OCULAR INSTRUMENTS

PRODUCT CATALOG

Beauty is in the beholder of the eye

OCULAR INSTRUMENTS

STAY FOCUSED

Vision

It is both our business and our guiding principle. For over 40 years we have stayed focused on a single ideal: To create and produce ophthalmic lenses of unparalleled sharpness and clarity.

And while we have continually challenged ourselves to create breakthrough lens systems that take the forefront of the ophthalmic industry, we are at the same time, committed to continually improving the features and durability of all our product lines.

Our personal focus, however, has always been clearly on you. We are not just driven. We are customer driven.

We believe our quest for higher performance and the pursuit of perfection are why so many leading doctors consistently choose the products of Ocular Instruments.

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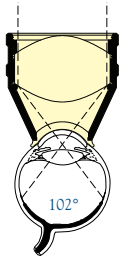
OCULAR REICHEL-MAINSTER 1X RETINA

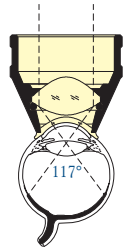


Superior optical resolution for detecting subtle fundus details such as retinal thickening and serous detachments. High axial and lateral magnifications facilitate the diagnosis and treatment of macular and retinal vascular disorders. Broad field of view provides versatility for focal, grid and panretinal photocoagulation. Ideal for transpupillary thermotherapy and photodynamic therapy and for treating choroidal neovascularization, diabetic retinopathy and retinal vascular occlusion. The ORMR-1X-P has a smaller contact diameter for pediatric patients. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
ORMR-1X	.95x	1.05x	16.5mm	30mm	102°	133°
ORMR-1X-2*	.95x	1.05x	15mm	29.5mm	102°	133°
ORMR-1X-P	1.08x	.93x	15mm	31mm	98°	126°

Journal reference: Seminars in Ophthalmology, 2001, Vol. 16, No. 2, pp 60-65.

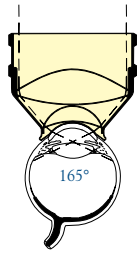
OCULAR REICHEL-MAINSTER 2X



Superior optical resolution for detecting subtle fundus details such as retinal thickening and serous detachments. Outstanding imaging performance through hazy ocular media. Broad field of view provides versatility for focal, grid and panretinal photocoagulation. Ideal for transpupillary thermotherapy and photodynamic therapy and for treating choroidal neovascularization, diabetic retinopathy and retinal vascular occlusion. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
ORMR-2X	.50x	2.00x	16.5mm	27.5mm	117°	142°
ORMR-2X-2*	.50x	2.00x	15.5mm	27mm	117°	142°

OCULAR MAINSTER PRP 165

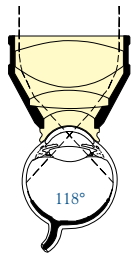


Widest field of view available for panretinal photocoagulation. Unique optical design provides clear, bright image across the entire field. Light weight. Securefit® flange for easy manipulation. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
OMRA-PRP 165	.51x	1.96x	17.5mm	28.1mm	165°	180°
OMRA-PRP-165-2*	.51x	1.96x	16.5mm	27.7mm	165°	180°

ALL ARGON/DIODE LENSES USE CLEANING METHOD 1 * No methylcellulose required

OCULAR MAINSTER WIDE FIELD

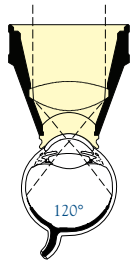


For panretinal photocoagulation in proliferative diabetic retinopathy. Excellent ophthalmoscopic resolution. Image binocularity across the entire field of view. Allows a very wide range of slit lamp magnifications to be used.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
OMRA-WF	.68x	1.50x	15.5mm	28mm	118°	127°
OMRA-WF-2*	.68x	1.50x	12mm	26.5mm	118°	127°

U.S Patent #5,007,729
Journal references: AJO, Vol 117, pp 442-446, April 1994
American Academy of Ophthalmology, Vitreoretinal Update, Subspecialty Day 1999

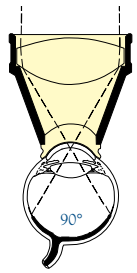
OCULAR PDT 1.6X



Exceptional lens for treatment of macular degeneration. Larger treatment area with high resolution. Unique design for ease of use and optimal image contrast.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
OPDT	.63x	1.60x	15.5mm	32.5mm	120°	133°
OPDT-2*	.63x	1.60x	12mm	31mm	120°	133°

OCULAR MAINSTER (STANDARD) FOCAL/GRID



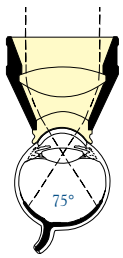
Designed for focal and grid laser treatment from the posterior pole to the mid-periphery. Excellent for diagnosis and treatment of macular edema, branch retinal vein occlusion, choroidal neovascularization in aging macular degeneration, and presumed ocular histoplasmosis. High resolution, high magnification image allows appreciation of subtle intra-retinal details and retinal thickening.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
OMRA-S	.96x	1.05x	15.5mm	32.5mm	90°	121°
OMRA-S-2*	.96x	1.05x	12mm	31mm	90°	121°

U.S. Patent #4,728,183 European Patent #0262967
Journal references: Ophthalmology Times, Vol 15, No 18, Sep 15, 1990; British Journal of Ophthalmology, Vol 74, No 3, pp 177-179, Mar 1990; Archives of Ophthalmology, Vol 106, p 1640, Dec 1988

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66. * No methylcellulose required

OCULAR MAINSTER HIGH MAGNIFICATION

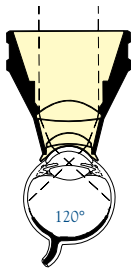


Very high magnification for detecting and treating macular problems. Facilitates location of subtle vascular landmarks during macular photocoagulation that may be apparent angiographically but are hard to find without superior magnification.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
OMRA-HM	1.25x	.80x	15.5mm	27.5mm	75°	88°
OMRA-HM-2*	1.25x	.80x	12mm	26.5mm	75°	88°

