

Illuminator User Guide



Triton Illuminator Range

Models covered by this manual:

UL-UFO75P
UL-UFO75PC
UL-UFO75PCS
UL-UFO75PCR
UL-UFO100P
UL-UFO100PC
UL-UFO100PCS
UL-UFO100PCR

Please read this manual fully before installing, operating or performing maintenance on the illuminator unit.

INTRODUCTION

Thank you for purchasing this UFO Illuminator.

Please read these instructions fully before connecting your unit to the electrical supply, and keep them for future reference.

The UFO Triton range of illuminators are compact tungsten halogen illuminators, suitable for use with polymer fiber.

The Triton is suitable **ONLY** for use in countries with 120VAC mains electrical supplies.

The Triton features low noise and heat output, an optional factory installed 6 color colorwheel and is available with a choice of two lamp sizes - 75W and 100W.

IMPORTANT

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.



Do not operate without complete lamp enclosure in place or if lens is damaged.

KEEP HARNESS IN PLACE WHEN IN OPERATION.

CAUTION: Hot surface. Keep away from curtains and other combustible materials.

WARNING: RISK OF FIRE/INJURY TO PERSONS. Keep away from combustibles. Unplug to change lamp. Do not touch lamp.

WARNING: RISK OF FIRE. Do not place lamp where the overhead surface is closer than 200mm (8") to the light source.

IMPORTANT SAFETY INFORMATION

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS

IMPORTANT SAFETY INSTRUCTIONS

Lighted Lamp is HOT:

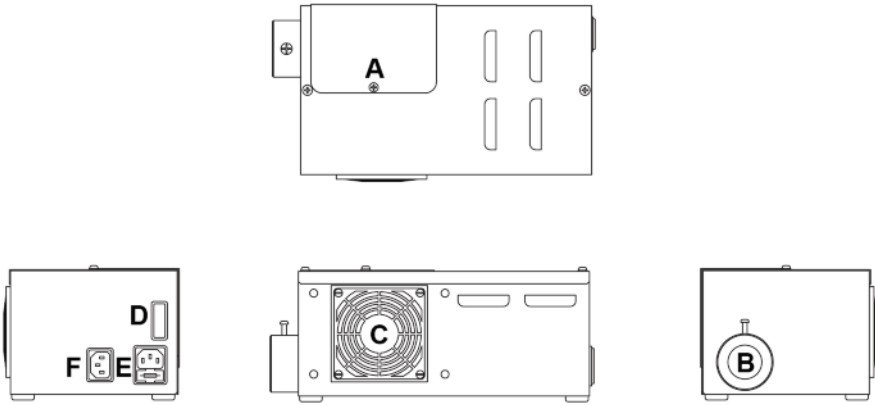
WARNING – To reduce the risk of FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS:

1. Unplug and allow to cool before replacing lamp.
2. Lamp gets HOT quickly! Only contact plug when turning on.
3. Do not touch hot lens, guard, or enclosure.
4. Do not remain in light if skin feels warm.
5. Do not look directly at lighted lamp.
6. Keep lamp away from materials that may burn.
7. Use only with a 100W or smaller lamp.
8. Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp.
9. Do not operate product with missing or damaged guard, lamp containment barrier, lens or fiber-optic harness.

SAVE THESE INSTRUCTIONS

- Always disconnect the unit from the power supply before opening or attempting to perform any work on it.
- **UNIT MAY GET HOT** - always allow unit to cool down before handling or moving it.
- Do not touch or attempt to remove the lamp while it is hot.
- Ensure that the power supply is correct for the unit before powering it up.
- Always ensure that the unit is properly **GROUND**ED.
- Do not expose the unit to rain or moisture.
- Keep away from all combustible materials.
- Never attempt to tamper with the wiring or other internal components.
- Keep the unit away from gas, oil and any other flammable or explosive materials.

ILLUMINATOR LAYOUT



Item	Description
A	Lamp / Colorwheel access hatch
B	Fiber port
C	Cooling fan
D	Power LED
E	Power input connector & fuse holder
F	Optional secondary power connector for remote colorwheel switch. On units with integral colorwheel switch it is placed here. On non colorwheel & continuous colorwheel models there is a blanking plate.

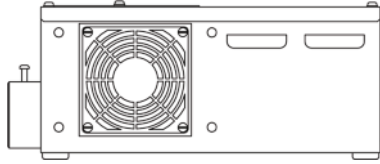
INSTALLATION GUIDE

In order for the Triton illuminator to function safely and efficiently it must be installed according to this user manual. Please read all sections thoroughly before switching on the illuminator.

