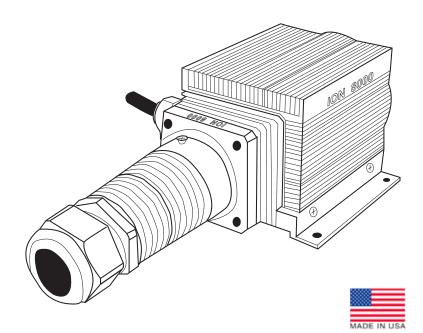
ION Series FIBER OPTIC ILLUMINATOR IP67 OUTDOOR RATED

ION-8000-WW (Warm White)
ION-8000-CW (Cool White)
ION-8000-B (Blue)
ION-8000 RGB
ION-8000 RGBW
ION-8000 WW-CW



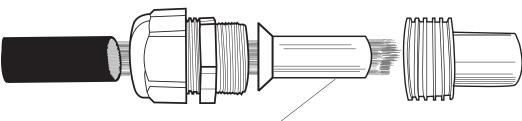








STEP 2 INSERT FIBER INTO FIBERHEAD



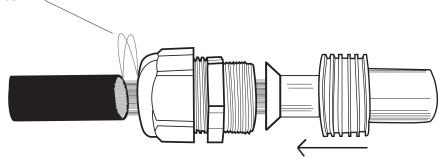
2a. Centering Reducers are used when the aluminum ferrel is not completly filled with fiber.

Fiber must be tightly pack at the end of the ferrel. For optimum performance a centering device is used in combination with "dead" (see step **2e**) fibers to acheive this.

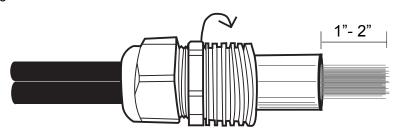
2b. Pull any "jamed" fibers completely out and re-insert individually or in small groups while leaving the other fibers in place.

PRO-TIP #2

Many Pro installers prefer to disassemble the fiberhead components then insert the fiber through each component, before re-attaching each component back together.



2c. Tighten the Aluminum Ferrel to the PG

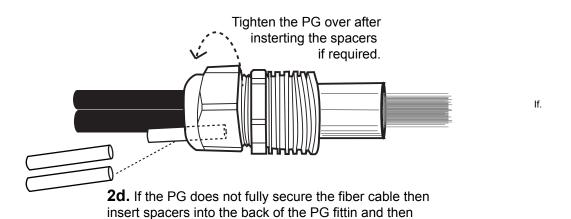


All fibers should extend 1"- 2" prior to cutting.

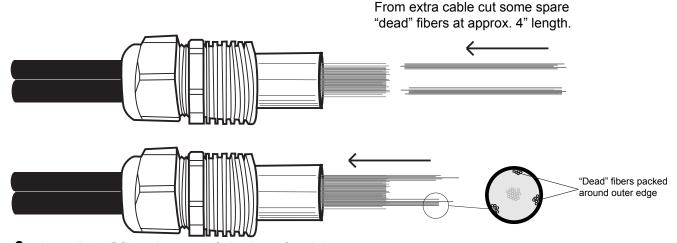


CONT. >

STEP 2 **INSERT FIBER INTO FIBERHEAD (CONT.)**



tighten the PG securely on the cable.



2e. Insert "dead" fibers into end of aluminum ferrel tip.

PRO-TIP #3

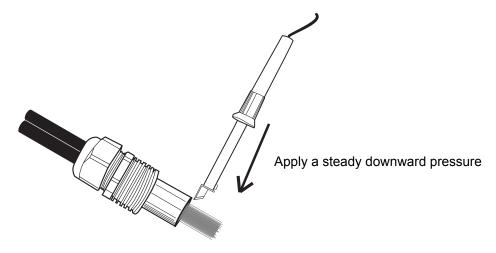
Inserting "dead" fibers into the end of the fiber head around the outer edge of the fiberhead will help to pack all the fibers tightly together so the light will enter at the optimal angle and help to eliminate air pockets where excess heat can build up.

Pack as tightly as possible!







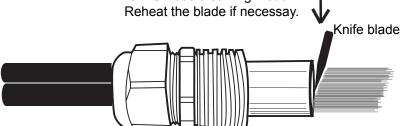


3b. Use a steady downward pressure with a heated blade to cut the fiber.

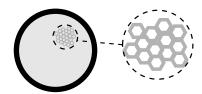
Let the heat of the blade and steady pressue do the work.

DO NOT use a sawing motion.

Reheat the blade if necessay.



The result should be a smooth cut with the fibers densely packed together.

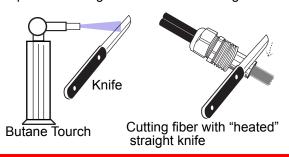


End View of fiberhead.

PRO-TIP #4

For Experienced Professionals ONLY!

