Vision One
The Next Generation of Photocoagulation Laser Systems
Green (532 nm) is the wavelength of choice for treating a range of retinal diseases (e.g. diabetic macular edema, proliferative retinopathy, etc.), as recommended by the ETDRS and the DRCR network. It is not recommended for treatment of retinopathy of prematurity (ROP), or in case of severe media opacities such as severe cataract, vitreal hemorrhages, and opaque cornea.

Yellow (577 nm) has a better penetration and less scattering compared to green. It is therefore excellent for treating retinal diseases in the presence of severe media opacities. In addition, due to its high absorption in hemoglobin, it is highly efficient for sealing micro aneurysms. Moreover, due to its null absorption in macular Xanthophyll, it is considered safer for treatment near the fovea. As for green, it is not recommended for treatment of ROP.

Red (659 nm) is not absorbed in hemoglobin, and has better penetration and less scattering compared to both yellow and green. It can therefore be used for treatment of ROP, and also for treatment of deep lesions such as choroidal melanosas and choroidal neovascularization.
Vision One with SureSpot™ Optics

Sharply defined and evenly distributed power on the retina;
Safe & low-power density at the cornea and lens

Vision One incorporates SureSpot™ Optics Technology in all slit lamp adapters, as with all Lumenis photocoagulators.

The unique and patented Lumenis SureSpot™ technology ensures that the focal point of the laser beam is maintained on the retina while power density on the cornea and lens is minimized for increased safety.

SureSpot™ optics also creates a 50µ single spot. That capability distinguishes Lumenis technology from other lasers that may have a 100µ minimum spot size and/or project a fuzzy laser spot on the retina.

SureSpot™ optics improves treatment efficacy and precision while reducing the potential for damage to anterior-segment tissues. The latter occurrence is especially a concern when using wide-angle lenses that enhance light uptake by the cornea and lens.

<table>
<thead>
<tr>
<th></th>
<th>Defocus Optics</th>
<th>Lumenis Patented SureSpot™ Optics</th>
<th>Parfocal Optics</th>
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<tr>
<td>Titration</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
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<tr>
<td>Low Power density</td>
<td>✓</td>
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<td>on the cornea</td>
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<tr>
<td>Sharp spot on retina</td>
<td>✗</td>
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✔ Safe and Low Power Density on the Cornea and Lens

✔ Sharp Spot Beam Waist on the Retina

![Diagram of eye with laser beam and labels for cornea and retina](image)
Lumenis Ophthalmology is one of the world leading companies in non-refractive ophthalmic lasers. It offers a wide range of products with an unparalleled product support system. Lumenis has comprehensive global installed-base and is highly oriented to keep investing in research and development.

Since introducing the first laser photocoagulator to ophthalmology in 1970, Lumenis has focused on

Vision One  Your Preferred Choice

Intelligent

Voice Confirmation
A unique feature allowing the user to change key parameters while receiving a vocal confirmation of the choice.

Independent Laser Cavities
CaseSaver™ allows the laser cavities to work independently to provide extra safety during treatment.

Smart™ Fiber Technology
Distinguishes an LIO from an endoprobe or LaserLink™, and automatically adjusts the system power settings accordingly. It also alerts in cases the eye safety filter, footswitch or delivery device are not properly attached to the laser console.

Optimized View of Treatment Site
Lumenis ClearView™ filters enhance visibility by eliminating color distortion while optimizing white light transmission.

Lumenis Ophthalmology  Your Preferred Partner
Easy to Use

Touch Screen & Remote Control

- Color touch screen and illuminated remote keypad allows full operation with easy adjustment of parameters and treatment wavelengths.
- PowerEase™ footswitch provides hands-free power adjustment of the laser by toggling left or right within the footswitch housing.
- Smart™ footswitch automatically activates the eye safety filter when detecting foot movement in and out of the footswitch housing.

Dual Fiber Port

Change of delivery devices is fast and easy. Vision One remembers the settings that were last used with each selected delivery device, allowing a smoother transition.

Memory Settings

Five memory settings that can be used to recall commonly used treatment parameters.

Wide Variety of Delivery Devices

Vision One is compatible with a wide variety of accessories and delivery devices – meeting your specific preferences in the outpatient clinic and the OR.

providing ophthalmologists with innovative laser therapies to preserve and improve the sight of patients worldwide.

Lumenis Ophthalmology is renowned for technological breakthroughs and a long list of industry gold standards. Our company pioneered the first argon laser photoocoagulator for ophthalmology; the first approved marketer of Nd:YAG photodisruptor lasers; developed and introduced the breakthrough technology of multicolor photoocoagulation along with the world’s first Laser Indirect Ophthalmoscope (LIO); developed and brought to market the revolutionary SLT technology for managing POAG; and more.

Today, Lumenis Ophthalmology offers you the confidence of doing business with a company that is truly committed to ophthalmology and to meeting your needs.
# Vision One Specifications

**Laser System** | Optically Pumped Semiconductor Laser (OPSL)
---|---
**Wavelength** | 532 nm Green, 577 nm Yellow, 659 nm Red
**Pulse Duration** | 0.01 to 3.0 seconds
**Treatment Intervals** | 0.05 to 1.0 seconds and Single Pulse
**Power** | 532 nm: 50 - 2000 mW | 577 nm: 50 - 1500 mW | 659 nm: 50 - 800 mW
**Spot Size** | 50 - 1000 µm with LaserLink Z or InSight | 50 - 500 µm with H/S LaserLink
**Aiming Beam** | Contrasting color, adjustable intensity 635 nm nominal, <1.0 mW
**Cooling System** | Air-cooled, enhanced with thermoelectric cooling
**Power Requirements** | 100-230 VAC ± 10% 50/60 Hz, <10 Amps, Single Phase
**Dimensions (Console)** | 105 cm x 45 cm x 63 cm | 42” x 18” x 25” (H x W x D)
**Weight** | 57 kg or 126 lb
**Delivery Systems** | Lumenis InSight™ | Lumenis 1000 | LaserLink HS adapter for compatible convergent optics slit lamps | LaserLink Z adapter for Zeiss SL130 and 30SL slit lamps | Laser Indirect Ophthalmoscope (LIO) | Endoprobe | Array™ LaserLink™
**Standard Accessories** | Standard Footswitch, remote control
**Optional Accessories** | Smart and PowerEase™ Footswitch | Comprehensive selection of standard, straight, curved, aspirating, and illuminating endophotocoagulation probes in 20, 23, and 25 gauge sizes | Leica® and Zeiss®: moving and fixed safety filters for surgical microscopes

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**Lumenis® Certified Service** | USA Toll-free 1-877-LUMENIS (1-877-586-3647)