U.S. Patent #5,309,187

OCULAR PRORETINA 120 PB



High resolution aspheric design for panretinal photocoagulation. Streamlined shape simplifies treatment of patients with prominent brows and allows easy lens manipulation to examine and treat the retinal periphery. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV	Dynamic FOV
OPR-120	.50x	2.00x	16mm	35.5mm	120°	136°
OPR-120-2*	.50x	2.00x	14mm	35mm	120°	136°

ALL ARGON/DIODE LENSES USE CLEANING METHOD 1 * No methylcellulose required

RETINA LENS COMPARISON CHART

LENS		PRP 165	WIDE FIELD	PDT 1.6X	PRORETINA 120 PB[3]	REICHEL-MAINSTER 1X	REICHEL-MAINSTER 2X	(STANDARD) FOCAL/ GRID[4]	HIGH MAG
IMAGE MAGNIFICATION		.51X	.68X	.63X	.50X	.95X	.50X	.96X	1.25X
LASER SPOT MAGNIFICATION FACTOR[2]		1.96X	1.50X	1.60X	2.00X	1.05X	2.00X	1.05X	.80X
STATIC FIELD OF VIEW		165°	118°	120°	120°	102°	117°	90°	75°
DYNAMIC FIELD OF VIEW		180°	127°	133°	136°	133°	142°	121°	88°
RETINAL DISORDER[1]	PROCEDURE								
NVD, NVE or NVI	PRP, Clear Media	■■■	■■	■■	■■	■■	■■	■	–
NVD, NVE or NVI	PRP, Vitreous Hemorrhage	■■	■■■	■■■	■■■	■■	■■■	■	–
Macular Edema	Focal + Grid	■	■	■	■	■■■	■■	■■■	■■
CNV in ARMD or OHS	focal	–	–	–	–	■■■	–	■■■	■■■
	pdt, ttt	■	■■■	■■■	■	■■■	■■■	■■■	■■■
Retinal Holes	Peripheral	■■■	■	■	■	■	■	–	–

■■■ OPTIMAL ■■ VERY USEFUL ■ USEFUL – NOT USEFUL

(1) NVD, NVE, NVI: neovascularization - disc, retina elsewhere, iris; CNV: choroidal neovascularization; ARMD: age-related macular degeneration; OHS: ocular histoplasmosis syndrome.

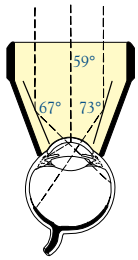
(2) Multiply the laser photocoagulator spot size setting by this magnification factor to calculate the retinal spot size produced by each lens.

(3) The ProRetina's tubular design facilitates examination and treatment of patients with prominent brows. It also allows easy lens manipulation for examination and treatment of the retinal periphery.

(4) Focal/Grid is the new name for the Mainster Standard.

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

OCULAR THREE MIRROR UNIVERSAL

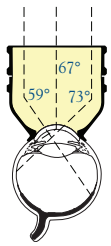


This classic "Goldmann" type lens has three mirrors angled at 59°, 67° and 73° to permit viewing of the fundus and anterior chamber. The posterior pole is viewed through the center of the lens. Many heights and diameters are available. Gonio mag .80x. Gonio laser spot mag 1.25x.

Product Code	Style	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3MA	Universal	.93x	1.08x	18mm	32mm	140°
OG3MA-2*	NMR	.93x	1.08x	16mm	32mm	140°
OG3MFA	with flange	.93x	1.08x	20mm	33mm	140°
OG3MIA	15mm	.93x	1.08x	15mm	28mm	140°
OG3MPA	17mm	.93x	1.08x	17mm	26mm	140°
OG3MSA	Small	.93x	1.08x	18mm	24mm	140°
OG3MSA-2*	NMR Small	.93x	1.08x	16mm	23mm	140°
OG3MA-13*	NMR Small Fissure	.93x	1.08x	13mm	28mm	140°

Journal reference: *Optometric Management, Vol. 35, No. 6, June 2000*

NEW OCULAR HIGH DEFINITION THREE MIRROR



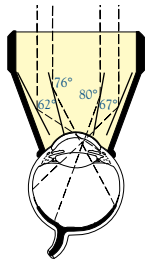
Provides mirrors for examination of the fundus and the anterior chamber angle. High index glass three mirror lens with our Laserlight® HD anti-reflective coating for maximum light transmission and image brightness. One 64° gonio mirror and two fundus mirrors, 73° and 67°. Fundus images overlap, no “blind spot” in fundus field. Outstanding for laser and diagnostic applications – 15mm or 17mm flange adapters recommended for laser procedures. Compatible with visible and near infrared lasers. Methylcellulose not required.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3MHD-10*	.65x	1.54x	10mm	25.0mm	150°
OG3MHD-15*	.65x	1.54x	15mm	26.5mm	150°
(OG3MHD-10 Lens w/OACF-15 flange)					
OG3MHD-17	.65x	1.54x	17mm	27.5mm	150°
(OG3MHD-10 Lens w/OACF-17 flange; methylcellulose recommended)					

Flanges also sold separately, see accessory section.
U.S. Patent #6,767,098

ALL ARGON/DIODE LENSES USE CLEANING METHOD 1 * No methylcellulose required

OCULAR KARICKHOFF

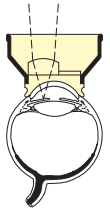


Four mirrors plus a central axis view give a complete view of the interior of the eye. Unique "depth dots" mark each mirror at the base for easy orientation. One dot, 62° (anterior chamber angle); two dots, 67° (ora serrata); three dots, 76° (mid-equator); four dots, 80° (mid-peripheral area). The mirrors provide fields of view that overlap completely. Gonio mag .80x. Gonio laser spot mag 1.25x.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OJKA	.93x	1.08x	18mm	32mm	140°
OJKFA w/flange	.93x	1.08x	20mm	32.5mm	140°

