture w/o lamp)  
W860A (110V fixture w/o lamp)  
W860AB (110V fixture w/lamp)  
W860B (220V fixture w/lamp)  
W865 (lamp only)

**Description:**  
UV spot for wide coverage.

**Technical specifications:**

**Construction:**

Metal body, epoxy powder finish.  
Mounted with adjustable steel bracket  
Easy lamp access

**Technical specifications:**

Lampholder: E/40 ceramic.ù  
100cm power cable to CEI 20/22 norms;  
Safety mains external fuse  
Safety mesh for lamp protection;  
Built-in power factor correction system  
Manufactured in compliance with CE norms

**Lamp: 400W UV**

**Dimensions and Weight:**  
15.2x14.4x14.4 in.  
26.8 lbs.

## Black Lantern

**Code:**  
US: 117V 60Hz - W862



## Architectural Lighting



### Design 150

**LAMP OPTIONS:**  
HSD 150/70 (Osram)  
Color temperature: 7000°K  
Socket: G12  
Manufacturers Rated Lamp Life: 2000 Hours

CDM-SA/T 150/942 (Philips)  
Color temperature: 4200°K  
Socket: G12  
Manufacturers Rated Lamp Life: 6000 Hours

**COLORS:** Cyan, Yellow, Magenta color mixing, with crossfade effect at various speeds.

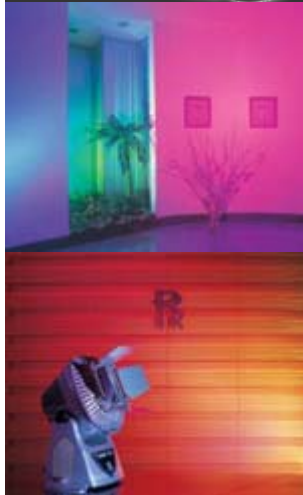
**SHUTTER/STROBE:** Double blade shutter for blackout and linear dimming.  
**BEAM ANGLE:** 21°

**HEAD ADJUSTMENT:** Tilt 90° (manually adjustable).

**CONTROL:**  
DMX: 6 Channels  
Automatic mode with Master/Slave operation.  
Lamp and unit time indication.

**MOTORS:** 8 Stepper motors  
**HOUSING:** Cast Aluminum with epoxy powder paint finish.  
**IP RATING:** IP65

**DIMENSIONS:** 11 in. (L) x 15 in. (W) x 20.5 in. (H) **WEIGHT:** 38.8 lbs.



### MiniCity 150W

**LAMP:** Mastercolour CDM-T 150W/942  
(luminous flux 10.000 lumen)  
6000 hours lamp life  
4200 K color temperature

**BEAM ANGLE:** (50% intensity) 15° 28° (with optional parabole)

**COLOR SYSTEM:** Full CYM color mixing unlimited variety of colors and shades High resolution stepper motor Color crossfades can be programmed at four different speeds or in real time

**OPTIC:** New concept optical system (patent pending)

**CONTROL INPUT SYSTEM:** USITT DMX 512 protocol Optoisolated input Stand-alone control: auto mode function-master/slave 26 stored programs

**IP RATE:** IP55

**POWER SUPPLY:** Rated voltage 230 Vac Rated frequency 50 or 60 Hz Rated current 1,1 A





**Rated power 250W (optional 208Vac 60Hz)**

**DMX CHANNELS**

- Ch1 Motor speed
- Ch2 Cyan (continuously variable)
- Ch3 Yellow (continuously variable)
- Ch4 Magenta (continuously variable)
- Ch5 Aux. (used on art. 0102)
- Ch6 Basic color

**DIMENSION: WxDxH 410x210x515**

**WEIGHT: 28.6 lbs.**



**City Color 1800**

**LAMP: MHD 1800W PHILIPS**

**Lamp life: 2.500 hours**

**Color temperature: 5.600K Luminous flux 180.000 lm**

**COLOR SYSTEM: CYM color changer with high resolution stepper motors. The color changer can be driven with four different speeds or in real time**

