

**PLEASE READ THE ENTIRE MANUAL
BEFORE ATTEMPTING TO INSTALL
OR USE THE LUMEN 200 OR
LUMEN 200PRO**

IMPORTANT SAFETY INFORMATION

- Before using the system, please follow and adhere to all warnings, safety and operating instructions located either on the product or in this Quick Start Manual.
- Do not expose the product to water or moisture.
- Connect the AC power cord only to designated power sources as marked on the product.
- Ensure that the ventilation slots in the controller case have a minimum of 100mm (4 inches) of clearance from blockages.



• **WARNING:** Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws.



• **WARNING:** The method in which the lamps are disposed of must comply with the local rules & regulations for disposal of hazardous materials.

WARNINGS



• Eye damage may result from directly viewing the light produced by the lamp used in this product.



• Always make sure the light guide is properly inserted into the collimator which is firmly attached to the microscope using the adapter provided and into the Lumen 200/PRO, before turning on the power to the unit.

CAUTION



• Never look into the emitting end of a light guide. The light could severely damage the cornea and retina of the eye if the light is observed directly. Appropriate eye shielding must be used at all times, clothing should be used to protect exposed skin.

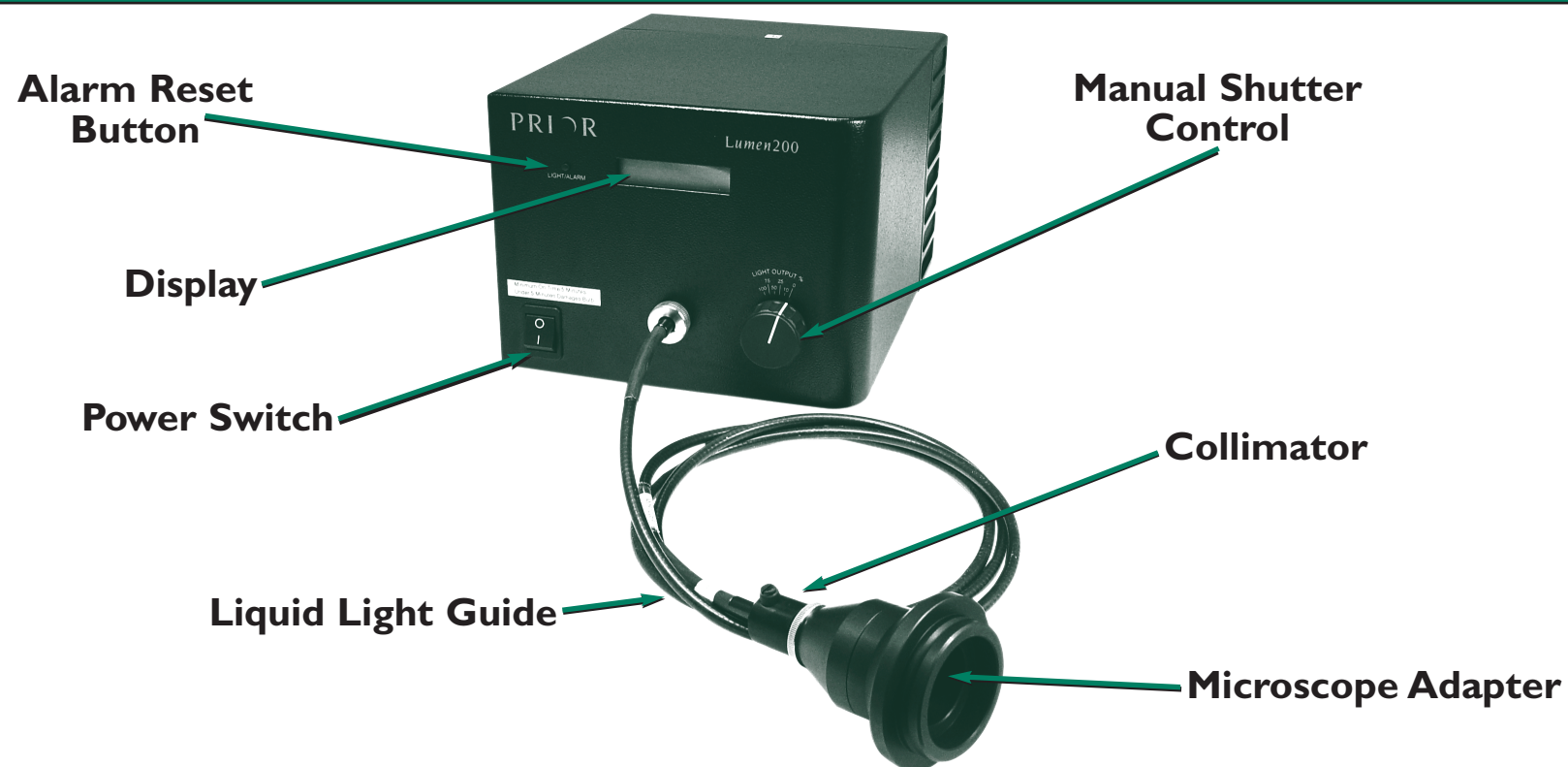


• Never place the end of an emitting light guide near skin as this may result in burning and damage to the skin.