Journal references: Optometry Today Supplement, pp. 23-24, September 1992
Optometric Management, Vol. 35, No. 6, June 2000

OCULAR ABRAHAM IRIDECTOMY

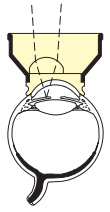


A 66D magnifying lens for viewing the patient's iris. The power density of the laser beam at the iris is increased 2.5x compared with a flat lens. A 50 micron spot size setting yields a 31 micron spot on the iris. The lens provides additional safety by reducing the power density at the cornea and retina by 2.8x.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OAIA	1.60x	.63x	15.5mm	16.5mm

Journal references: Int'l Ophthalmology Clinic Glaucoma Surgery, Vol. 21, No. 1, Spring 1981; Ophthalmic Surgery, Vol. 11, No. 8, pp. 506-515, August 1980; Ophthalmic Surgery and Lasers, Vol. 27, No. 3, pp. 209-227, March 1996; Perspectives in Ophthalmology, Vol. 4, No. 2, pp. 129-138, June 1980

OCULAR WISE IRIDOTOMY-SPHINCTEROTOMY



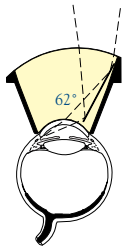
This lens features a 9mm diameter, 103D magnifying lens strategically aligned to optimize small spot laser delivery. Laser power density at the iris is 2.7 times greater than with an Abraham lens and 6.9 times greater than with a flat lens. Increases treatment efficiency with less energy and shorter burn duration, even on thick brown or light blue irises. Useful with Argon, diode, or Nd:YAG lasers.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OWISA	2.60x	.38x	15.5mm	15mm

Journal references: AJO, Vol. 101, No. 5, pp. 546-553, May 1986
Ophthalmic Surgery, Vol. 27, No. 3, pp. 209-227, March 1996

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

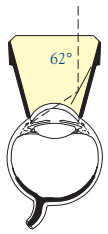
OCULAR MAGNA VIEW GONIO



The best lens available for gonioscopy and laser trabeculoplasty. One 62° mirror. Tilted anterior surface corrects image and laser beam astigmatism. Unsurpassed resolution. The best lens for anterior chamber angle photography. Can be used on most patients without methylcellulose. Suitable for Argon, diode or YAG laser treatment. Available with the Ocular Securefit® flange.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OMVGL	1.3x	15mm	23.5mm	160°
OMVGLF w/flange	1.3x	18mm	24.5mm	160°

OCULAR SINGLE MIRROR GONIO

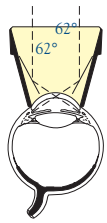


Small size gonio lens with one 62° mirror. Compact knurled ring simplifies 360° viewing and treatment of the anterior chamber angle. The -2 model with NMR-K (Kapetansky) style contact surface design allows gonioscopy and laser trabeculoplasty without methylcellulose.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OSMGA	.80x	1.25x	15mm	21mm	170°
OSMGA-2*	.80x	1.25x	15mm	21mm	170°

Journal references: Ophthalmic Surgery, Vol. 19, No. 6, pp. 414-416, June 1988; Optometry Today Supplement, pp. 23-24, September 1992; Optometric Management, Vol. 35, No. 6, June 2000

OCULAR TWO MIRROR GONIO



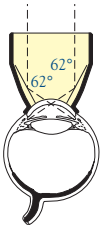
Two opposing 62° mirrors provide a complete view of the anterior chamber angle with only a 180° lens rotation. Methylcellulose and NMR-K (Kapetansky) no methylcellulose designs available.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
O2MA	.80x	1.25x	15mm	21mm	170°
O2MA-2* (formerly O2MGA*)	.80x	1.25x	15mm	21mm	170°

Journal reference: Optometric Management, Vol. 35, No. 6, June 2000

ALL ARGON/DIODE LENSES USE CLEANING METHOD 1 * No methylcellulose required

OCULAR FOUR MIRROR MINI GONIO

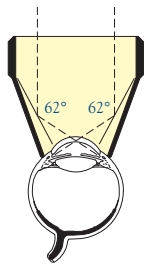


Four 62° mirrors allow complete observation of the angle with little lens rotation. Small diameter flange is convenient for eyes with small palpebral fissures. Anterior holding ring available in small and large sizes.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Ring Diam.	Static Gonio FOV
O4GFA*	.80x	1.25x	15mm	23.5mm	23.5mm	120°
O4GFA-LR*	.80x	1.25x	15mm	27mm	32.5mm	120°

Journal reference: Optometric Management, Vol. 35, No. 6, June 2000

OCULAR THORPE FOUR MIRROR GONIO

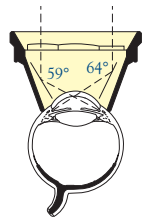


Four 62° mirrors give a 360° view of the anterior chamber angle with only a slight lens rotation. Posterior pole can be viewed through center of lens. Retina image mag .93x. Retina laser spot mag 1.08x.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OT4MGA	.80x	1.25x	18mm	32mm	150°

Journal reference: Optometric Management, Vol. 35, No. 6, June 2000

OCULAR RITCH TRABECULOPLASTY



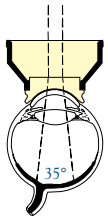
Designed with two 59° (round on top) and two 64° mirrors (flat on top). A 1.4x magnifying button is placed over one each of the 59° and 64° mirrors. The magnifying button reduces the laser spot size by 30% and increases the laser power by 2x. The 64° mirror is best for treating the superior 180° of the angle, while the 59° mirror is best for the inferior 180°.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
ORTA	1.40x	.71x	18mm	23mm	80°

Journal reference: Review of Ophthalmology, Vol. 4, No. 6, pp. 97-100, June 1997

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66. * No methylcellulose required

OCULAR FUNDUS

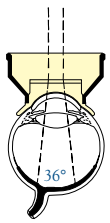


This "Goldmann" type fundus lens provides clear visualization of the posterior pole.

