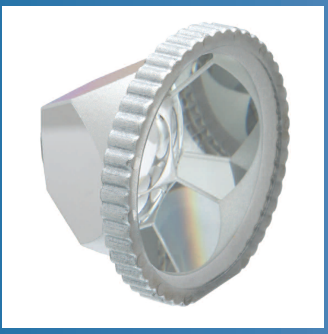
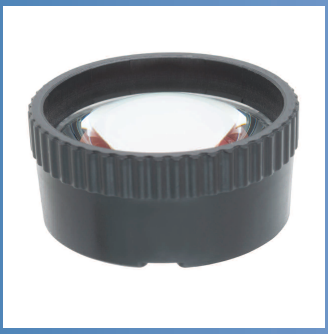
Sensor Medical TECHNOLOGY

Sensor's mission is to provide innovative single-use ophthalmic products that minimize the risk of disease transmission.

Our research staff of PhDs and clinicians work with medical professionals around the globe to develop exceptional products of the highest quality.

Our single-use diagnostic, laser and surgical lenses are designed to lower costs, provide perfect optics for every procedure and remove the burden of cleaning and disinfection between patients.





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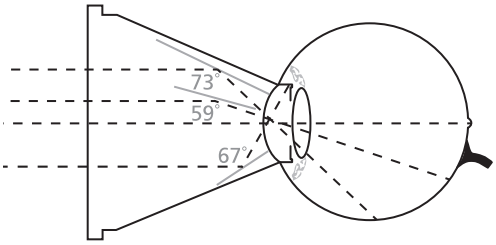
SMT 3 Mirror Lens

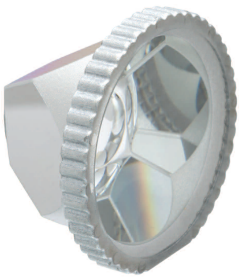


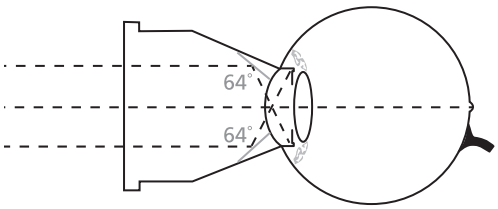
The Sensor Single-use 3 Mirror Lens is a general purpose lens that has a central optic for viewing the posterior pole and mirrors for viewing/treating the anterior chamber angle, peripheral and arcades regions. This lens has a custom anti-reflective coating and can be used with all lasers.

Central axis viewing (no mirror employed) allows examination of the fundus/posterior pole with an approximate 30° field of view. The 73° mirror provides a view of the arcades region outside the posterior pole. The 67° mirror allows examination of the peripheral fundus and the 59° mirror allows access to the angle.

The Sensor 3 Mirror lens has an image magnification of 0.93x which produces a laser spot magnification of 1.08x.

SMT 4 Mirror Gonioscopy Lens

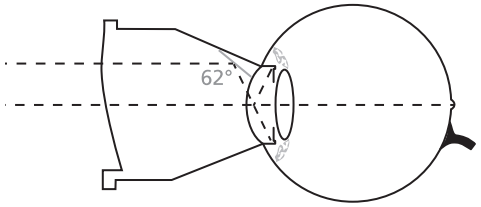




The Sensor Single-use 4 Mirror Gonioscopy Lens provides four 64° mirrors for efficient visualization of the angle with minimal lens manipulation, plus a central optic for viewing the posterior pole. The contact surface geometry allows static or dynamic gonioscopy without methylcellulose.

The Sensor 4 Mirror gonioscopy lens has an image magnification of 0.8x.

SMT Single Mirror Lens

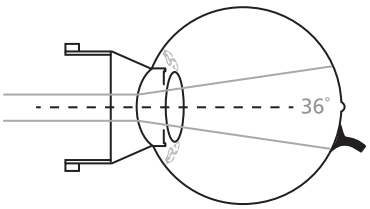


The Sensor Single-use Single Mirror Lens provides an excellent view of the anterior chamber angle for diagnostic and therapeutic procedures, including SLT. With rotation and manipulation of this lens, the entire angle may be observed. This lens has a custom anti-reflective coating and can be used with all lasers.

The lens is designed with a 62° mirror and an integral magnifier, providing a 1.0x magnified view for observation and treatment of structures in the angle.

The lens has an image magnification of 1.0x which produces a laser spot magnification of 1.0x.