**DIMMER: Mechanical dimmer 0-100%**

**IP RATE: IP 33**

**POWER SUPPLY: Magnetic Ballast rated voltage 230Vac rated frequency 50 o 60 Hz rated current 10A rated power 2000W**



**DMX CHANNELS:**

- ch1 = motors speed
- ch2 = cyan
- ch3 = yellow
- ch4 = magenta
- ch5 = dimmer
- ch6 = based colors + rainbow
- ch7 = local reset/lamp off

**DIMENSIONS: 660x350x670**

**WEIGHT: 121 lbs.**



**City Color 2500**  
**LAMP: HMD 2500W OSRAM**  
**Lamp life: 2.000 hours**

**Color temperature: 6.000K Luminous flux 260.000 lm**

**COLOR SYSTEM: CYM color changer with high resolution stepper motors. The color changer can be driven with four different speeds or in real time**

**DIMMER: Mechanical dimmer 0-100%**

**IP RATE: IP 33**

**POWER SUPPLY: Magnetic Ballast rated voltage 230Vac rated frequency 50 or 60 Hz rated current 14A rated power 3000W**

**DMX CHANNELS:**

- ch1 = motors speed
- ch2 = cyan
- ch3 = yellow
- ch4 = magenta
- ch5 = dimmer
- ch6 = based colors + rainbow
- ch7 = local reset/lamp off

**DIMENSIONS: 780x560x740**  
**WEIGHT: 147.5 lbs.**



### City Beam 1200

**LAMP: MSD 1200W PHILIPS (92.000 flux/lm)**  
**2000 hours lamp life**  
**6000 K color temperature**

**BEAM ANGLE (50% intensity)**  
**8°-11° without diffusor**  
**15°-20° with diffusor**

**REMOTE OR LOCAL CONTINUOUS VARIATION BETWEEN MINIMUM AND MAXIMUM ANGLE**

**CYM COLOR MIXING:**  
**Full CYM color mixing with high resolution stepper motors**

**DIMMER Mechanical dimmer 0-100%**

**SHUTTER IR RATE IP 33/IP 54**

**Indoor use only**

**POWER SUPPLY:**  
**rated voltage 230Vac**  
**rated frequency 50 or 60 Hz**  
**rated current 7A**  
**rated power 1600W**

**DMX CHANNELS**

- ch1 = motors speed
- ch2 = cyan
- ch3 = yellow





ch4 = magenta  
ch5 = dimmer  
ch6 = beam angle  
ch7 = remote reset /lamp off

**DIMENSIONS (packing box) WxDxH 90x60x76**  
**WEIGHT:100 lbs.**



### **Century Color 2500**

Now you can really flood your buildings and fill large areas with deep saturated colors. The 2500W lamped Century Color has all the power you will need coupled with smooth distribution of light. Paint your projections with real color.

**LAMP:**

Type: MSI 2500  
Color temperature: 5600°K  
Socket: Sfa21-12  
Manufacturers Rated  
Lamp Life: 600 Hours

**COLORS:** Cyan, Yellow, Magenta color mixing.

**SHUTTER/STROBE:** Shutter for blackout and dimming

**BEAM ANGLE:** 25° x 40°

**CONTROL:**

DMX: 6 Channels Automatic mode with Master/Slave operation

**MOTORS:** 4 Stepper motors

**HOUSING:** Metal plate with epoxy powder paint finish

**IP RATING:** IP44

**DIMENSIONS:** 770mm LONG x 500mm WIDE x 720mm  
**HIGH WEIGHT:** 70Kg.

# COLOR WHEELS

Del Lighting offers an assortment of color wheels which change the color of the light output and add a dimension to applications that can not be achieved through traditional lighting methods. Two types of color wheels are offered. The Vinyl wheel and the Dichroic glass wheel.

## DICHROIC COLOR WHEELS:

The glass wheel is DICHROLIGHT™, the next generation of color filters for entertainment and architectural lighting applications. The filters, with hard and dense dichroic coatings deposited on heat resistant glass, feature ultimate color saturation, superior durability and stability compared to conventional dichroic color filters, colored glass, or gels.