POWER SUPPLY REQUIREMENTS

Before plugging in the unit, please make sure that the supply is correct. Failure to do so could cause the unit to malfunction. The unit requires a 120VAC, 60Hz supply and it **MUST BE GROUNDED**. The illuminator power supply units are provided with a cordset fitted with a standard 3-pin plug.

POSITIONING THE UNIT



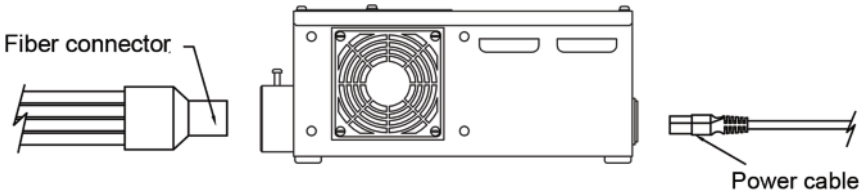
The Triton illuminator is only suitable for horizontal mounting, supported by its four mounting feet.

Verify that the supporting structure can safely bear the weight of all installed units, cables and any other equipment.

INSTALLATION GUIDE (Continued)

CONNECTION

There are 2 or 3 connections required, depending on the model - the fiber port and the line voltage power supply are required to be connected on all models. On units with a remote switch to control the colorwheel, that should also be connected. Connect and secure the fiber optic connector to the fiber port before connecting the electrical supply or the remote switch. Never run the illuminator with the fiber connector unplugged.



After installing and connecting the unit as described above, plug the power lead into the line voltage supply and switch on. The illuminator will start up automatically. Light will be output from the port connector and out through the fiber harness.

If no light is produced, please consult the TROUBLESHOOTING section in this manual.

CLEARANCE / VENTILATION

It is recommended that a gap of 200mm (8") or more is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation.

COLORWHEEL

Colorwheel control depends on the model variation purchased:

UL-UFO-P - No colorwheel is fitted.

UL-UFO-PC - The colorwheel rotates continuously.

UL-UFO-PCS - The colorwheel can be switched on or off using the built in switch.

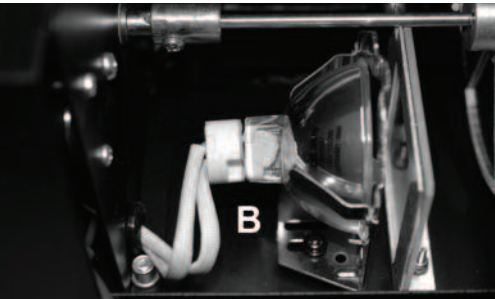
UL-UFO-PCR - The colorwheel can be switched on or off using the remotely located switch which is supplied with the unit.

MAINTENANCE

LAMP REPLACEMENT



- 1) Unplug unit from electrical supply and allow to cool.
- 2) Remove the single screw (A) which secures the unit's lamp access hatch.



- 3) Open the lamp access hatch and you will see the lamp sitting in its holder and attached to a ceramic plug (B).

- 4) With the lamp still attached to the ceramic plug, pull it upwards and out of its holder (C).

- 5) Pull the ceramic plug from the end of the old lamp (D).



- 6) Connect the new lamp to the ceramic plug making sure that you use a lamp of the same specification as to that which was removed. Also make sure not to touch the front of the lamp.

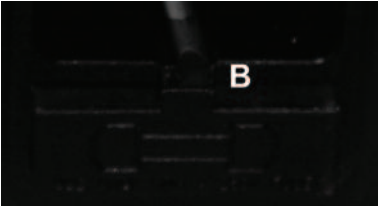
- 7) Slide the lamp back into its holder.

- 8) Close the lamp access hatch and secure with the retaining screw.



MAINTENANCE (Continued)

FUSE REPLACEMENT



- 1) Unplug unit from electrical supply and allow to cool.
- 2) The fuse holder (A) is located under the mains power input socket.
- 3) Using a small screwdriver, carefully insert it into the slot on the top of the fuse holder (B), and prise outwards.
- 4) The fuse can now be unclipped from its holder and replaced. A spare is provided inside the storage compartment at the rear of the holder.
- 5) Slide the fuse holder back into its slot until it clicks into place.

