ALSI **ADVANCED**
LIGHTING SYSTEMS INC.

LyteLaunch™-150

Dry - Wet and DMX Models

Operation Manual

LyteLaunch™ 150 Introduction

Thank you for purchasing the LyteLaunch 150 from Advanced Lighting Systems, Inc. This fiber optic lighting illuminator has been engineered and designed to be simple to operate, energy efficient and reliable.

The LyteLaunch 150 is a 150 watt HID metal halide portable luminaire, designed to illuminate both sidelight and end light fiber optic cables. Each unit includes a fiber cable connection ferrule system with a compression fitting to accommodate all types of fiber. Each unit includes a power cord with a plug that connects to power and activates the lamp. Color wheel units include a switch to start and stop the rotation of the color wheel. Safety features built in are fuse protection, and cover cut off switch.

The LyteLaunch-150D is designed for dry indoor applications only. The LyteLaunch-150W is designed for dry or wet area applications. This illuminator may be installed in any position indoors and horizontally only outdoors.

Installation & Operation
**Read All Instructions
Save These Instructions For Future Reference.**

    Warning - Risk of Electrical Shock

    Warning - Light and Heat energy emitted from this unit could cause skin burns and damage to eyesight.

    Caution - risk of exposure to excessive ultraviolet (UV) radiation - Do not operate without complete lamp enclosure in place or if glass lens is damaged.

Install the LyteLaunch 150 following the guidelines in the "Location and Mounting Requirements" and "Wet Location Use" sections of this manual.

The LyteLaunch 150 is normally shipped with the lamp installed. If the unit is shipped without the lamp installed, refer to the "Instructions for Re-Lamping" section of this manual.

Insert the fiber optic cable in the LyteLaunch 150 ferrule system. The fiber optic cable must always be installed with the fiber positioned exactly even with the end of the ferrule shaft which extends into the illuminator. Allowing the fiber to extend beyond the shaft or to be recessed in the shaft will cause excessive heat and will cause damage the fiber. With the fiber properly positioned, hand tighten the black plastic compression fitting to hold the fiber cable in place. Insert the ferrule shaft into the illuminator and lock the ferrule flange in place using the two screws mounted on either side of the illuminator ferrule opening.

Connect the LyteLaunch 150 to power following the guidelines in the "Location and Mounting Requirements" and "Wet Location Use" sections of this manual.

The lamp will immediately begin to strike. Allow approximately 5 minutes for lamp to reach full intensity.