Using the NMR-K (Kapetansky) style contact surface design, direct examination and laser treatment of the posterior pole can be performed without methylcellulose.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV
OGFA	.93x	1.08x	15.5mm	16.5mm	36°
OGFA-2*	.93x	1.02x	15.5mm	16.5mm	36°

OCULAR YANNUZZI FUNDUS



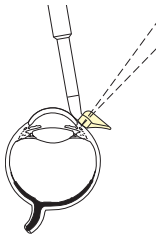
Designed for viewing and treatment of the posterior pole. Large scleral flange allows greater control of the globe.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static FOV
OYFA	.93x	1.08x	20mm	16.5mm	36°

Journal reference: AJO, Vol. 101, No. 5, pp. 619-620, May 1986

ALL ARGON/DIODE LENSES USE CLEANING METHOD 1 * No methylcellulose required

OCULAR HOSKINS NYLON SUTURE

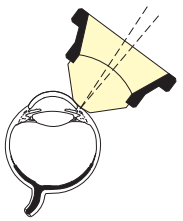


The Hoskins lens is designed for laser suture lysis after trabeculectomy or cataract surgery. The lens compresses conjunctival blood vessels and provides a clear view of the sutures. The flange holds the eye lid out of the way.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Handle Length
OHSA	1.20x	.83x	3mm	79mm

Journal references: *AJO, Vol. 119, No. 2, pp. 232-233, February 1995; Eye Net, Vol. 5, No. 4, pp. 33-34, April 2001; Ophthalmic Surgery, Vol. 15, No. 9, pp. 731-733, September 1984; Ophthalmology, Vol. 103, No. 2, pp. 306-314, February 1996; Ophthalmology Times, Vol. 16, No. 9, May 1991; Ophthalmic Surgery & Lasers, Vol. 31, No. 2, pp. 94-99, March/April 2000*

OCULAR MANDELKORN SUTURE LYSIS

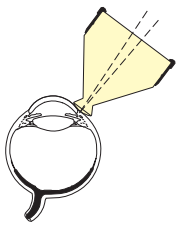


Designed for laser suture lysis after trabeculectomy or cataract surgery. The lens compresses conjunctival blood vessels and provides a clear view of the sutures. Allows complete visualization of the surgical site.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OMSLA	1.32x	.76x	5.6mm	21mm

Journal references: *Eye Net, Vol. 5, No. 4, pp. 33-34, April 2001; Ocular Surgery News, Vol. 13, No. 20, October 1995; Ocular Surgery News Int'l, Vol. 6, No. 10, p. 54, October 1995; Ophthalmic Surgery, Vol. 25, No.7, pp. 480-481, July 1994*

OCULAR RITCH NYLON SUTURE



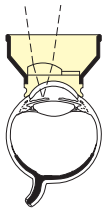
Designed for laser suture lysis after trabeculectomy or cataract surgery. The lens compresses conjunctival blood vessels and provides a clear view of the sutures. Cone shaped lens with flange provides lid retraction.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
ORNSA	1.00x	1.00x	5.7mm	25.5mm

Journal references: *Eye Net, Vol. 5, No. 4, pp. 33-34, April 2001*
Ophthalmic Surgery, Vol. 25, No. 2, pp. 126-127, February 1994

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

OCULAR ABRAHAM IRIDECTOMY

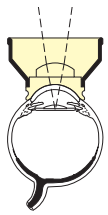


A 10mm diameter, 66D magnifying button in the anterior surface of the lens is positioned over the peripheral iris to give a clear view of the iridectomy site. Laser efficiency is increased compared with using no lens. The lens also helps stabilize the patient's eye and retains the eye lids.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OAIY	1.5x	.67x	15.5mm	16.5mm

Journal reference: Ophthalmic Surgery & Lasers, Vol 27, No. 3, pp. 209-227, March 1996

OCULAR ABRAHAM CAPSULOTOMY

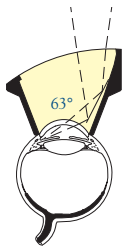


Stabilizes the patient's eye and minimizes the possibility of pitting the IOL during Nd:YAG laser capsulotomy. A 10mm diameter, 66D magnifying button in the center of the lens enhances visualization and allows precise laser focus on the posterior capsule.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OAYA	1.8x	.56x	15.5mm	16.5mm

Journal reference: Ocular Surgery News, Vol 14, No. 17, p. 36, September 1, 1996

OCULAR LATINA SLT GONIO LASER LENS

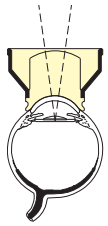


Designed specifically for Selective Laser Trabeculoplasty. 1.0x magnification maintains laser spot size for accurate laser energy delivery. Tilted anterior lens surface corrects astigmatism to maintain circular laser beam profile and give sharp images for examination. Suitable for standard laser trabeculoplasty. Large 63° mirror yields bright image for angle photography. Available with the Ocular Securefit® flange for increased stability.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Field of View
OLSLT	1.0x	1.0x	14.5mm	24mm	130°
OLSLTF w/flange	1.0x	1.0x	18mm	25mm	130°

ALL YAG LENSES USE CLEANING METHOD 1

OCULAR PEYMAN G. CAPSULOTOMY

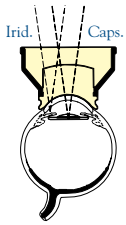


Designed for posterior capsulotomy, this lens features a 14mm diameter anterior surface and a slightly greater working distance than the Abraham Lens.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OPYG-12/12	1.8x	.56x	15.5mm	16.5mm