CLEANING THE UNIT

Disconnect unit from power supply and allow to cool before attempting any cleaning of the unit.

The body of the unit can be cleaned with a soft, damp cloth - do not use any abrasives on the unit.

The fans and vents should be kept clear by periodically blowing them out with compressed air.

Non-abrasive glass cleaner can be used to clean the glass lens inside the unit.

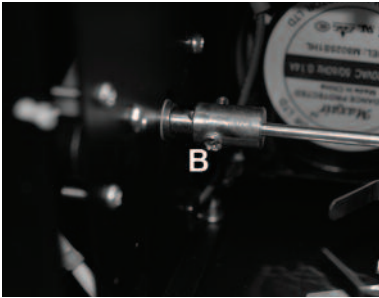
MAINTENANCE (Continued)

REMOVING THE COLORWHEEL (MODELS UL-UFO-PC)

On units with a continuously revolving colorwheel, the wheel may be removed by the end user to give static white light output.

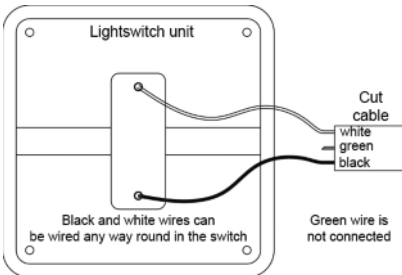


- 1) Unplug unit from electrical supply and allow to cool.
- 2) Remove the single screw (A) which secures the unit's access hatch.
- 3) Open the access hatch and you will see the colorwheel mounting rod is secured with a single screw through a brass bush. (B).



- 4) Remove the screw and carefully pull the rod towards the front of the illuminator. Be careful to avoid damage to the colorwheel. Remove the colorwheel and rod from the illuminator.
- 5) Close and secure the access hatch.

WIRING TO AN EXISTING SWITCH (model UL-UFO-PCR only)



Triton models UL-UFO-PCR are supplied as standard with a colorwheel control switch on a flylead, which is powered by the illuminator. In cases where it is required to control the illuminator with an existing switch, the supplied switch can be cut from the fly lead and this lead can be used to wire into the existing switch.

Please see the wiring diagram on the left for connection details.

IMPORTANT - A maintenance record table is provided overleaf for the purposes of recording ALL maintenance undertaken on the lightsource, and MUST be filled in accordingly.

Please note that a record of all maintenance **MUST** be kept in the table below, indicating what maintenance was undertaken and when.

Date	Maintenance Undertaken

TROUBLESHOOTING

Problem	Probable cause(s)	Remedy
Unit is completely dead - Lamp and LED power indicator are not illuminated	Main fuse blown	Check and replace fuse.
	No power to unit	Check that power is switched on and power supply is plugged in.
LED power indicator & fan are on, but no light is output	Lamp blown	Replace lamp
	Thermal switch activated	Allow unit to cool for 5 to 10 minutes and investigate reason for overheating
	Lamp wires are not connected	Check plug connection - ensure lamp is properly seated in its holder and the pins are fully mated
Poor light output	Lamp needs replacing	Replace lamp
	Unit needs cleaning	Clean glass lens
	Incorrect power supply	Ensure power supply is 120VAC 60Hz
	Fiber port connector not plugged in correctly	Ensure fiber port connector is plugged in correctly, and that the screw is tightened up properly
Lamp going on & off randomly	Unit is overheating	Allow unit to cool for 5 to 10 minutes and investigate reason for overheating

TECHNICAL SPECIFICATIONS

Description	75W	100W
Port connector size	30mm	30mm
Fiber type	Glass/PMMA	Glass/PMMA
Line voltage	120 VAC 60Hz	120 VAC 60Hz
Lamp power	75W	100W
Input power @ 120VAC	82.5VA	100VA
Running current @ 120VAC	0.75A	1.0A
Min. ambient temp.	-20°C	-20°C
Max. ambient temp.	40°C	40°C
Thermal protection	Thermal switch	Thermal switch
Fan type	80mm crossflow	80mm crossflow
Main fuse	2A	2A
Lamp type	Tungsten halogen	Tungsten halogen
Lamp model	EYF	Osram 64637
Lamp colour temp.	3000k	3000k
Operating environment	Indoor / dry	Indoor / dry
Material	Sheet steel	Black
Color	Black	Black
Size	279x153x121mm	279x153x121mm
Weight	3.7kg	3.7kg

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