### Benefits

- Highly saturated colors
- Non-aging and fading colors, reducing maintenance costs
- Highest scratch resistance and mechanical stability
- Temperature stability up to 400°C
- Absorption-free, preventing thermal stress caused by high intensity light sources
- Temperature independent spectral characteristics
- Reliable mass production with tight color specifications
- Heat resistant borosilicate glass

## VINYL COLOR WHEELS:

Vinyl color wheels are offered on all our halogen series illuminators. They are not offered on any of the metal halide series illuminators due to the increased heat output. The vinyl color wheels are exceptionally versatile in that they can be outfitted in a colored or white sparkle wheel which adds a shimmering effect that really adds beauty to a star ceiling or similar application where this effect is desired.

All our color wheels are offered in both a standard 5 color model and a standard 8 color model. Custom color wheels are available by request.

### 5 COLOR



### 8 COLOR



### CLEAR WHEEL



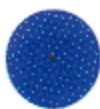
### DIMMING WHEEL



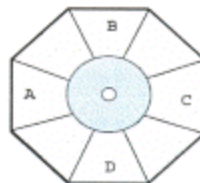
### VINYL COLOR WHEELS



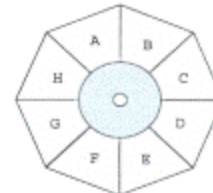
### VARIOUS SPARKLE WHEELS



### CUSTOM 5 COLOR WHEEL



### CUSTOM 8 COLOR WHEEL





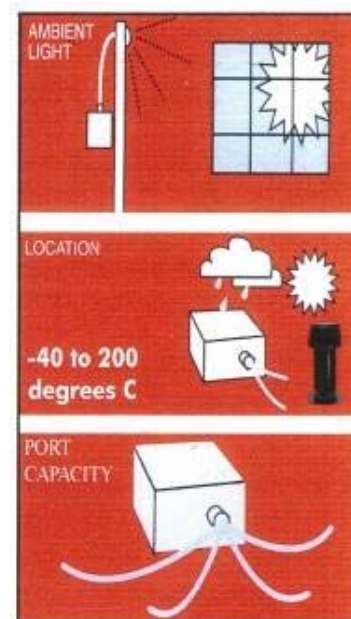
## The Fundamentals of fiber optic lighting

When selecting fiber optics for a fiber optic lighting project, you must carefully consider the end result you are trying to achieve. Although fiber optic lighting offers unique flexibility compared to conventional lighting, it does have its limitations. Areas of high ambient light should be avoided as they tend to “wash out” the color. However, you will find in many cases, that fiber optics can be installed in areas not accessible to conventional lighting.

**Brightness:** Brightness perception is dependent upon several factors such as color, background, contrast ratio, viewing angle and ambient light conditions. If brightness is critical, then the illuminator model and strand count in the cable are important. The 150-watt metal halide illuminator is approximately 10 times brighter than the 75-watt model and the 575-watt illuminator is 3.5 times brighter than that. Also, the greater the number of cable strands, the brighter the end result.

**Location:** Most illuminators are approved for indoor or outdoor use. Some models, however, are indoor only. Adequate ventilation is important for all models. The fiber optic cable is UV protected so it may be installed almost anywhere. Our fiber has been tested at temperatures from -40 degrees Celsius to 200 degrees Celsius.

**Port Capacity:** The port holds the fibers in place at the light box. The maximum number of fibers varies according to the light box model. Always take into account the port capacity when choosing an illuminator. Remember, perimeter fiber works best when looped in and out of the light box. Therefore, you must double up the strand count on perimeter cable.



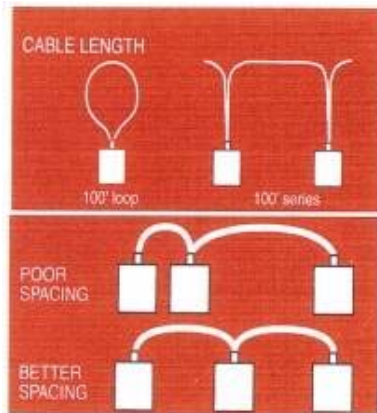
**Sidelight Cable:** Optical fibers glow like neon along their length. However, unlike neon, the cable is virtually unbreakable and is extremely energy efficient. Safety, maintenance and operation cost should also be taken into consideration when making a comparison between fiber optics and neon

This chart will give a general idea of the benefits of sidelight fiber optic cable compared to neon. It does not take into account the electrical utility cost of neon over fiber. On average, neon will cost 3 times as much as fiber on a monthly basis.

