



## FREQUENTLY ASKED QUESTIONS (FAQs)

QUESTION	ANSWER
1. How do I remove the lightsource from the floorstand?	<b>Lift</b> the unit straight up so that the bracket on the right side slides up/off engaging pins of the floorstand
2. How do I change the lamp in a xenon lightsource?	<b>Unplug</b> the unit. <b>Open</b> the door. <b>Pull</b> out the lamp module. <b>Put</b> a new lamp in the module; making sure the lamp faces “forward” and the module is pushed all the way in securely. <b>Close</b> the door securely.
3. How do I reset the hour meter after changing the lamp?	Below the meter there is a protruding “black button” with a 3mm hole in the middle of it. The reset control is a tiny pushbutton about 5mm into the hole, operated by turning the unit on and pushing the button with something small enough to go in the hole.
4. What do I check if there seems to be no power to unit and the lamp will not ignite?	<b>Check</b> that the <b>power cord</b> is fully plugged in at both ends. <b>Check</b> that the <b>lamp door</b> is shut to engage the safety interlock switch. <b>Check</b> that the <b>outlet</b> actually has power. <b>Check</b> the fuses.
5. The light is dim, how do I know if the problem is with the cable, headlight or lightsource?	If any other cables, headlights or lightsources are available switch one component at a time to see if output improves.
6. What does it mean when smoke comes from the unit?	1) This could be a result of contamination on the lightsource end of the cable or from an inferior cable. Remove the cable from the lightsource. If the smoking continues, it could be a power supply issue. 2) This could be a power supply issue. Unplug it or switch it off immediately and contact Sunoptic Technologies® repair department.
7. Why won't the intensity control knob turn properly?	The dimming plate is out of position, some part of the mechanism is jammed, or the belt is dislodged or broken. Unit will need to be sent to Sunoptic Technologies® repair department for repair.

# TROUBLESHOOTING

## Image Too Dark

- Turn up the light intensity control on the light source
- Check the lightsource for old bulbs, as appropriate  
See replacement product section for hour ratio and replacement #
- Check the fiber optic cable for damage

## Image Too Bright/Excessive Glare

- Turn down the light intensity control on the lightsource

## **The lightsource was working. I turned it off and a short time later I turned it back on. Now the lamp will not light.**

- This is possibly a hot restrike issue. Hot lamps are harder to start than cold lamps. However, this is rarely a problem with a xenon lamp unless it has a large number of runtime hours. Allow the lamp to cool for about 3 minutes and it should restart. If it will not restart, review other possible causes for the lamp not to illuminate below.

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## The Lightsource Will Not Illuminate

- Check the power cord for proper connection
- Check the power switch for the On position
- Make sure the lamp drawer is securely fastened
- The lamp may no longer be working
- Over heating may have occurred  
Keep the lightsource power in the On position; this will allow the internal fans to keep running to cool the lightsource.  
The cooling process may take 5 – 15 minutes.

## Why would the Lightsource Over Heat

- Proper ventilation is required  
Position lightsource so ventilation can be achieved  
DO NOT cover the lightsource with Surgical Drapes
- Mechanical errors can occur in the interior fans causing the lightsource to malfunction - BIO Medical assistance needed

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## How Can I Determine When the Lamp has Expired

### **Three indications for lamp replacement**

- Milky white fog over the front of the glass of the lamp
- Dark shadow will appear inside the lamp
- Interior of the lamp's center will appear foggy

### Is Additional Maintenance to be performed when Replacing a Lamp in the Lightsource

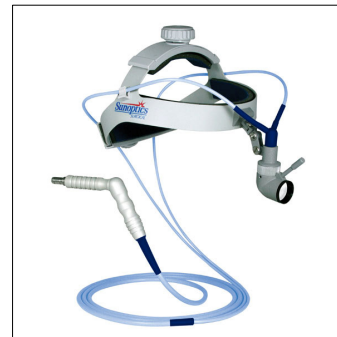
- Regular dusting to remove debris and cleaning the lens and mirror with a water solution and non abrasive cloth to enhance illumination and decrease the chance of overheating to occur in the lightsource should be done on a regular basis

### How can Maximum Illumination be Achieved?

- Proper cleaning and maintenance performed on a regular basis
- Headlight Fiber Optic Cable Maintenance  
*excessive fiber damage will cause the illumination output to decline*
- Lamp Replacement Maintenance  
*excessive hours on a lamp will cause the illumination output to decline*

### The Headlight Module when Illuminated is Showing a Dark Shadow or Spots

- Dark shadow indicates the light intensity knob on the lightsource needs to be turned up
- Multiple dark spots indicate that debris is on the lens of the module and should be cleaned with alcohol and non-abrasive cloth



How can my Fiber Optic Headlight Cable be Cleaned/Sterilized

**CHECKING FOR**

**DAMAGED FIBER OPTICS**

**Aim one end of the cable towards a light and observe the other end. Check for damaged fibers (e.g., black dots or gray areas).**

**A combination of broken fibers in the cable and lamp hours over the lamp guarantee will result in loss of light. The fiber damage percentage should not exceed 30%.**

**See graphic example**