Journal reference: EyeNet, Vol. 5, No. 8, pp. 35-37, August 2001

OCULAR MANDELKORN IRIDOTOMY/CAPSULOTOMY

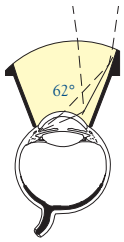


Large anterior surface allows visualization of the iris and posterior capsule. Designed for Argon, diode, or Nd:YAG iridotomy, and YAG capsulotomy.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OMIC	1.2x	.83x	15.5mm	16.5mm

Journal reference: Ocular Surgery News, Vol 16, No. 9, p. 67, September 1998

OCULAR MAGNA VIEW GONIO



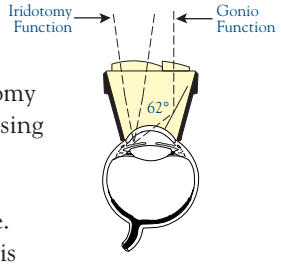
The best lens available for gonioscopy and laser trabeculoplasty. One 62° mirror. Tilted anterior surface corrects image and laser beam astigmatism. Unsurpassed resolution. The best lens for anterior chamber angle photography. Can be used on most patients without methylcellulose. Suitable for Argon, diode or YAG laser treatment. Available with the Ocular Securefit® flange.

Product Code	Gonio Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OMVGL	1.30x	.77x	14.5mm	23.5mm	160°
OMVGLF w/flange	1.30x	.77x	18mm	24.5mm	160°

Journal reference: Optometric Management, Vol. 35, No. 6, June 2000

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

OCULAR POLLACK IRIDOTOMY/GONIO

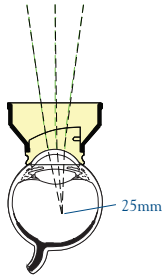


The Pollack Iridotomy-Gonio Laser Lens has two coated glass buttons on the anterior surface that enable performance of iridotomy and gonioscopy without changing lenses and with minimal refocusing of the slit lamp. It is designed to easily determine if the angle has been opened following iridotomy. The 1.5x magnification button allows lower levels of energy to be employed during the procedure. Also suitable for Argon Laser Trabeculoplasty (ALT). Image mag is 1.5x for both iris and anterior chamber angle.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OPIG	1.5x	.65x	15mm	21mm

U.S. Patent #6,698,886

NEW OCULAR KARICKHOFF OFF-AXIS VITREOUS LENS

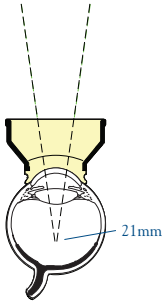


Lens very helpful in treating off-axis floaters. Rotating the lens allows looking for floaters without patient moving their eye. Focus is more posterior and allows monitoring of the retina during treatment in most patients. Black mark on lens indicates the direction of peripheral view. Anterior lens surface design reduces image astigmatism and image degradation when tilting the lens. Small flange prevents lens being squeezed off eye by patient.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OJKPY-25	1.36x	.74x	15.5mm	16.5mm

Journal reference: Ocular Surgery News, Vol. 25, No. 6, pp 51-54, March 15, 2007

NEW OCULAR KARICKHOFF 21MM VITREOUS LENS

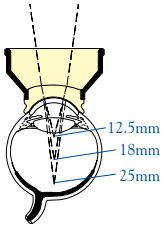


Most useful lens for laser treatment of vitreous floaters. Small flange helps prevent lens being squeezed off eye by patient. Small exterior diameter enables lens to be inserted into an eye with small lid fissures. Lens allows surgeon to view retina clearly in most patients during procedure to check for hemorrhage. Serrated holding ring for easy grip.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OJKY-21	1.39x	.72x	15.5mm	16mm

Journal reference: Ocular Surgery News, Vol. 25, No. 6, pp 51-54, March 15, 2007

OCULAR PEYMAN WIDE FIELD



Three lenses designed for YAG laser treatment in the vitreous. 12.5mm for anterior vitreous, 18mm for mid-vitreous, 25mm for posterior vitreous. The convex anterior surface of each lens optimizes image magnification and laser performance in the area of interest.

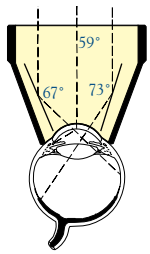
Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OPY-12.5	1.40x	.71x	15.5mm	16.5mm
OPY-18	1.41x	.71x	15.5mm	16.5mm
OPY-25	1.36x	.74x	16mm	14.7mm

Journal reference: Retina, Vol 4, No. 2, pp. 129-131, February 1984

ALL YAG LENSES USE CLEANING METHOD 1

Ocular Instruments offers many lens styles that cater to your personal preference. Now our popular Posner and Sussman Four Mirror Gonio Lenses are available with red, blue, green, gold, purple or traditional black handles and rings.

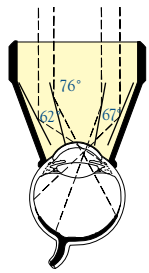
OCULAR THREE MIRROR UNIVERSAL



This classic "Goldmann" type lens has three mirrors angled at 59°, 67° and 73° to permit viewing of the peripheral fundus and anterior chamber angle. 36° of the posterior pole can be viewed through the center of the lens. Many heights and diameters are available. Gonio mag .80x.

Product Code	Style	Image Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3M	Universal	.93x	18mm	32mm	140°
OG3M-2*	NMR	.93x	16mm	32mm	140°
OG3MF	with flange	.93x	20mm	33mm	140°
OG3MI	15mm	.93x	15mm	28mm	140°
OG3MP	17mm	.93x	17mm	26mm	140°
OG3MS	Small	.93x	18mm	24mm	140°
OG3MS-2*	NMR Small	.93x	16mm	23mm	140°
OG3M-13*	NMR Small Fissure	.93x	13mm	28mm	140°

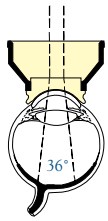
OCULAR KARICKHOFF DIAGNOSTIC



Four mirrors plus a central axis view give a complete view of the interior of the eye. Unique "depth dots" mark each mirror at the base for easy orientation. One dot, 62° (anterior chamber angle); two dots, 67° (ora serrata); three dots, 76° (mid-equator); four dots, 80° (mid-peripheral area). The mirrors provide fields of view that overlap completely. Gonio mag .80x.