<u>Feature</u>	<u>Neon</u>	<u>Fiber</u>	<u>SAVINGS</u>
Cost/100 ft	\$2000	\$2000	-----
Installation	\$1000	\$250	\$750
5 yrs. Maintenance	\$1250	\$250	\$1000
<b>Total:</b>	<b>\$4250</b>	<b>\$2500</b>	<b>\$1750</b>

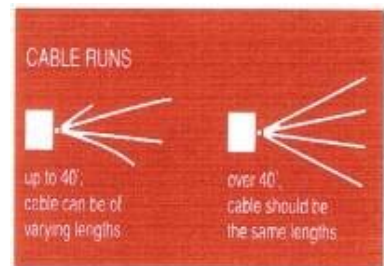
**Feature comparison chart between neon and fiber**

<u>Feature</u>	<u>Neon</u>	<u>Fiber</u>
Color changeability	NO	YES
Re-useable	NO	YES
Use in or around water	NO	YES
Heat/electricity in run	Yes	NO
Liability for breakage	Yes	NO
High voltage in run	Yes	NO
U.L/C.S.A. approved	NO	YES



**Sidelight Cable Runs:** Up to 100 foot runs are ideal, a longer run of up to 200 feet is acceptable depending on the application and illuminator model. Wherever possible, sidelight cable should always be looped in and out of the light source. Not looping is acceptable up to a maximum of approximately 45 feet. On long runs, multiple illuminators in series are the norm. They may or may not be synchronized depending on the color effect desired. When using multiple illuminators, always try to keep each cable run as close to the same length as possible. This will ensure the cables uniform brightness.

**End Light Cable Runs:** Maximum run is approximately 45 feet. However, it should be noted that the shorter the run and/or the more strands, the brighter the end result. If multiple end light fixtures are used, the cable lengths should be uniform on lengths over 40 feet.



# SHOWCASE



An example of a fiberfall



Pool with side emitting cable



Home with garden lights



Close-up of the garden lights

Del Lighting  
P.O. Box 2914  
San Antonio, TX 78148  
(210) 590-5196

# SHOWCASE



Pool with 4"x8" pavers installed in deck



Sidewalk with 4"x8" pavers



Starfield

Del Lighting  
P.O. Box 2914  
San Antonio, TX 78148  
(210) 590-5196



*Del Lighting*  
*Instruction Manual*  
*for the S150 Illuminator*

Congratulations on your purchase of the  
S150 Metal Halide  
*Fiber optic* lighting system!

For architectural lighting, fiber optics is the colorful, fun and safe alternative to conventional lighting systems. *Del Lighting* offers the latest advances in both side emitting fiber optic cable and high intensity end light fiber optic cable, which will significantly enhance the beauty of any building or display, utilizing accent lighting applications.

The S150 Metal Halide high intensity illuminator will produce vibrant color and the intense light required for all fiber optic lighting configurations. The S150 Metal Halide is engineered with cutting edge technology and quality components. Performance and reliability makes the S150 Metal Halide the industry leader.

# ADVANTAGES OF Del Lighting FIBER OPTIC LIGHTING

- No electricity omitted with fiber optic cables
- Multiple light sources from one illuminator
- No UV or IR omitted with fiber optic cables
- Color change option
- Flexible and easy to install cables
- Will not break like glass neon
- One light source with 10,000 hours of lamp life (very low maintenance – 15 hours per day for 667 days = 1.83 YEARS!)
- UL and CSA listed

## Table of Contents

General Description of the fiber optic system

Installing the cable

Trouble shooting

Replacing the lamp

Specifications

Installing the S150

Warranty

# General Descriptions

*Del Lighting* offers multiple separate light cable configurations to choose from. Your first step is to select which light cable or combination will be best suited for your application. You have many choices to choose from but here are a few for your consideration.