SMT Fundus Lens



The Sensor Single-use Fundus Lens is designed to provide a central 0.93x magnified view that allows observation of the macula and optic nerve head area. This lens has a custom anti-reflection coating and can be used with all lasers.

The lens is used for the observation and/or treatment of the macula and fovea, and offers a field of view of 36° of the posterior pole. Additionally, the central vitreous body may be visualized through the lens.

The Sensor Fundus lens has an image magnification of 0.93x which produces a laser spot magnification of 1.08x.

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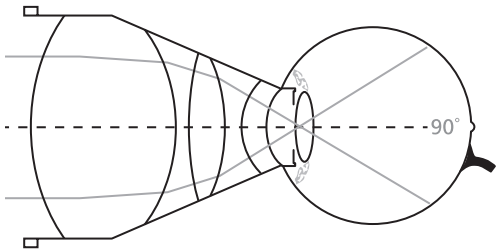
SMT Retina 90 Lens

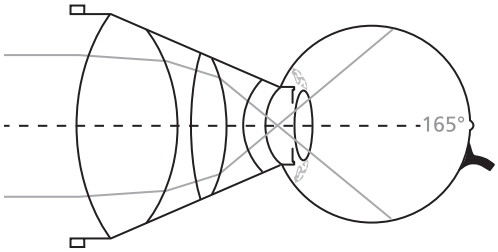


The Sensor Single-use Retina 90 Lens offers a 1.0x magnified view of the retina within the region of the arcades. It is primarily designed to facilitate the diagnosis and treatment of diabetic eye disease and age-related macular degeneration (ARMD).

This lens offers a view that is both detailed and wide field allowing visualization and treatment without the need to calculate the magnification change to the image, optic nerve or laser spot size. This lens has a custom anti-reflective coating and can be used with all lasers.

The Sensor Retina 90 lens has an image magnification of 1.0x which produces a laser spot magnification of 1.0x. The field of view is 90° when static and 120° if used dynamically.

SMT Retina 165 Lens



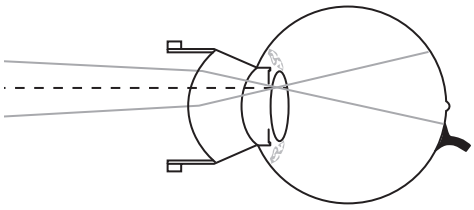
The Sensor Single-use Retina 165 Lens offers a wide-angle view within the region of the equator. With an indirect image magnification of 0.65x it provides a high definition, broad field view of the fundus without the limiting geometry of mirrors.

The lens is used to treat diabetic eye disease; panretinal photocoagulation (PRP) and peripheral retina, and also ARMD.

Simultaneous visualization of the posterior pole and arcades provides optimum orientation during examination and treatment. Further, the specially designed optics minimize image distortion and the associated therapeutic laser distortion in the periphery. This lens has a custom anti-reflective coating and can be used with all lasers.

The lens has an image magnification of 0.65x which produces a laser spot magnification of 1.55x. The field of view is 165° static and 180° dynamic.

SMT Capsulotomy Lens



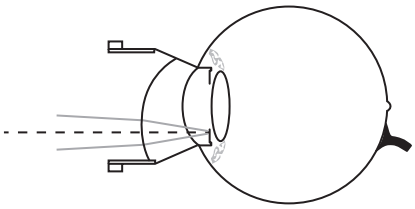
The Sensor Single-use Capsulotomy Lens provides a large diameter optic to view and treat the lens capsule away from the visual axis with a magnification factor of 1.8x. This lens has a custom anti-reflection coating.

The Capsulotomy lens is designed to increase safety and efficacy of the Nd: YAG laser procedure (compared with no lens) by decreasing the laser energy required to achieve dissection of tissue. This lens has been designed with a clear aperture which is 80% larger than competitive lenses.

Treatments away from the visual axis provide a better margin of safety and an improved visual outcome for patients.

The Sensor Capsulotomy lens has an image magnification of 1.8x which produces a laser spot magnification of 0.56x.

SMT Iridotomy Lens



The Sensor Single-use Iridotomy Lens is designed with a large diameter optic to view and treat structures of the peripheral iris. This lens has a custom anti-reflection coating.

The lens is used to perform iridotomies for the treatment of closed angle glaucoma and may also be used to perform sphincterotomies.

The large diameter optic and magnifier allow use of either a green, diode or Nd:YAG laser to complete the therapy.

The Sensor Iridotomy lens has an image magnification of 1.6x which produces a laser spot magnification of 0.63x.