Product Code	Image Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OJK	.93x	18mm	32.0mm	140°
OJKF w/flange	.93x	20mm	32.5mm	140°

OCULAR FUNDUS DIAGNOSTIC



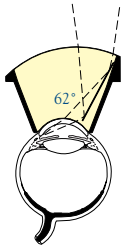
The flat front surface of this "Goldmann" type fundus lens provides a direct image of the posterior pole. Methylcellulose and NMR-K (Kapetansky) no methylcellulose designs available.

Product Code	Image Mag.	Contact Diam.	Lens Height	Static FOV
OGF	.93x	15.5mm	16.5mm	36°
OGF-2*	.97x	15.5mm	16.5mm	35°

DIAGNOSTIC LENSES USE CLEANING METHOD 1 UNLESS OTHERWISE NOTED

* No methylcellulose required

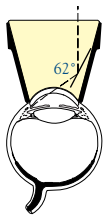
NEW OCULAR MAGNA VIEW GONIO



The best lens available for gonioscopy and laser trabeculoplasty. One 62° mirror. Tilted anterior surface corrects image and laser beam astigmatism. Unsurpassed resolution. The best lens for anterior chamber angle photography. Can be used on most patients without methylcellulose. Suitable for Argon, diode or YAG laser treatment. Available with the Ocular Securefit® flange.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OMVGL	1.3x	15mm	23.5mm	160°
OMVGLF w/flange	1.3x	18mm	24.5mm	160°

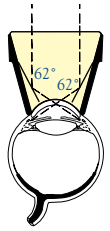
OCULAR SINGLE MIRROR GONIO



Small size gonio lens with one 62° mirror. Compact knurled ring simplifies 360° viewing of the anterior chamber angle. Methylcellulose and NMR-K (Kapetansky) no methylcellulose designs available.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OSMG	.80x	15mm	19.5mm	170°
OSMG-2*	.80x	15mm	19.5mm	170°

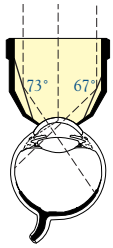
OCULAR TWO MIRROR GONIO



Two opposing 62° mirrors provide a complete view of the anterior chamber angle with only a 180° lens rotation. Methylcellulose and NMR-K (Kapetansky) no methylcellulose designs available.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
O2M	.80x	15mm	19.5mm	170°
O2M-2* (formally O2MG*)	.80x	15mm	19.5mm	170°

OCULAR THREE MIRROR 10mm GONIO

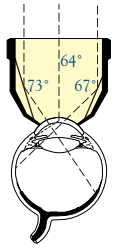


Three mirrors of 64°, 67° and 73° and a small diameter contact surface for use without methylcellulose. The fundus can be viewed through the central axis of the lens. Multi-layer polymer coating protects mirrors and is compatible with most disinfecting methods. Gonio mag .80x.

Product Code	Image Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3M-10*	.93x	10mm	25mm	140°

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66. * No methylcellulose required

NEW OCULAR AUTOCLAVABLE THREE MIRROR

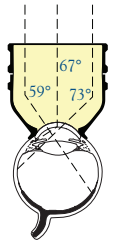


Provides mirrors for the examination of the fundus and the anterior chamber angle. Steam sterilizable universal ophthalmic lens prism. High index glass design. Mirrors maintain total internal reflection as if they are coated. One 64° gonio mirror and two fundus mirrors, 73° and 67°. Fundus images overlap, no "blind spot" in fundus field. Methylcellulose not required. Cleaning Method 3. Gonio mag .61x.

Product Code	Image Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3MAC-10*	.65x	10mm	25mm	150°
OG3MAC-15*	.65x	15mm	26.5mm	150°
(OG3MAC-10 Lens w/OACF-15 flange)				
OG3MAC-17	.65x	17mm	27.5mm	150°
(OG3MAC-10 Lens w/OACF-17 flange; methylcellulose recommended)				

Flanges also sold separately, see accessory section.
U.S. Patent #6,767,098

NEW OCULAR HIGH DEFINITION THREE MIRROR

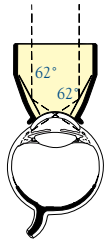


Provides mirrors for examination of the fundus and the anterior chamber angle. High index glass three mirror lens with our Laserlight® HD anti-reflective coating for maximum light transmission and image brightness. One 64° gonio mirror and two fundus mirrors, 73° and 67°. Fundus images overlap, no "blind spot" in fundus field. Outstanding for laser and diagnostic applications – 15mm or 17mm flange adapters recommended for laser procedures. Compatible with visible and near infrared lasers. Methylcellulose not required.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3MHD-10*	.65x	1.54x	10mm	25.0mm	150°
OG3MHD-15*	.65x	1.54x	15mm	26.5mm	150°
(OG3MHD-10 Lens w/OACF-15 flange)					
OG3MHD-17	.65x	1.54x	17mm	27.5mm	150°
(OG3MHD-10 Lens w/OACF-17 flange; methylcellulose recommended)					

Flanges also sold separately, see accessory section.
U.S. Patent #6,767,098

OCULAR FOUR MIRROR MINI GONIO



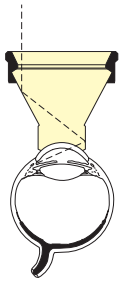
Four 62° mirrors allow complete observation of the angle with little lens rotation. Small diameter flange is convenient for eyes with small palpebral fissures. Anterior holding ring available in small and large sizes. Methylcellulose not required for most patients.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Ring Diam.	Static Gonio FOV
O4GF*	.80x	15mm	22.5mm	23.5mm	120°
O4GF-LR*	.80x	15mm	26mm	32.5mm	120°