## **Side Emitting cable**

**S-S30** The round 30 strand cable is designed for side light use. This light cable utilizes 30 high-grade fibers incased in a water clear PVC jacket. Light is displayed in a lineal fashion producing a brilliant light simulating a neon effect. The side emitting cable is flexible, easily installed, UV resistant and has the advantage of vibrant color changes. Applications include bars, lobbies, patios and building facades, landscaping decks, boat docks, perimeter installation around rooms, billiard tables, perimeter and underwater lighting for swimming pools, etc.

**S-SO40** Similar to the S-S30, the 40 Strand 1/4"x5/8" oval cable is designed for flat side light use. This light cable utilizes 40 high-grade fibers incased in a water clear PVC jacket. Light is displayed in a lineal fashion producing a brilliant light simulating a neon effect. The side emitting cable is flexible, easily installed, UV resistant and has the advantage of vibrant color changes. Applications include bars, lobbies, patios and building facades, landscaping decks, boat docks, perimeter installation around rooms, billiard tables, perimeter and underwater lighting for swimming pools, etc.

**S-SO75** Like the S-SO40, this 75 Strand 1/4"x5/8" Oval cable is designed for flat side light use but almost twice as bright. This flexible cable can easily be installed in a confined area, which may prove difficult with conventional electrical wiring. Multiple lighting is possible from one light source and has the advantage of up to eight vibrant color changes. Applications may include task lighting, showcase lighting, signage, and accent lighting, commercial lineage lighting or pools and water applications.

## **End Emitting cable**

**E-S10** 10 Strand, 1/4" round blue-jacketed cable ideal for garden lights or small lighting applications. This cable does not glow along its length.

**E-S150** 150 Strand 12mm diameter red-jacketed cable is ideal for underwater lighting of pools, ponds starfields, or any medium size end-light application. This cable does not glow along its length

**E-S225** 225 Strand 14mm diameter black-jacketed cable is ideal for underwater lighting of pools, ponds starfields, or any larger sized end-light application. It carries 50% more light than the E-S150 cable. This cable does not glow along its length

**E-S300** 300 Strand 16mm diameter black-jacketed cable is ideal for underwater lighting of pools, ponds starfields, or any larger sized end-light application. It carries 100% more light than the E-S150 cable. This cable does not glow along its length

**Solid core cable** is stiffer than the stranded cable and usually cost more. It carries more light when compared to stranded cable of equal diameter, but unless your light output is critical, this may not be a consideration. Side emitting cable has a water clear PVC jacket and is UV resistant. As with our stranded cable, this is manufactured with PMMA acrylic cable.

## **S150 Illuminator**

The S150 metal halide illuminator is a professional high intensity illuminator the produces 15,000 lumens of light along with 10,000 hours of lamp life. The S150 is constructed with the finest quality components, is easy to install, and highly dependable. The multi color feature allows for continuous vibrant color change ability with the option to be stopped on any one desired color. Multiple lighting is possible from one illuminator. UL and CSA listed.

## **Installation of S-S30, S-SO40 or S-SO75 side emitting cable**

The S-S30, S-SO40 and S-SO75 light cables utilize 30, 40 or 75 high-grade fibers and are engineered for side vision light use. The light is displayed in a lineal fashion producing a brilliant neon effect. They operate on a closed loop system requiring both ends to be brought back to the illuminator. If a single illuminator is used the will be 60, 80 or 150 fibers per cable loop (both ends of the cable in the illuminator). Up to 750 strands of fiber can be run off of one illuminator. For optimum efficiency, 200 feet is the maximum recommended loop length per light cable. Be careful not to kink the light cable by keeping all bending radiuses to 1 inch or more.

## **Tools required:**

- Sharp knife
- Scissors or snips
- Phillips screwdriver
- Chalk line
- Measuring tape

### **Step 1**

Determine the location of the S150 metal halide illuminator best suited for your situation. Please see the [Design Guide](#) and [Guide to Cable](#) for further information.

