Photodynamic Therapy for the Treatment of AMD*
At Lumenis, we constantly look for opportunities to expand the medical applications of laser technology. As clinical capabilities within ophthalmology increase, so do your options in selecting a laser. With over thirty years of medical laser experience, there is an unparalleled history—and history in the making—at Lumenis. Indeed, Lumenis’ focus on ophthalmology stretches from pioneering the argon photocoagulator in the early ‘70s to partnering today in the exciting possibilities with photodynamic therapy. Whatever the specific technology, a relationship with Lumenis is more than a one-time purchase — it’s a promise that you’ll be in good company, with someone to count on, for years to come.

**Lumenis’ ophthalmic lasers**

The most comprehensive line of lasers for ophthalmic surgery from the innovator in ophthalmic lasers and backed by the industry’s most extensive field service network.

- **Opal™ Photoactivator™**
  The leading Photodynamic Therapy (PDT) laser, FDA approved for Visudyne therapy.

- **Elite™ Solid-State Diode-Pumped 532nm Laser**
  A modern, advanced ophthalmic laser system in a small, lightweight package that connects to any standard 110-V or 220-V outlet.

- **Novus® Omni™ Multi-Wavelength Photocoagulator**
  For the retinal specialist who needs the capability to treat the most demanding retinal disorders.

- **Novus® Verdi™ Diode Pumped Green Photocoagulator**
  Portable and rugged solid-state photocoagulator for the general ophthalmologist, hospital outpatient clinic, and operating room.

- **Novus® 2000 Argon Laser Photocoagulator**
  2.5 watt argon laser ideal for the hospital operating room since it can be used with Otoprobes™ for inner-ear procedures, as well as for endprobe, LIO and slit lamp delivered ophthalmic procedures.

- **Ultima™ 2000 Argon Laser Photocoagulator**
  1.5 watt portable argon laser that operates from a standard electrical outlet for performing general ophthalmic laser photocoagulation.

- **Aura™ Nd:YAG Photodisruptor**
  Precision capsulotomy laser designed for the busy, multi-physician practice, surgery center or outpatient clinic.

- **Epic™ Nd:YAG Photodisruptor**
  Portable capsulotomy laser designed for the private practice to clip-on to a Haag-Streit or similar diagnostic slit lamp, that can also be combined with the Ultima Argon Laser Photocoagulator on a single slit lamp.

- **Selecta® Glaucoma Laser System**
  532nm Q-switched Nd:YAG laser for performing Selective Laser Trabeculoplasty (SLT), a non-invasive therapy for open angle glaucoma that is not associated with the risks of non-compliance or systemic side effects.

- **Allegretto™ Excimer Laser**
  Wavefront-guided scanning spot excimer laser system for performing state-of-the-art refractive vision correction surgery. (Investigational device. Federal law restricts this device to investigational use in the U.S.)
If you are considering a PDT laser

Opal™ Photoactivator™

When it comes to laser treatment of AMD patients with predominantly classic subfoveal choroidal neovascularization (CNV), nothing compares to the Opal™ Photoactivator™ from Lumenis. Developed specifically for use with Visudyne™ (verteporfin for injection) therapy, the Opal Photoactivator offers features you won’t find on any other laser—features that ensure the highest level of patient care and safety, eliminate inconvenience, and reduce chances of error. All from a company dedicated to meeting your ophthalmology needs.

Built-in safety

A failing laser fiber can make it difficult to determine the amount of energy that reaches your patient which may compromise the quality of the treatment.

The Opal Photoactivator offers the advanced new SmartLink™ with Power√™ output monitor and damaged laser fiber sensor. This innovative feature offers the unique ability to measure the laser power at the LaserLink™, after it travels through the optical fiber, minimizing the potential for inadequate drug activation due to low fiber transmission.

* Visudyne therapy for the treatment of patients with predominantly Classic Subfoveal Choroidal Neovascularization (CNV), due to age-related macular degeneration, pathologic myopia or presumed ocular histoplasmosis.
trouble-free

PORTABILITY

When you work at different treatment sites, you need a laser that is easy to transport, install and link to a variety of slit lamps — without the need for a service engineer or recalibration.