LyteLaunch™ 150

Technical Specifications

Power: 120V 50/60 Hz. - 180 Watts total power consumption.
Lamp: Philips CDM-SA/R150 with UV Fadeblock
Dimensions: 6.5"/16.5cm Width X 11"/27.94cm Length X 7.75"/19.7cm Height
                        (DMX module adds 3.75"/9,525cm to Height)
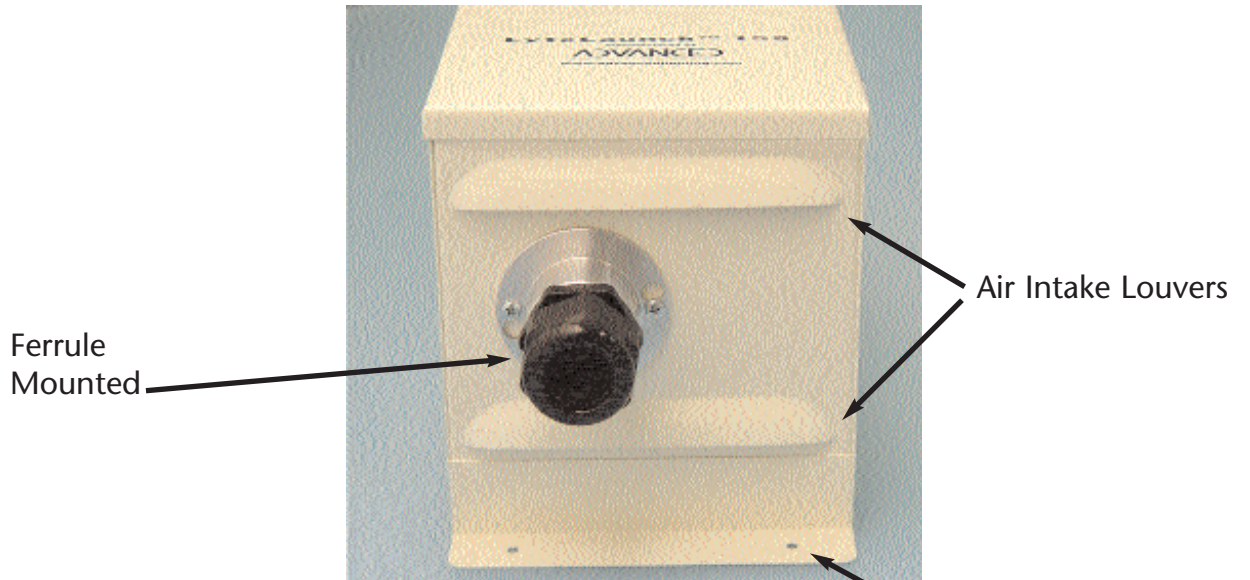Weight: 8 lbs/3.628kg.
Max. Recommended Ambient Temp: 95˙ F.
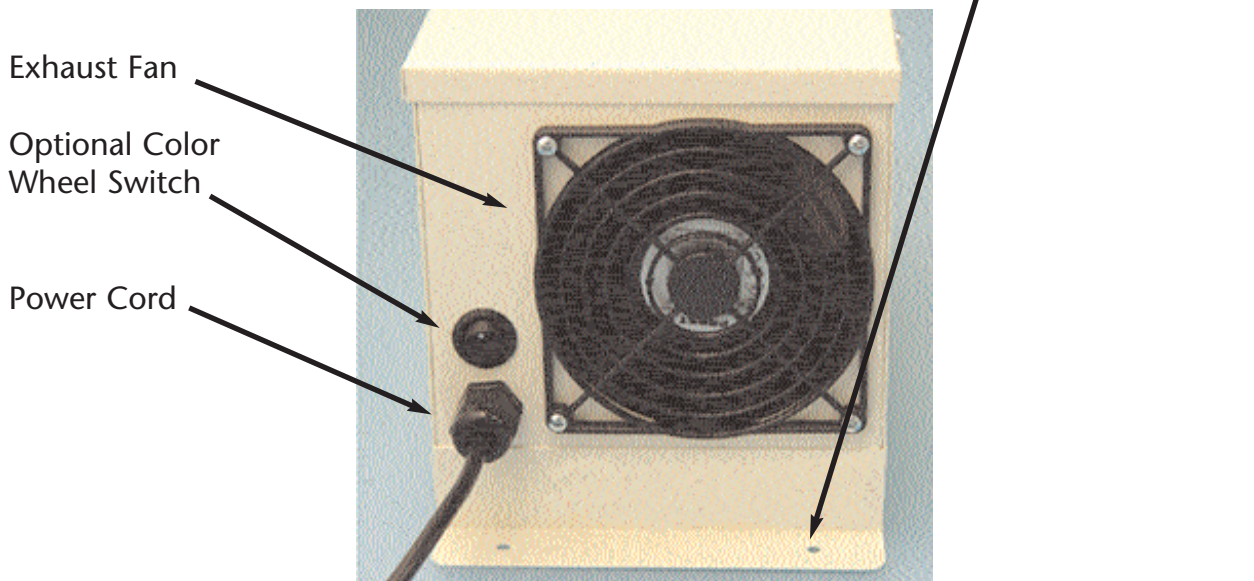Forced Air Ventilation: 56 CFM
Nominal Operational Noise: 28db
UL and C-UL listed as a Portable Luminaire for dry and wet locations.

Front View - Dry or Wet Model

Ferrule
Mounted

Air Intake Louvers

Mounting Holes

Rear View - Dry Model

Exhaust Fan

Optional Color
Wheel Switch

Power Cord

Location and Mounting Requirements

The LyteLaunch™ 150 dry location model must be mounted either horizontally (feet down or feet to wall) or vertically with fan on top. Never mount the unit with the fan on bottom.

