



SmartLIO™

Advanced Laser Indirect Ophthalmoscope

DTY Optical

flexible solutions you can trust

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 **Lumenis®**
Energy to Eye Care

Lumenis Smart LIO™

Advanced Laser Indirect Ophthalmoscope

Lumenis is proud to present the Smart LIO™, its newest high-end Laser Indirect Ophthalmoscope. Smart LIO™ offers a new standard of comfort and reliability:

Ergonomic

Lightweight and well balanced for maximal comfort.

Triple Wavelength Support

Superior optics supporting green, yellow and red wavelengths in one LIO.

Wireless

Unique patented wireless technology.

Patented Intelligent Optical System (IOS)

Ensures that as aperture size changes, the mirror and optics automatically adjust and converge.



Smart Illumination, Filters and Apertures

Illumination rheostat is located on the headband, providing easily accessible, fully controllable light. In addition, the Smart LIO™ has 4 different light filters and 3 aperture sizes (see back cover).

LED Illumination

Bright and white LED illumination provides improved retina visibility and allows for longer battery life.

The new Smart LIO™ is compatible with all Lumenis photocoagulators and multi-application platforms, allowing you to use one LIO for all your retinal care needs:

Smart532

The SmartPulse™ of Retinal Care

Smart532™: green photocoagulator with SmartPulse™ sub-threshold technology.



Vision One

Multi-color photocoagulator. Allows you to choose any desired combination of green (532nm), yellow (577nm) or red (659nm) wavelengths, for optimal clinical outcomes.

Smart SELECTA Trio

SLT + YAG + Smart532™.

The comprehensive solution for ophthalmic practice, providing glaucoma, secondary cataract and retinal therapy within a single unified platform.



Illumination Filter Selection



White Light - Clear settings with no filter. Recommended for inspection of a specific pathology and when a brighter light is desired.



Green Filter - Red free filter. Used for examination of fine blood vessels and identification of microaneurysms.



Blue Filter - Cobalt blue filter for fluorescein angiography.



Diffuser - Extra wide beam of diffused light permits a more relaxed technique during more challenging fundus examinations.

Illumination Aperture Sizes



Large - Suitable for routine examinations through fully dilated pupils.



Intermediate - Designed to reduce reflections when entering a partially or poorly dilated pupil. Also ideal for closer inspection of particular fundal areas.



Small - Ideal for small, undilated pupils.

Smart LIO™ Specifications

LIO Headset

Binocular indirect ophthalmoscope	Modified Keeler
Headset dimensions (all dimensions adjustable)	Height: 22 cm (8.7 in) Width: 25 cm (9.8 in) Length: 38 cm (15 in)
Headset weight	800 g (1.75 lb)
Optical fiber length	5 m / 16.4 feet

Ophthalmoscope Technical Specifications

Illumination intensity	3500 Lux $\pm$ 500*
Illumination patch sizes	20/40/60 mm $\pm$ 10%*
Interpupillary adjustment	48 to 76 mm

Power Supply

Input mains power	100-240 VAC, 700 mA, 50-60 Hz
Power supply rating	12V: 2.5 A (PSU only)

Compatible Lumenis Lasers and Usable Wavelengths (with Appropriate Eye Safety Filters)

Spectra / Spectra DP	532 nm (green); 630–680 nm (aiming beam)
Smart532	532 nm (green); 635 nm (aiming beam)
Vision One	532 nm (green); 577 nm (yellow); 659 nm (red); 635 nm (aiming beam)

Working Distances

Approximately 28 cm (11 in)
Defined as the distance from the center of the LIO laser mirror to the image of the retina.

* Measurements taken at 440 mm from the front surface of the SmartLIO

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