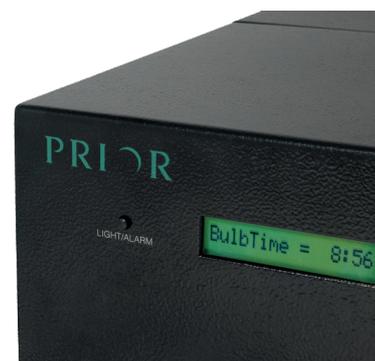


Lumen 200, Lumen 200PRO and Lumen 200S Metal Halide Lamps

The popular Lumen 200 from Prior Scientific retains the spectral output of traditional mercury (HBO) bulbs, whilst providing vastly improved light quality and a device that is both longer lasting and easier to use. It is ideal for use throughout a vast array of fluorescence applications, and can replace an HBO bulb with a minimum of both cost and disruption to the existing set-up. Offering good value, a range of benefits over HBO bulbs, and high light quality, the Lumen 200 has the potential to vastly improve the quality of your fluorescence microscopy.

- The bulb's lifespan of 2000 hours, compared with a mere 200 hours for a conventional HBO bulb, means that bulb changes are now much less frequent - which means both less inconvenience and lower running costs
- An LED display clearly indicates the remaining time left until bulb replacement
- The light produced by the 200W is similar in output, but superior in quality, to that of an HBO - so the same fluorophores can be used and observed as before
- Connecting to the microscope via a liquid light guide, heat and vibrations transferred to the sample are significantly reduced. The liquid light guide also utterly eliminates the need for time consuming alignment of the bulb after replacement
- Adapters are available for all modern microscopes, and are also fully compatible with the complete range of filter wheels and shutters produced by Prior



A clear display shows how much operational lifetime the bulb has remaining



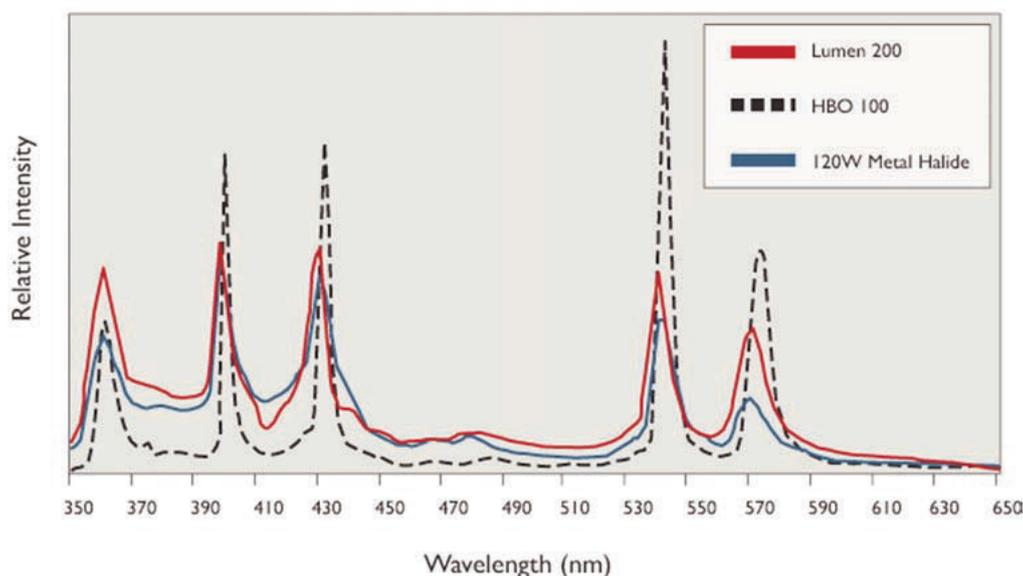
Adjustment of the brightness of the bulb is quick and easy, preventing photobleaching

Lumen 200 Metal Halide Lamp

Light Quality

Producing the best images requires high quality light. The Lumen 200 produces light that, whilst similar to an HBO bulb, is superior in several respects. Intensity peaks with a larger bandwidth improve excitation, and the overall light brightness is greater. The liquid light guide homogenises the light, which combined with the bulb design means that bulb alignment is no longer needed, whilst reducing the transfer of heat and vibration from the Lumen 200 to the microscope and so reducing disruption to imaging. Finally, the stabilised DC power supply provides highly uniform light throughout the bulb's lifespan, meaning that the Lumen 200 is ideal for quantitative and comparative fluorescent applications.

Lumen 200 Spectral Output



Lumen 200S

Offering all of the advantages of the standard Lumen 200, the Lumen 200 S has a number of features that further enhance its capabilities. Controllable via the ProScan™ controller and software, the Lumen 200S allows for a greater level of automation than provided by the Lumen 200 - ideal for time-lapse experiments. A shutter that closes in less than 30 ms means very brief exposure periods are now a possibility, reducing photobleaching and damage to valuable samples.

Lumen 200 Pro

Offering all of the advantages of the standard Lumen 200, and able to be controlled via computer, the Lumen 200 Pro is suitable for the most demanding high-end fluorescence applications. Integration into the ProScan™ control system and software is quick and easy, allowing the lamp to become part of a highly automated and precise microscope system with high performance scanning stages and focussing devices.

Furthermore, an internal, motorised six position filter wheel allows rapid (55 ms) selection of wavelengths - crucial for time sensitive applications. A motorised variable aperture shutter can control the light transmitted in 1% increments and can close completely in less than 20 ms; reducing the risk of photobleaching valuable samples and extending live cell studies. These filters and shutters are fully controllable via the ProScan™ system.

Lumen 200
Metal Halide Lamp

Products available

Product	Description
L200	Lumen 200 - 200W Fluorescence illuminator with 2m liquid light guide, bulb and microscope adapter*.
L210	Lumen 210 - 200W Fluorescence illuminator with CY5 and CY 5.5 filters, 2m liquid light guide, bulb and microscope adapter*
L200S	Lumen 200 S - 200W Fluorescence illuminator with motorised shutter, USB cable, RS232 Shutter cable 2m liquid light guide, bulb and microscope adapter*
L200P	Lumen 200 Pro - 200W Fluorescence illuminator with integral 6 position motorised filter wheel, variable aperture shutter, 2m liquid light guide, bulb and microscope adapter*. Requires 2 filter wheel controller
L210P	Lumen 210 Pro - 200W Fluorescence illuminator with CY5 and CY5.5 filters, integral 6 position motorised filter wheel, variable aperture shutter, 2m liquid light guide, bulb and microscope adapter*. Requires 2 filter wheel controller
L220P	Lumen 210 Pro - 200W Fluorescence illuminator with special extended filters for CY7 and UV, integral 6 position motorised filter wheel, variable aperture shutter, 2m liquid light guide, bulb and microscope adapter*. Requires 2 filter wheel controller
LM375	Replacement metal halide lamp (Operational lifetime approximately 2000 hours)
LM587	Liquid light guide (2m)
LMLG3M	Liquid light guide (3m)

* A wide range of adapters are available. When ordering the unit, please specify which microscope it is to be used with. Adapters are also available separately.

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