The LyteLaunch™ 150 wet location model must be mounted horizontally (feet down only) to a surface. It is recommended that it be placed in an elevated location to prevent potential flooding. Be sure to take necessary measures to prevent the build up of snow, ice or organic material which may prevent proper airflow.

Allow for a twelve inch clearance for both the in-take and exhaust sides from any surfaces to maintain proper ventilation. When mounting multiple illuminators within close proximity, maintain a two foot clearance between each illuminator. The maximum operating temperature is 95 degrees F.

If unit is to be placed on a horizontal surface such as floor or shelf, be sure that the surface is clean and does not have protruding elements such as insulation, sawdust or paper that may be drawn into the illuminator causing fan failure or internal damage. Such items may create risk of fire. For secured attachment, mount the unit by screwing the feet to the surface.

If mounting unit on a vertical surface or wall, be sure that the wall is capable of holding the illuminator weight. To mount to a metallic or wood surface, hold unit onto surface where it will be located and mark holes. Mount the illuminator with #10 screws appropriate for surface material. To mount to a dry wall surface, hold unit onto surface where it will be located and mark holes. Drill in dry wall anchors. Mount the illuminator with #10 screws appropriate for dry wall anchors chosen.

When planning for power for this illuminator, locate the illuminator within five feet of the power source.

Wet Location Use

WARNING: when using outdoor use portable luminaires, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

Read All Instructions

Use only three-wire outdoor extension cords that have three-prong grounding plugs and grounding receptacles that accept the illuminators plug.
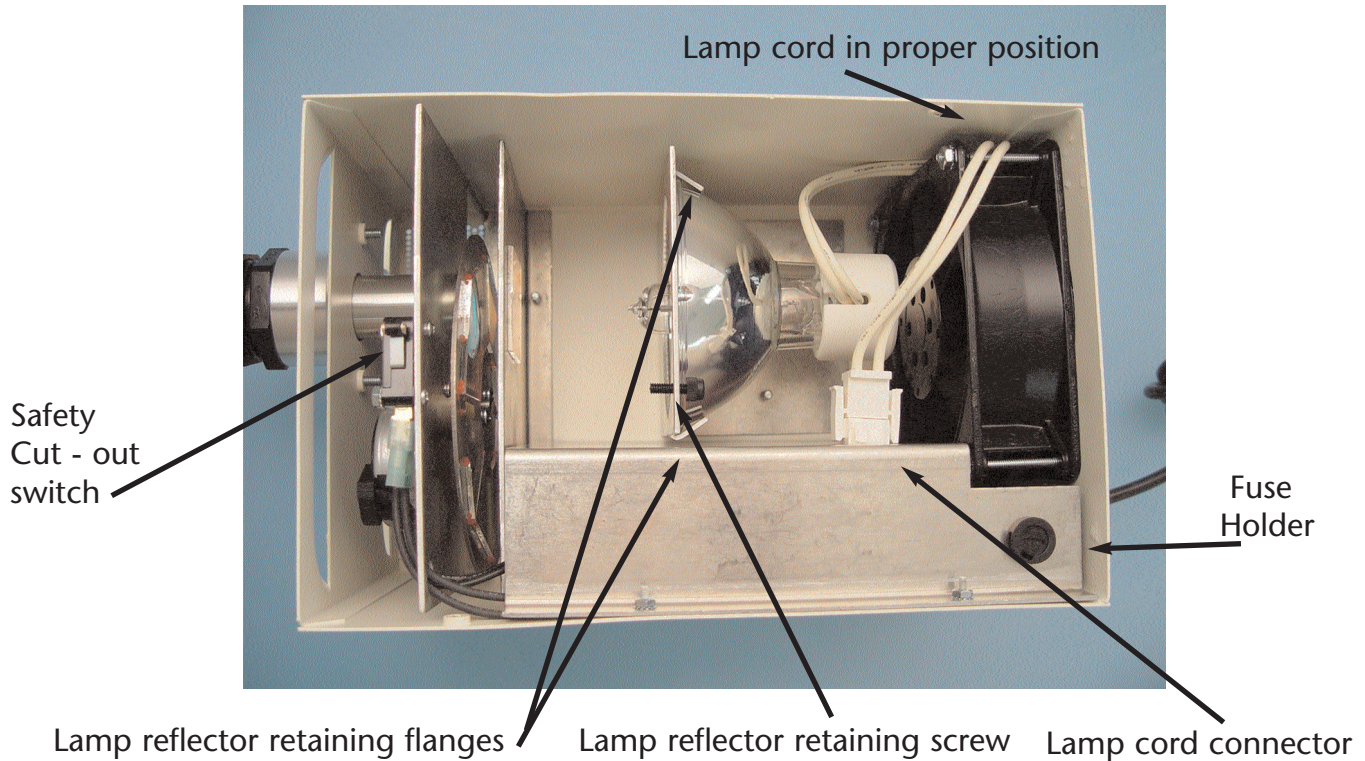
Ground Fault circuit Interrupter (GFCI) protection is to be provided on the circuits(s) or outlet(s) to be used for the wet location portable luminaire. Receptacles are available having built-in GFCI protection and are able to be used for this measure of safety.