Only the Opal Photoactivator provides a user-installable clip-on, clip-off link to a variety of slit lamps. You can easily transfer the laser from one site to another without requiring a service engineer or recalibration. Just put the Opal Photoactivator in its carrying case, take it where you want to go, and set it up yourself.

BEAM ENERGY consistency

Inconsistent energy across the diameter of the spot could produce "hot spots," frequently around the fiber edges, which may result in uneven drug activation.

Lumenis engineers found that fiber optic systems deliver inconsistent energy across the diameter of the treatment area, creating "hot spots." The unique beam homogenizer on the Opal Photoactivator delivers uniform energy across the treatment zone to prevent "hot spots" and to protect against uneven drug activation.
exceptionally EASY TO USE

An easy-to-use interface can save time and reduce errors due to manual calibration and adjustment.

Concentrate on the treatment, not the instrumentation.
The Opal Photoactivator offers:
• Touch-screen user interface for safe, error-free operation—even in the dark.
• Automatic contact lens list adjusts laser energy for the magnification of the contact lens chosen. Look-up tables and manual entry errors are eliminated.
• Adjustable beam makes it easy to see through the slit lamp to the treatment spot over the lesion zone.
• Direct spot size entry permits adjustment while observing the beam on the retina through the slit lamp.

SUPERIOR reliability and service

The last thing you need is for your laser to fail during a treatment. Protect yourself from unscheduled downtime and expensive repair by choosing a laser company with a proven track record of service and support.

The Opal Photoactivator comes with a 24-hour service warranty—either we will repair your laser or you will have an Opal laser on loan to ensure minimal downtime. And the Opal laser comes with a two-year warranty on parts and labor. When you work with Lumenis, you’re working with a company that is dedicated to your success.
**Opal™** Photodynamic Therapy for the Treatment of AMD*

**Specifications**

<table>
<thead>
<tr>
<th>Laser System</th>
<th>Diode; continuous wave solid state laser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>689 ± 3nm</td>
</tr>
<tr>
<td>Power to the Cornea</td>
<td>5 – 300 milliwatts delivered to slit lamp focal plane</td>
</tr>
<tr>
<td>Retinal Spot Size</td>
<td>Up to 6400 microns</td>
</tr>
<tr>
<td>Weight</td>
<td>7 lbs. (3.2 kg)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7&quot; W x 12 &quot; L x 5&quot; H (18cm W x 30cm L x 13cm H)</td>
</tr>
<tr>
<td>Cooling</td>
<td>Air cooled</td>
</tr>
<tr>
<td>Aiming Beam</td>
<td>Red diode, 635nm</td>
</tr>
<tr>
<td>Delivery Options</td>
<td>LaserLink™ slit lamp adapter (which is compatible with Zeiss SL130, Zeiss 305L, and Haag-Streit 900BM)</td>
</tr>
<tr>
<td>Electrical Requirements</td>
<td>100 – 230 VAC, 50/60 Hz, 110 W</td>
</tr>
</tbody>
</table>

Adverse effects of the Opal Photoactivator laser system could be related to inappropriate laser powers or improper use. Such situations should not occur if the conditions and instructions for use, as described in the laser system User Manuals and Visudyne Package Insert, are followed.

Use of incompatible lasers that do not provide the required characteristics of light for the photocactivation of Visudyne could result in incomplete treatment due to partial photocactivation of Visudyne, overtreatment due to overactivation of Visudyne, damage to surrounding normal tissue, and/or damage to the delivery system which could additionally create an optical hazard for medical personnel and/or patients.

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**Lumenis Customer Care**

At Lumenis, we understand the importance of delivering service and technical support of the highest quality. Lumenis’ service organization is the largest in the industry with unmatched on-site response programs. When you buy a laser or light-based system from Lumenis, you make an investment in the world’s most innovative medical laser technology. The satisfaction of our customers is the ultimate goal of our business. For customer service, technical support, parts and accessories please call toll-free at 1-877-LUMENIS (1-877-586-3647).

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