You may experience diffuculty cutting fibers when you have too long an ext. cord to the knife, resulting in low knife tip temperature, or when there is no electrical service available or cold temperatures. An alternate method is to use a butane torch to heat a knife blade. It might be necessary to re-heat the knife durung the cutting. Use the same method as the electric knife - no sawing, downward pressue letting the heat do the cutting.

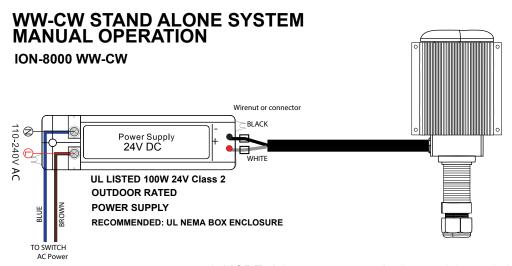


PRO-TIP #5

A very fine sandpaper 1000 Grit can be used to polish the end then finish with a plastic polish.







1. MODE: Advance to next color by toggleing switch 1-2 seconds OFF then ON.

MODE COLOR ORDER: Cool White 5000K / Neutral White 4000K / Warm White 3000K 2. RESET MODE: Toggle OFF 5-7 seconds then ON. This will reset all light sources back to blue.

Memory will be save after 8 seconds.

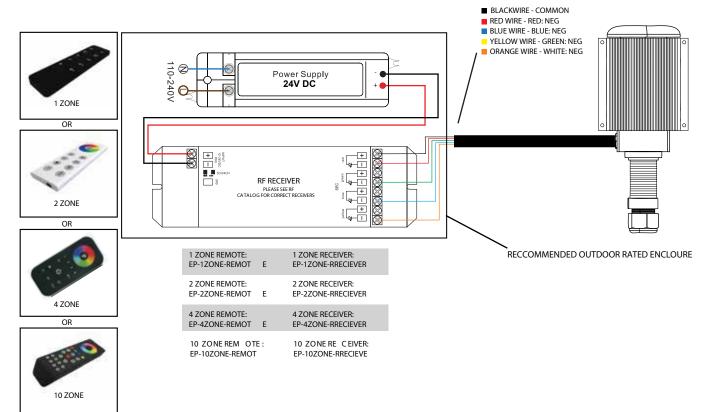


Φ

A toggle switch is to be wired to the AC input. This switch is used to scroll through all the modes on the Illuminator.