Use only with an extension cord for outdoor use, such as an extension cord of cord type SW,SW-A, SOW, SOW-A, STOW, STOW-A, SJW, SJW-A, SJOW, SJOW-A, SJTW, SJTW-A or SJTOW, SJTOW-A.

Save These Instructions

Instructions For Re-Lamping

The LyteLaunch™ 150 fiber optic illuminator uses a 150 watt metal halide lamp available from Advanced Lighting Systems, Inc. or an authorized dealer. It is recommended that the lamp be changed every 5000 hours. Do not wait for lamp failure before changing lamps. Lamp failure may not occur until lamp performance is below minimum tolerances. For even illumination of sites with multiple illuminators installed, it is recommended that all lamps be changed at the same time.

Lamp cord in proper position

Safety Cut - out switch

Fuse Holder

Lamp reflector retaining flanges   Lamp reflector retaining screw   Lamp cord connector

1. Disconnect units power cord from power supply.

2. Allow unit to cool for a minimum of 20 minutes before proceeding.

3. Remove the two lid retaining screws located on the lid of the unit. Remove lid.

4. Disconnect lamp cord connector

5. Remove lamp reflector retaining screw from top corner of lamp.

6. Remove lamp by lifting lamp straight up and out of lamp retaining flanges.

7. Install the new lamp by inserting the lip of the lamp reflector into the retaining flanges. Reinstall the lamp reflector retaining screw. Reconnect the lamp cord connector making sure that excess lamp cord is inserted into it's proper position around side of fan.

8. Replace lid and reinsert two lid retaining screws.

9. Connect unit to power supply. Allow approximately 5 minutes for lamp to reach full intensity.

DMX Control

The LyteLaunch 150 with the DMX option installed, is DMX 512 capable. Programming set up may be needed. The color wheel can be operated by an external signal. This signal can be delivered through either of the XLR connectors located on the illuminator. The remaining connector can be used as an output signal (in the case of a daisy chain) or left un-used. Consult the instructions for the DMX controller or other signal processor that will be used for programming instructions.

Initialization of DMX

When the main power switch on the front of the illuminator is turned on, the illuminator will run a self-test. This self-test verifies that the illuminator is functioning properly.

Selecting Color Manually

Color wheels may be adjusted manually to display a specific frame of color from the illuminator.
1. Turn the Adjustment Knobs to corresponding indicator number to set the desired color. The color wheel has eight color frames. See DMX table below.

Setting the Base DMX Address

As with all products that are DMX controlled, the LyteLaunch 150 requires that DMX channels be set to specific "addresses" in order that the illuminator will respond to specific channels from a control unit. Using the adjustment knobs, set the desired DMX address for the illuminator. See table below.

The LyteLaunch 150 uses 2 DMX channels on the control board.
CHANNEL 1 - color wheel position selection channel.
CHANNEL 2 - color wheel speed and movement characteristics.