• Never place the end of an emitting light guide near a flammable substrate as sufficient power is emitted from the light guide to ignite flammable substances.

QUICK START INSTRUCTIONS



CONNECTING TO THE MICROSCOPE

Once the lamp is installed, the Lumen is ready to be connected to the microscope - see opposite side of guide for lamp installation.

1. Place the Lumen in a safe location and ensure a minimum of 100mm (4 inches) of clearance from obstructions for the fan outputs.
2. Unpack the liquid light guide from the foil packaging and remove both red plastic caps from the light guide.
Note: It is important to remove the red caps before connecting to the light guide to avoid damage on power up.
3. Insert the clamping nut end of light guide into the threaded opening on the front of the Lumen and thread the clamping nut into the Lumen.
4. Tighten the connector firmly.
5. Loosen the thumb screw on the back of the collimator. Firmly push the light guide into the hole ensuring it has reached its end stop and tighten the thumb screw.
6. Connect collimator to microscope.

STARTING UP THE LUMEN

WARNING: Do not power the Lumen without the light guide attached to both the Lumen and microscope. The Lumen should only be used on a level surface.

1. Connect the power cable to the Lumen.
2. Ensure the light guide is attached to both the Lumen and microscope.
3. Switch the Lumen power on.
4. Allow 1-5 minutes for light to reach operating output.

WARNING: Do not power down the unit within five minutes of power up. This may reduce the effective lifetime of the lamp.

SHUTTING DOWN THE LUMEN

The following warnings apply as damage to the lamp may result if instructions not followed:

WARNING: Do not shut the unit down within five minutes of powering up the unit.

WARNING: After shutting down the unit allow five minutes before powering up the unit again. Allow 30 minutes before changing the lamp. Failure to do so is likely to result in damage to the lamp.

LUMEN 200 & LUMEN 200PRO LAMP INSTALLATION GUIDE

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INSTALLING THE LAMP

VISIT WWW.PRIOR.COM TO VIEW THE LUMEN LAMP INSTALLATION VIDEO

Required Equipment: Lumen 200/Lumen 200PRO unit
• Metric Allen Wrenches • Prior Supplied Lamp

1 Disconnect the Lumen power supply, (if the Lumen has been previously switched on, wait for 30 minutes to allow lamp to cool).

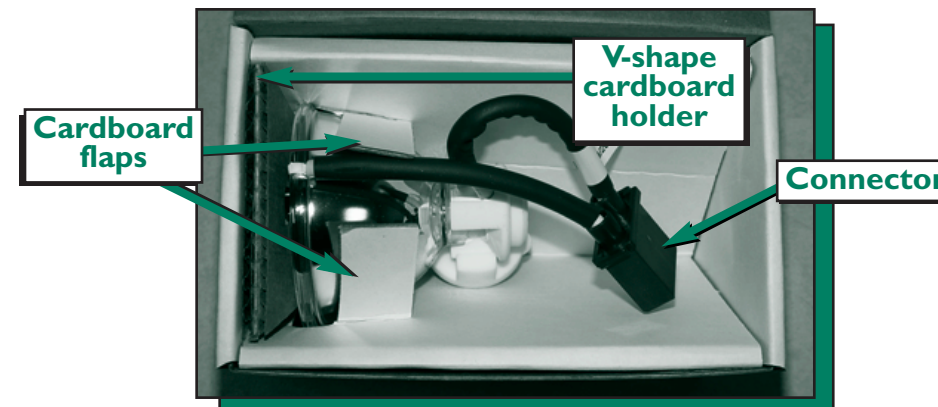
2 Place the Lumen upside down on a flat padded surface. The packing material that the Lumen is shipped with works well for a padded surface.