### **Step 2**

Determine the route in which the fiber optic cables will travel. Fiber optic cables are to be in a loop configuration. If two illuminators are used, the fiber optic cable ends can travel from one illuminator to the other. 200 feet per light cable length is the maximum recommended.

### **Step 3**

Once the route is established, begin to install the track or cable clamps in which the fiber optic cable will be held. Make sure the light track/cable clamps are affixed in a straight line. Use a chalk line if necessary. Affix the light track with Phillips screws spaced 2 feet apart.

### **Step 4**

When the track is in place, begin to install the side emitting cable.

### **Step 5**

On the ground, first unroll the fiber optic cable for the entire route of installation. Lay out the path in which the fiber optic cable will travel from the illuminator or illuminators around the desired path and back to the illuminator again. **Do not cut the cable until it is completely installed in the track!** For each fiber optic cable end, leave 12 inches extra at the illuminator.

### **Step 6**

Starting at the illuminator, snap the fiber optic cable into the light track. Do not kink the light cable and avoid sharp bends less than 1 inch radius. Be sure to leave 12 inches of extra light cable at the illuminator before installing into the light track.

### **Step 7**

Work your way around the light track path until you arrive back at the illuminator. Cut the light cable leaving 12 inches extra light cable.

### **Step 8**

At this point the light cable and the light track should be completely installed. The light cable ends should be extending at least 12 inches beyond the illuminators location.

### **Step 9**

With the preceding steps completed, refer to the illuminator installation section for the final assembly.

## **Trouble Shooting**

### **WARNING: ALWAYS DISCONNECT POWER SUPPLY BEFORE SERVICING**

- THE ILLUMINATOR DOES NOT COME ON.
- Check power supply
  - Is the fuse blown for the illuminator? (Use a 5 amp. fuse)
  - Is the fuse blown for the wall plug?
  - Is the illuminator light switch on?
- THE FAN COMES ON BUT THE LIGHT IS OFF.
  - Open the cover and check that the lamps electrical connector is full mated. If the lamp does not light up, replace it with an approved *Del Lighting* lamp.
- THE LIGHT COMES ON, THEN GOES OFF, THEN COMES ON AGAIN WHILE THE FAN IS RUNNING ALL THE TIME.
  - Check that the vents are clear of debris. If they are blocked or obstructed this will occur.
- THE FAN IS NOT RUNNING, BUT THE LIGHT COMES ON.
  - Shut the illuminator off immediately and contact *Del Lighting*; you will burn out the unit!

**If the preceding problems, or any other problems persists, please contact Del Lighting at (210) 590-5196**

## **Replacing Lamp**

- Step 1: Disconnect the power supply and allow the S150 illuminator to cool completely before opening.
  - Step 2: Use a coin or screwdriver to unlock the latch on the cover. Turn the latch until it releases.
  - Step 3: Open the cover completely allowing it to swing out of your way.
  - Step 4: Turn off the power supply at the switch.
  - Step 5: Remove the screws from the aluminum and slide the lamp/reflector out of the unit. Press the release clips that hold the lamp and carefully raise the lamp out of the socket wires.
  - Step 6: Carefully remove the new lamp from the shipping case and press the two pins mounting base back into the socket.
  - Step 7: Reinstall the aluminum reflector by reversing Step 5.
- **DO NOT TOUCH THE FILAMENT OR INNER REFLECTOR WITH YOUR FINGER TIPS!**

**Note:** Use only approved *Del Lighting* lamp. Lamp type – specify serial number\*

Order: S150 Metal Halide replacement bulb.

\* Changes have been made to the lamp and we require the serial number to best service you.