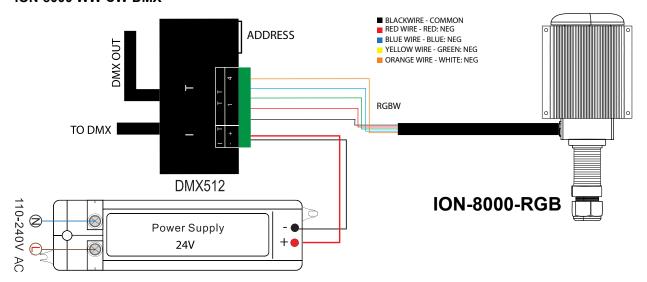
RF SYSTEM WIRING

ION-8000 RGB-DMX ION-8000 RGBW-DMX



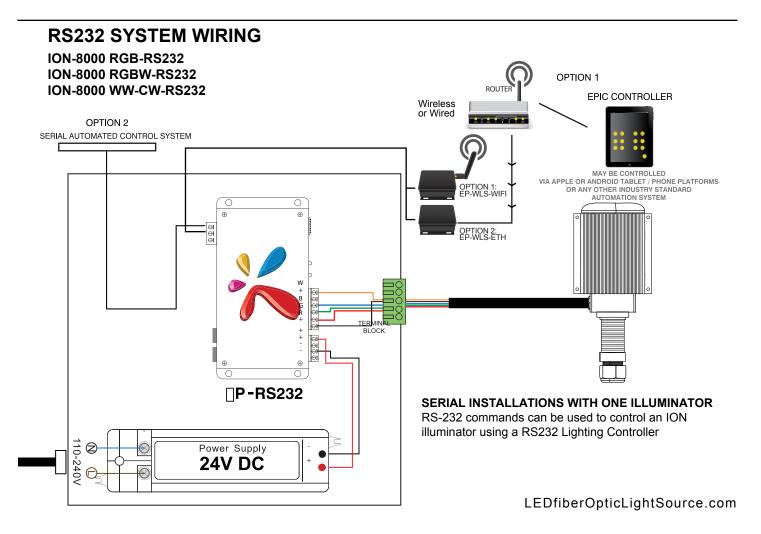
DMX SYSTEM WIRING

ION-8000 RGB-DMX ION-8000 RGBW-DMX ION-8000 WW-CW-DMX



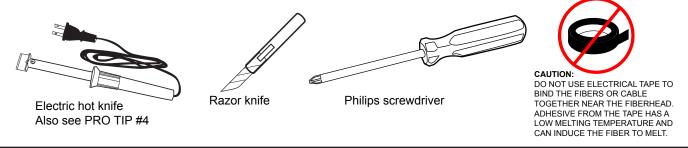
ION-8000-DMX

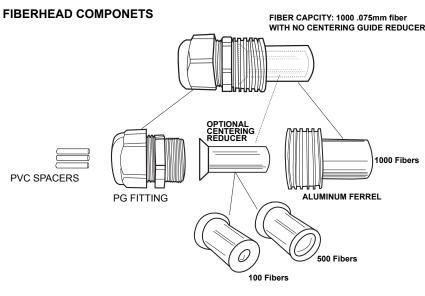
DMX is an industry standard abbreviation for "digital multiplex". It is an RS-485 based protocol that has become the industry standard for digital lighting control interfaces. DMX allows users to synchronize fixtures to a centralized lighting controller. It supplies a constant flow of data to the fixture so that the unit knows what it should be doing at all times.





TOOLS REQUIRED

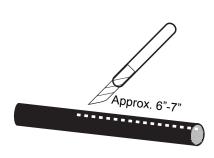




PRO-TIP #1

The prepartion of the fiberhead is one of the most important elements in achieving maximum performance from your ION Series Fiber Optic Light Source. Solidly packed, clean cut fibers allow the light emitted from the light source to enter the ends of the fiber at an optimum angle for superior performance and reduced fiberhead maintenace. It is advisable to provide a service loop or extra lenght of fiber at the light source should re-cutting the fiber be necessary. A 12" to 18" service loop is recommended.

STEP 1 Remove the PVC jacket from the cable



1a. Slice through the jacket, careful not to cut any fibers.



1b. Remove the excess jacket with a knife or scissors.



The cut fiber cable should look like this.



INDEX / OVERVIEW

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PRODUCT OVERVIEW

The ION Series Fiber Optic Illuminator is a commercial grade LED light source. It is UL rated for indoor or outdoor use.

It is designed for use with side-emitting and end-emitting fibers and fiber optic cables.

Side-emitting fiber optic cable extract light along the length of the fiber to provide the look of neon while being passive and flexible.

End-emitting fibers transport light from one end of the fiber to the other with minimal light loss to a light fixture or as fiber point sources. It is avaviable in several diffrent models:

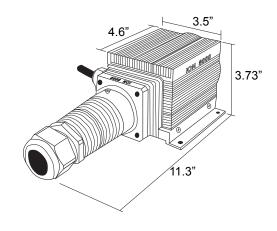
ION-8000-WW - single color warm white
ION-8000-CW - single color cool white
ION-8000-B - single color blue
ION-8000 RGB - Red Green Blue
ION-8000 RGBW - Red Green Blue White
ION-8000 WW-CW - Dynamic color change from warm white
to cool white, tunable via controller.

Control system options include: **Manual - Stand Alone**

DMX RS232 RF

PRO-TIP

PRO-TIPS are useful pieces of practical advice throughout this manual from fiber optic lighting professionals.



SPECIFICATIONS

PARAMETER	MAX. RATING
Input Voltage to Power Supply	100-240VAC
Input Voltage to Light Source	24VDC
Amps	4 Amps
Wattage	96W max
Hz	50-60Hz
Fiber Capacity	1000 @ .075mm
*Operating Temp.	-10°C to +80°C
Weight	7 lbs.
Outdoor rating	IP67
Finish	Anodized Black
Construction	Aluminum

^{*}Thermal cut-off protection 70°C

LEDfiberOpticLightSource.com

TROUBLE SHOOTING (1)



NOTE: This light source is not serviceable and has no internal servicable parts.

Please contact the manufacturer with service related issues.

Problem: Low light levels in fiber

Possible Cause: Melted fibers in fiberhead from overheating.

Solution: Recut the fiberhead and when it is re-inserted insert it up to 1/2" off the fully seated position.

This will not affect the light intensity.

Problem: Light Source is not ON.

Possible Cause: No power / improper wiring

Solution: 1. Check that main power to the unit is ON / If power is ON and the light source is still not ON

then check if there is power at the low voltage side of the power supply. Is there is no power

at the low voltage side contact the factory.

If there is power at the low voltage side of the power supply check for proper control system

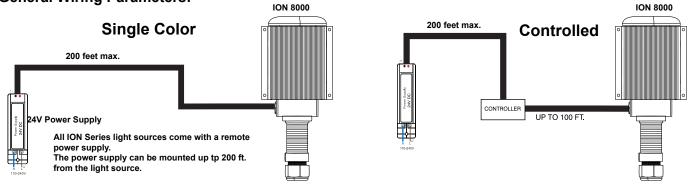
wiring.