3 Remove four screws and the lamp access panel, as pictured in the photo on the right.



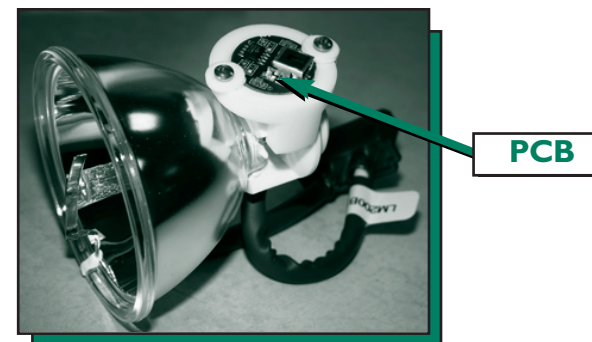
4 Remove lamp from carton. Take care not to touch the inside surface of the lamp (see diagram below):

- a. Open top of carton
- b. Remove V-shaped cardboard holder
- c. Push cardboard flaps back
- d. Lift lamp out of carton

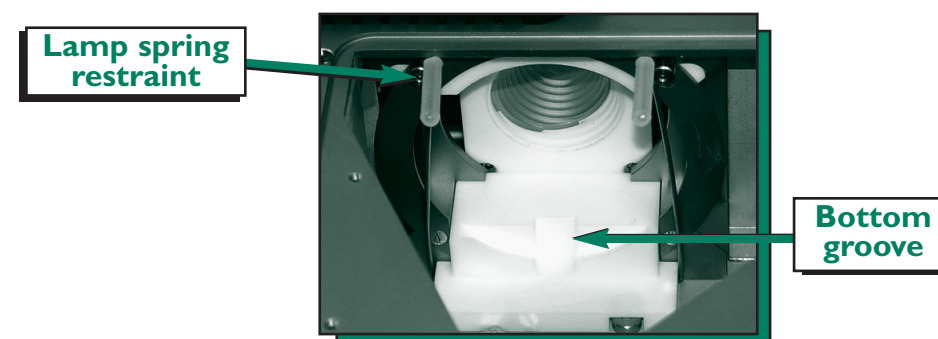


5 Rotate the bulb so that the cables and connector hang down into the bulb chamber. Plug connector on lamp into the socket in lamp chamber, ensure it is pushed firmly into position.

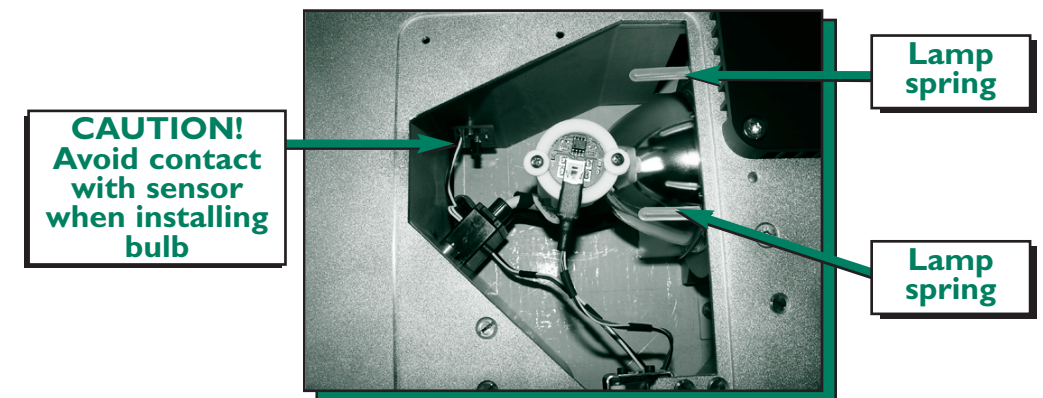
- a. Confirm that the lamp is orientated with the PCB facing upwards.



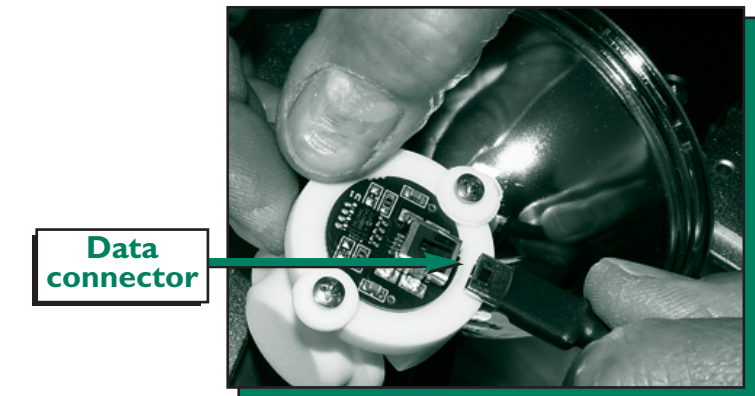
6 Locate the bottom of the bulb (as indicated in the above photo). Place the wire at the bottom of the bulb into the groove in the bottom of the lamp chamber (as indicated below). Center the bulb in the circular lamp mount.



7 Lift the spring towards the bulb, as you do the bulb will be pushed into the correct position. Click the springs all the way into the lamp spring restraints (see images below).



8 With the bulb now firmly in place, plug the data connector into the PCB.



9 Place the Lumen upside down and replace the lamp access panel using the four screws provided. A complete installation video is available at www.prior.com.



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