# SPECIFICATIONS

**L: 12" W: 9.5" D: 7.75"**

Placement:	Indoor or outdoor uses. Certified for wet locations. UL, CSA, CE and C $\sqrt$
Housing:	Paint: Baked powder coat Material: 0.051" Satin coat steel Color: Gray Hammer tone
Lamp:	Type: HIT 150 unit, specify serial # Life: 10,000 hours Light output: 15,000 lumens Volts: 120 VAC Watts: 150 watts
Power:	Supply: 120 VAC Consumption: 150 watts
Current:	1.7 amps
Fuse:	5.0 amp
Weight:	20 lbs
Color wheel (8color option)	Red, Dark Blue, Orange, Lt Blue, Yellow, Magenta, Green, White
Color motor:	115 VAC, 1 RPM
Cooling fan:	115 VAC, 120 CFM
Fiber capacity:	750 individual fibers



## **Installation of S150 Metal Halide commercial illuminator**

The S150 metal halide illuminator is a high intensity illuminator producing intense light as well as a variety of vibrant colors. Separate switching controls the S150's power supply and color change wheel. Continuous color change is possible or you can lock on a color of your choice. Eight colors are available: red, dark blue, orange, lt. blue, yellow, magenta, green and white. This illuminator operates on a 120-volt plug in power supply and is suitable for **indoor or outdoor use**. The lamp will produce 15,000 lumens of intense light and provide 10,000 hours of lamp life (low maintenance).

### **Tools Required:**

- Flat head and Phillips head screwdriver
- Scissors or snips
- Sharp knife
- Hot knife for cutting fibers.

### **Step 1:**

Determine the location in which the illuminator will be installed. For servicing purposes install in an area readily accessible. It can be mounted on the wall, floor or in a ceiling. The S150 illuminator utilizes a cooling fan. Install in an area with no less than 6 cubic feet of air space. Slight fan noise will be experienced.

### **Step 2:**

Affix the S150 illuminator to its surface with screws

### **Step 3:**

Run all light cables to the illuminators location. For each light cable leave 1 2" of extra length at the illuminators location.

### **Step 4:**

At the end of each light cable remove the first 6" of the outer jacket. Using a sharp knife, score the jacket half way through and pull the end off holding the lower part of the cable with your other hand. Be careful not to nick the fiber. Any damage to the fibers at this point will affect its final performance. Proceed with caution on this step.

Step 5:

One port kit with 4 inserts is provided with each S150 Illuminator. These inserts are provided to hold the light cable ends for termination. The small bore will hold 100 fibers and the medium unit will hold 500, the large bore 750 fibers and the main body with no insert will hold 800+. Add up the total number of fibers brought into the illuminator and select the proper insert fitting.

Step 6:

Slide all of the fibers from the light cables into the port kit. Allow 1" of fiber to extend beyond the end of the port.

Step 7:

Cut 2" off of a discarded light cable and stuff more fibers into the tube until it is completely filled and will not accept any more fibers. Note: It is important that you completely fill the port until it will not accept any more fibers.

Step 8:

Now tighten the flex connector attached to the opposite end of the port kit. It is important to tighten down on the casing of the fiber jackets to ensure a firm/tight fit.

Step 9:

Plug in the hot knife and allow 10 minutes for it to heat up. Exercise caution avoiding the tip from touching anything.

Step 10:

When the hot knife is ready, place the knife blade against the aluminum tube where the fiber ends are protruding. Begin pressing down lightly letting the knife do the work. Do not apply excessive pressure. A straight clean 90° cut should be achieved. Allow the knife to heat up again if this is not the case and make a second skim pass if necessary. Please take your time, this is an important step.

Step 11:

If the light cable bundle is not completely secure it may be necessary to build up the bundle diameter with off cuts of the optic cable cover jacket. Do not use electrical tape on the fiber jacket. Ensure the light cable bundle is secure. Make sure the insert is flush with the optic port end before securing the light bundle.

Step 12:

Install the fiber optic port into the face of the S150 illuminator and press into position and rotate to lock the port.

Step 13:

Plug in the power supply of 120 volts.

Step 14:

Turn the S150 illuminator on. If the light comes on and the fan is not running, turn off **immediately**. If this or any other problem occurs, consult the troubleshooting section.

Step 15:

At this point all light cables installed should be brightly lit. The color switch will provide constant color change or lock on any one desired color.

## **Installation of fiber optic cable**

All *Del Lighting* fiber optic cable is designed for end/side light use. This non-electric flexible light cable can easily be installed in a confined area that may prove difficult with conventional electrical wiring. Multiple lighting is possible from one light source.