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SMT 90D Lens

The Sensor Single-use 90D Lens provides a clear 0.64x wide field image of the patient's fundus at the slit lamp or in the operating room without the need for corneal contact, methylcellulose or dilating drops. The Sensor 90D lens has a custom anti-reflective coating that minimizes unwanted reflections during observation.

The lens has an image magnification of 0.64x with a field of view of 75° static and 90° dynamic.

SMT 60D Lens

The Sensor Single-use 60D Lens provides a clear 1.0x magnified image of the patient's fundus at the slit lamp or in the operating room without the need for corneal contact or methylcellulose interface fluid. With its 0.96x magnification, direct observation and also measurement of the optic nerve head may be accomplished without mental calculation. The Sensor 60D lens has a custom anti-reflective coating that minimizes unwanted reflections.

The lens has an image magnification of 0.96x which produces a laser spot magnification of 1.0x. The field of view is 68° static and 80° dynamic.

SMT 28D Lens

The Sensor Single-use 28D Lens provides a clear 2.1x magnified image of the patient's fundus when used with the Binocular Indirect Ophthalmoscope. The 28D lens has a custom anti-reflective coating that minimizes unwanted reflections during observation and facilitates its use with all lasers.

The lens has an image magnification of 2.1x which produces a laser spot magnification of 0.47x. The field of view is 53° static and 70° dynamic.

SMT Lens Information and Specifications

Lens	General Description	Main Procedures	Laser Use/ Coatings	Image Mag	Laser Spot Mag	Mirror Angle (°)/ Field of View (°)
SMT 3 Mirror Lens	General purpose lens used to view/treat all regions of the eye	Fundus examination, Focal laser, Macula grid, Pan retinal photocoagulation, Diabetic macular edema	All lasers Custom coating	1.08x	1.08x	Mirror angles 59°, 67°, 73° Central fundus view 30°
SMT 4 Mirror Gonioscopy Lens	Used for the diagnosis of glaucoma	Fundus examination, Static and dynamic gonioscopy				Mirror angles 64° Central fundus view 30°
SMT Single Mirror Lens	Used for treating glaucoma	Trabeculolectomy, Trabeculoplasty, Selective laser trabeculoplasty (SLT), Photography of anterior segment	All lasers Custom coating	1.0x	1.0x	Mirror angle 63°
SMT Fundus Lens	General purpose lens used to view/treat fundus	Fundus examination, Focal laser, Macula grid, Diabetic macular edema	All lasers Custom coating	0.93x	1.08x	Central fundus view 36°
SMT Retina 90 Lens	Used to treat diabetic eye disease and neovascularization	Focal laser, Macular grid, Diabetic macular edema	All lasers Custom coating	1.0x	1.0x	Field of view: 90 static 120 dynamic
SMT Retina 165 Lens	Used to treat diabetic eye disease, PRP, peripheral retina and ARMD	Pan retinal photocoagulation, Fundus photography	All lasers Custom coating	0.65x	1.55x	Field of view: 165 static 180 dynamic
SMT Capsulotomy Lens	Used following IOL implant surgery	Nd:YAG laser capsulotomy	Nd:YAG laser only Custom coating	1.8x	0.56x	N/A
SMT Iridotomy Lens	Used for treating closed angle glaucoma	Argon, diode, or Nd:YAG laser Iridotomy, Sphincterotomy	All lasers Custom coating	1.6x	0.63x	N/A
SMT 90D Lens	General purpose lens used to view the fundus	Fundus examination	Custom coating	0.64x		Field of view: 75 static 90 dynamic
SMT 60D Lens	General purpose lens used to view and measure fundus detail at 1X magnification	Examination of macular and optic disc	Custom coating	0.96x		Field of view: 68 static 80 dynamic
SMT 28D Lens	General purpose lens used to view the fundus at high magnification	Fundus examination (popular for children)	All lasers Custom coating	2.1x	0.47x	Field of view: 53 static 70 dynamic

For ordering or more information
contact us (+) 425-358-7382
email: info@sensormedtech.com

Key for lasers

Laser	Wavelength (nm)
Argon	514
Frequency doubled YAG	532
Diode Pumped Solid State (High Powered Yellow)	561 (577)
Dual Cavity	532 and 670
Diode	810
YAG	1064

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Sensor Medical Technology
23175 224th Pl SE
Suite C
Maple Valley, WA 98038
Tel: (+) 425-358-7382
Fax: (+) 425-358-7381
www.sensormedtech.com
info@sensormedtech.com

For ordering or more information
contact us (+) 425-358-7382
email: info@sensormedtech.com