The DMX program allows a DMX controller complete control of color wheel movement. Using channel 1 - from a stopped position, the operator selects the color wheel speed from 0 (slowest) to 100 (fastest). Using channel 2, the operator selects the position for the color wheel to move to. When cued by the controller, the wheel will move to the set position at the set speed. The wheel will turn either clockwise or counter clockwise depending on which is the shortest distance to the next point.
If DMX controlled continuous rotation is required, the programmer should use an effect or cue loop to send regular position updates to the illuminator (s). This will insure that all addressed illuminators stay in sync with each other .

Color	DMX % Value	DMX Decimal Value
White	00%	000
Red	13%	033
Purple	25%	064
Dark Blue	37%	095
Lt. Blue	50%	128
Green	62%	160
Yellow	75%	192
Orange	87%	223

Selecting Stand Alone Programs

The LyteLaunch 150 illuminator has pre-programmed cues stored in its memory. These may be played back. A "cue" is a pre-programmed list of colors that the illuminator will cycle through at a given rate and hold value.

　　1. Using the front panel Adjustment Knobs, select the desired stand alone program. (see table below for programs).

PRE SET CODES

601 is 1 rpm smooth movement

602 is 2 rpm smooth movement

603 is 3 rpm smooth movement

Continuing up to 620 at 20 rpm smooth movement.

622 is snap to each color every 2 seconds.

625 is snap to each color every 5 seconds.

630 is snap to each color every 10 seconds.

640 is snap to each color every 60 seconds.

650 is snap to each color every 5 minutes.

701 is lock 1st position on color wheel.

702 is lock 2nd. position on color wheel.

703 is lock 3rd. position on color wheel.

704 is lock 4th. position on color wheel.

705 is lock 5th. position on color wheel.

706 is lock 6th. position on color wheel.

707 is lock 7th. position on color wheel.

708 is lock 8th. position on color wheel.

Synchronizing Multiple Illuminators

This feature allows the user to "daisy chain " multiple illuminators and synchronizes the color. Using standard DMX cable, it is possible to plug two or more illuminators together and designate one illuminator as the "master". The other illuminators on the chain will then be "slaved" to its commands.

　　1. Link two or more illuminators using DMX cable

　　2. Designate a "master" illuminator. Any illuminator in the "daisy chain" can be designated master illuminator. After the master illuminator is chosen, set Adjustment Knobs on that uit on desired stand alone program to enable the master mode.

　　3. To designate a "slave" unit, set that unit's Adjustment Knobs to 001.

Resetting the DMX Programs

Set Adjustment Knobs to 000. Unit will reset to first position color (white on standard wheel)

Trouble Shooting

Light is very dim:
1. Remove master ferrule and check if fiber is discolored or burned from excessive heat.
2. Check all glass between lamp and port for dirt and debris.
3. Check lamp and reflector for dirt and debris.
4. Replace lamp. (Contact your Advanced Lighting Systems dealer for replacement lamp).
5. Check outlet voltage.

Lamp does not come on:
1. Check to see if unit is plugged in.
2. Check to see if outlet has power.
3. Check fuse.
4. Check lamp connection.
5. Check to see if fan comes on.
6. Be sure lid is correctly in place and activating safety cut out switch.

Lamp operation is intermittently on and off:
1. Check connections.
2. Check fan.

DMX unit color wheel operation is random or not operating:
1. See DMX table for rotary knob settings.

LyteLaunch™ 150 Re-Order Parts List

Item	Part #
LyteLaunch 150 Dry Location 120V	ALS-LL150-D-120-
LyteLaunch 150 Dry Location 240V	ALS-LL150-D-240-
LyteLaunch 150 Wet Location 120V	ALS-LL150-W-120-
LyteLaunch 150 Dry Location 240V	ALS-LL150-W-240-
LyteLaunch 150 with Standard Color Wheel	Add to above specification - S8
LyteLaunch 150 with Custom Color Wheel	Add to above specification ˆ C8
LyteLaunch 150 with White Light Only	Add to above specification ˆ WL
LyteLaunch 150 with DMX control	Add to above specifications - DMX
Lamp for LyteLaunch 150	CDM-SA/R 150
Ferrule Assembly for LyteLaunch 150	LL150 MF
Fuse for LyteLaunch 150	LL150 Fuse 10 Amp