FOR ALL OTHER ISSUES CONTACT THE FACTORY.

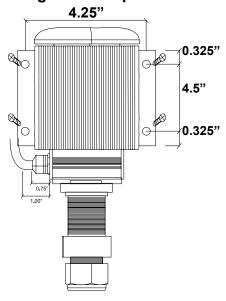
2

NOTE: This light source is not serviceable and has no internal servicable parts. Please contact the manufacturer with service related issues.

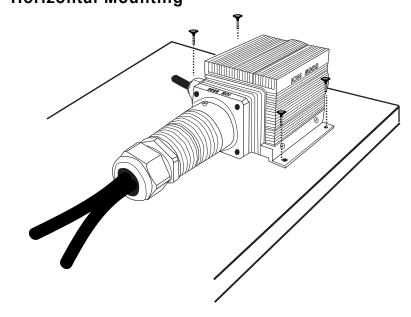
General Wiring Parameters:



Mounting Hole Template

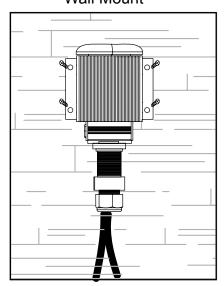


Horizontal Mounting

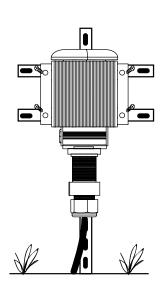


Vertical Mounting

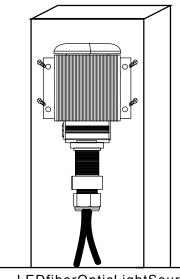
Wall Mount



Uni-Strut Mount



Post Mount

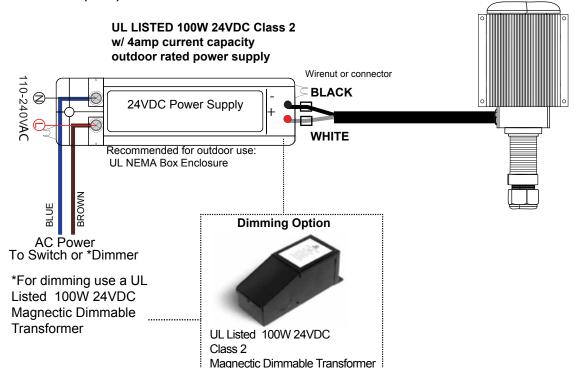


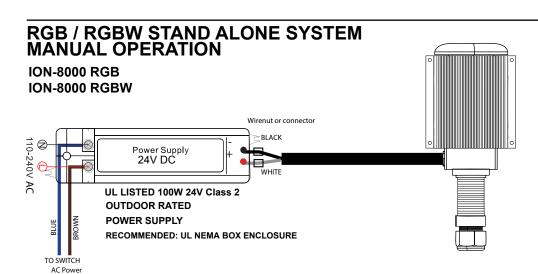
LEDfiberOpticLightSource.com

SINGLE COLOR STAND ALONE SYSTEM MANUAL OPERATION

ION-8000-WW (Warm White) ION-8000-CW (Cool White) ION-8000-B (Blue)

NOTE: Only a licensed electrician should install this product.





1. MODE: Advance to next color by toggleing switch 1-2 seconds OFF then ON.

TOGGLE SWITCH

A toggle switch is to be wired to the AC input. This switch is used to scroll through all the modes on the Illuminator.

MODE COLOR ORDER:

Blue / White / Cyan / Green / Magenta / Red / Gold / Slow color change / Party mode

2. RESET MODE: Toggle OFF 5-7 seconds then ON. This will reset all light sources back to blue.

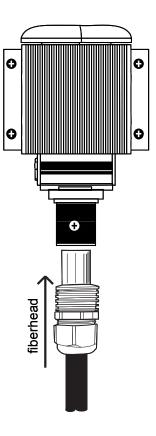
Memory will be save after 8 seconds.



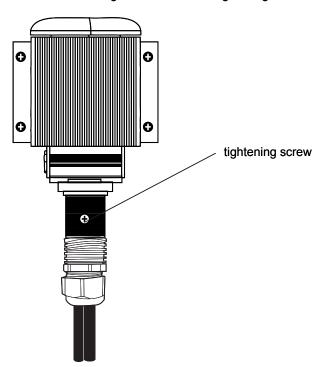
STEP 3 **INSERT FIBERHEAD TO LIGHT SOURCE**

NOTE: The Light Source should be mounted before you install the fiber head

3a. Slide the fiberhead into the lightsource fiber port.



3b. Secure the fiberrhead in the light source with the tightening screw.



PRO-TIP #6

Are you a Pro-Installer? Share your tips and tricks with us at LEDfiberOpticLightSource.com Not a Pro but want to become one? Go to impactlighting.com/pro to learn how.