Dramatic color change makes *Del Lighting* cable unique. Light cable lengths should not exceed 75'. Each light cable has various individual light fibers while the S150 illuminator will hold 750+ individual light fibers.

### **Tools Required:**

- Sharp knife
- Scissors or snips
- Hot knife

Step 1:

Determine the illuminator location best suited for your situation. Consult the S150 illuminator section for proper location.

Step 2:

Determine the number of END light fixtures and their locations. One light cable will be used for each light fixture. Light cable lengths should not exceed 75' per cable.

Step 3:

Cut a hole 3" in diameter at all light fixture locations. Panel thickness should be no less than ½" and interior cavity depth no less than 4"

Step 4:

From the S150 illuminator run one light cable to each of the light fixtures locations. Be careful not to kink the light cable when installing. Allow 8" of extra light cable at the light fixture locations and 12" of extra of extra light cable at the illuminator location.

Step 5:

At the light fixture location remove outer jacket of the light cable 2" down from the end. Use a sharp knife being careful **not** to nick or cut the fibers.

Step 6:

The light fixture comes complete with an optic lens, plastic centering disc and a light cable connector. Disassemble the thin black backing nut and the centering disc from the connector.

Step 7:

Slide the black nut over the light cable end followed by the centering disc. The lower step on the centering disc will face towards the light cable end.

Step 8:

Slide the light cable connector over raw fibers until it seats itself on the jacket.

Step 9:

Tighten the acorn nut on the cable connector with two adjustable wrenches. Make sure it is secure. **Do not over tighten.**

Step 10:

Place the centering disc over the threads on the connector and tighten up the black nut behind it.

Step 11:

Once all the light cables are fed and connected, plug in your hot knife. Allow it to heat up a minimum of 10 minutes before using. Use the stand provided exercising caution to avoid the hot tip.

Step 12:

When the hot knife is ready, place the blade on the fibers 1/8" away from the acorn nut face. Push forward slowly, letting the knife do the work, do not apply excessive pressure. A straight, clean 90° cut should be achieved. Repeat this process for all lights, although in may be necessary for the knife to heat up again after each application. Please take your time, this is an important step.

Step 13:

At this point all *Del lighting* light cables should be terminated at the light fixture locations. The light cable connector will be securely affixed to the terminated light cable end with the centering disc and backer nut in place.

Step 14:

Hold the light fixture with one hand. With the other hand, push the terminated light cable end through the back of the light fixture

Step 15:

Slide the light cable between on the top backside of the light fixture.

Step 16:

Slowly pull the light cable back through the light fixture until the spring loaded fork is gently seated on the base of the light cable connector.

Step 17:

Screw the clear optic lens in from the front of the light fixture. The plastic centering disc will seat itself on the back of the optic lens as you do this.

Step 18:

Continue to screw the optic lens into the light fixture. The disc the light fixture will begin to apply pressure on the light cable connector. Turn in until finger tight only. **Do not over tighten.** It is normal to have exposed threads on the optic lens.

Step 19:

At this point the *Del Lighting* light cable should be securely held in place with the lens in place within the light fixture.

Step 20:

Gently push the light fixture into the 3” diameter hole already cut in the panel. The light fixture should be flush to the panel.

Step 21:

All light fixtures should now be in place at their locations. Proceed to the S150 illuminator installations section for the final assembly.

# *Del Lighting*

## **Lifetime Warranty**

Del Lighting warrants the the S150 metal halide light box is free from defects in material and workmanship at the time of manufacture. The S150 metal halide unit is covered 100% (excluding freight) for 1 year from the date of purchase.

After that period, Del Lighting will repair or replace defective units at a cost of \$100.00 for as long as you own the product, EXCLUDING THE 150 METAL HALIDE BULB. The light box (minus the fiber and the port) should be returned prepaid to our factory, along with a \$100.00 certified check or money order (do not send cash), payable to Del Lighting. Proof of purchase (store receipt) must also accompany the unit.

Please call our customer service at (210) 590-5196 for arrangements.

The warranty does not cover defects caused by abuse, accident, negligence or repairs make by others. This warranty gives you specific legal rights, you may also have other rights which may vary from state to state or province to province.