DIAGNOSTIC LENSES USE CLEANING METHOD 1 UNLESS OTHERWISE NOTED

* No methylcellulose required

OCULAR KHAW 4D DIRECT VIEW GONIO

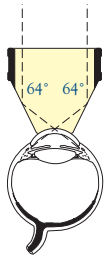


The Khaw 4D Direct View Gonio Lens combines the most favorable features of traditional gonio prisms while providing a properly orientated view of the angle. 360° of anterior chamber angle is visible with little to no lens rotation. Anterior chamber charting made easier with correct image orientation. No methylcellulose required lens design.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Ring Diam.	Static Gonio FOV
OK4DG*	.80x	10mm	24mm	28.5mm	170°

**US Patent #6,976,758*

NEW OCULAR MAXFIELD® AC FOUR MIRROR GONIO



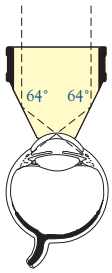
High Refractive Index glass provides total internal reflection even with fluid in contact with the mirrors. Total internal reflection means no light absorption or loss by a mirror coating resulting in a brighter, clearer image. High resolution image of the anterior chamber angle. Steam sterilizable. Holding ring available in small and large sizes. Small and large holding ring designs not sold in autoclavable case. To order an autoclavable case order the OLV-C4. Also available with ergonomic handle. Lens is easily detached from handle for cleaning and sterilization. Cleaning Method 3. Gonioscopic solution is not required to provide optical interface.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Ring Diam.	Static FOV
O4MAC*	.61x	8.5mm	22mm	24.5mm	90°+
O4MAC-15* (O4MAC lens w/OACF4-15 flange)	.61x	15mm	24.5mm	24.5mm	90°+
O4MAC-17 (O4MAC lens w/OACF4-17 flange; methylcellulose recommended)	.61x	17mm	25.5mm	24.5mm	90°+
O4MAC-LR*	.61x	8.5mm	28mm	31.5mm	90°+
O4MAC-LR-15* (O4MAC-LR lens w/OACF4-15 flange)	.61x	15mm	30mm	31.5mm	90°+
O4MAC-LR-17 (O4MAC-LR lens w/OACF4-17 flange; methylcellulose recommended)	.61x	17mm	31mm	31.5mm	90°+
O4MAC-H*	.61x	8.5mm	18mm	n/a	90°+

Flanges also sold separately, see accessory section.
U.S Patent #6,767,098

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66. * No methylcellulose required

NEW OCULAR GAASTERLAND FOUR MIRROR GONIO

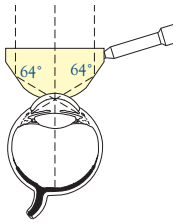


New Laserlight® HD anti-reflective coating on anterior surface for maximum image brightness and contrast. High Refractive Index glass provides total internal reflection even with fluid in contact with the mirrors. Larger field means no need to rotate lens to see entire anterior chamber angle. Choice of large or small holding ring. Also available with ergonomic handle. Gonioscopic solution is not required to provide an optical interface.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Ring Diam.	Static Gonio FOV
OG4MG*	.61x	8.5mm	22mm	24.5mm	90°+
OG4MG-15* (OG4MG lens w/OACF4-15 flange)	.61x	15mm	24.5mm	24.5mm	90°+
OG4MG-17 (OG4MG lens w/OACF4-17 flange; methylcellulose recommended)	.61x	17mm	25.5mm	24.5mm	90°+
OG4MG-LR*	.61x	8.5mm	28mm	31.5mm	90°+
OG4MG-LR-15* (OG4MG-LR lens w/OACF4-15 flange)	.61x	15mm	30mm	31.5mm	90°+
OG4MG-LR-17 (OG4MG-LR lens w/OACF4-17 flange; methylcellulose recommended)	.61x	17mm	31mm	31.5mm	90°+
OG4MG-H*	.61x	8.5mm	18mm	n/a	90°+

Flanges also sold separately, see accessory section.
U.S. Patent #6,767,098

OCULAR POSNER DIAGNOSTIC AND SURGICAL GONIOPRISM



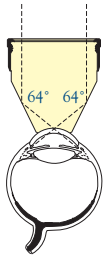
New handle design for strength and durability. Four 64° mirrors for complete anterior chamber angle viewing with minimal lens rotation. Choice of three handles set at 17° for ease of use. Small diameter contact surface allows static or dynamic gonioscopy without methylcellulose. Advanced technology, multi-layer polymer coating protects mirrors and is compatible with most disinfecting methods. Available with red, blue, green, gold, purple, or traditional black handle.

Product Code	Handle Style	Gonio Mag.	Contact Diam.	Lens Height	Handle Length	Static Gonio FOV
OPDSG*	Round	.80x	9mm	13mm	78.8mm	80°
OPDSG-2*	Hexagonal	.80x	9mm	13mm	72.2mm	80°
OPDSG-3*	Ergonomic	.80x	9mm	13mm	92.8mm	80°

Journal references: Ophthalmology Times, Vol. 4, No. 6, p. 8, June 1979
Optometric Management, Vol. 35, No. 6, June 2000

DIAGNOSTIC LENSES USE CLEANING METHOD 1 UNLESS OTHERWISE NOTED
* No methylcellulose required

OCULAR SUSSMAN FOUR MIRROR HAND HELD GONIOSCOPE

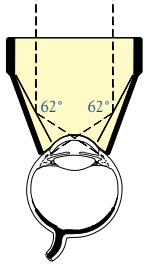


Four 64° mirrors for complete anterior chamber angle viewing with minimal lens rotation. Directly hand held for easy handling and stability. Choice of large or small holding ring. Small diameter contact surface allows static or dynamic gonioscopy without methylcellulose. Advanced technology, multi-layer polymer coating protects mirrors and is compatible with most disinfecting methods. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Ring Diam.	Static Gonio FOV
OS4M*	.80x	9mm	24.5mm	25mm	80°
OS4M-2*	.80x	9mm	28.5mm	31.5mm	80°

U.S Patent #4,033,679
Journal reference: Optometric Management, Vol. 35, No. 6, June 2000

OCULAR THORPE FOUR MIRROR GONIO



Four 62° mirrors give a 360° view of the anterior chamber angle with only a slight lens rotation. Posterior pole can be viewed through center of lens. Image mag .93x.

Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OT4MG	.80x	18mm	32mm	150°

OCULAR KOEPPE DIAGNOSTIC

Direct gonioscopy lens with magnification. The lens rests on the scleral flange creating a corneal vault and leaving the anterior chamber angle undisturbed. Three sizes available.

Product Code	Style	Image Mag.	Contact Diam.	Static Gonio FOV
OKL	Large	1.50x	19mm	160°
OKM	Medium	1.50x	18mm	160°
OKS	Small	1.60x	17mm	160°

Ocular Argon/Diode Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

NEW Laserlight® HD coating now available on our MaxField® Indirect product line. Brighter images. Less reflection. Great for digital imaging! See coatings and materials (page 66) for more details.

Add some extra style to your everyday tools. All of our Maxlight® and MaxField® Indirect Lenses are now available with red, blue, green, gold, purple or traditional black holding rings, with the exception of the Ocular Ultra View Small Pupil (OI-SP).

BINOCULAR INDIRECT OPHTHALMOSCOPY (BIO) LENSES

MAXLIGHT® CR-39 ASPHERIC LENSES

OCULAR MAXLIGHT® 14 DIOPTER

High magnification for detailed examination of macula and optic disc. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-14	4.29x	.23x	37°	72mm	52mm	34g

OCULAR MAXLIGHT® 20 DIOPTER

Most common lens for B.I.O. High resolution image. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-20	2.97x	.34x	50°	47mm	48mm	39g

OCULAR MAXLIGHT® TRIPLE TWO PANFUNDUS

22D lens for general fundus exam with the binocular indirect ophthalmoscope. Large diameter and unique optical design combine magnification with very wide field of view. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-222	2.72x	.37x	60°	39mm	52mm	48g

Ocular Indirect Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

MaxAC™ autoclavable lenses are uncoated for sterilization compatability.

OCULAR MAXLIGHT® 28 DIOPTER

Excellent general purpose lens. Small diameter easy to handle. Popular for examining children. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-28	2.13x	.47x	58°	29mm	38.2mm	22g

MAXFIELD® GLASS ASPHERIC LENSES

NEW Laserlight® HD anti-reflective coating now available on our MaxField® Indirect product line. Brighter images. Less reflection.

OCULAR MAXFIELD® 14D

High magnification for high detail. Features a computer optimized aspheric design for maximum resolution and field of view. Made of high transmittance glass for bright, clear images. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-14M	4.17x	.24x	38°	72mm	52mm	57g

OCULAR MAXFIELD® 20D

Most common lens for B.I.O. High resolution image. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-20M	2.97x	.34x	50°	47mm	48mm	56g

INDIRECT LENSES USE CLEANING METHOD 2
MaxAC™ AUTOCLAVABLE LENSES USE METHOD 3

OCULAR MAXFIELD® 22D

Features a computer optimized aspheric design for maximum resolution and field of view. Made of high transmittance glass and Laserlight® coating for bright, clear images. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-22M	2.73x	.37x	60°	39mm	52mm	73g

OCULAR MAXFIELD® 28D

Excellent general purpose lens. Small diameter easy to handle. Popular for examining children. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-28M	2.11x	.47x	58°	27mm	38.2mm	39g

NEW OCULAR SAXENA RETINAL GRID 520

Monofilament line at 5.20mm spacing provides reference to the size of the optic disc. Estimate the size of inflammatory/non inflammatory retinal lesions. Grid spacing aides in estimating the size of ocular tumors. Easily estimate the amount of disk edema. Easily fits onto anterior side of Ocular 20D Indirect lenses*. The Ocular 20D Indirect Lenses are sold separately.

Product Code
OI-SRG520

** Lens design with diamond knurl pattern only*

MAXAC™ INDIRECT LENSES

OCULAR MAXAC™ 20 DIOPTER

Provides ultra high resolution retinal image with the B.I.O. during clinical practice or in the Operating Room. Features computer optimized aspheric design for maximum resolution and field of view. **STEAM AUTOCLAVABLE.**
Lens not sold in autoclavable case. To order an autoclavable case order the OI-ST.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-20A	3.03x	.33x	50°	47mm	48mm	51g

Ocular Indirect Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

MaxAC™ autoclavable lenses are uncoated for sterilization compatability.

OCULAR MAXAC™ 28 DIOPTER

Provides ultra high resolution retinal image with the B.I.O. during clinical practice or in the Operating Room. Features computer optimized aspheric design for maximum resolution and field of view. Small diameter, easy to handle. **STEAM AUTOCLAVABLE**. Lens not sold in autoclavable case. To order an autoclavable case order the OI-ST.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-28A	2.15x	.47x	59°	28mm	38.2mm	36g

OCULAR MAXAC™ (AUTOCLAVABLE) LENS STAND

The lens stand minimizes water spots from the autoclave. Use during sterilization to hold the lens or lens sterilization case on edge.

Product Code
OI-LSA

SLIT LAMP INDIRECT OPHTHALMOSCOPY LENSES

MAXLIGHT® CR-39 ASPHERIC LENSES

OCULAR MAXLIGHT® ULTRA MAG 60

Designed for detailed examination of the macula and optic disc. Precision computer aided design and manufacturing yield high resolution. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-UM	1.15x	.87x	76°	131°	11mm	30mm	17g

INDIRECT LENSES USE CLEANING METHOD 2
MaxAC™ AUTOCLAVABLE LENSES USE METHOD 3

OCULAR MAXLIGHT® HIGH MAG 78

Unique combination of magnification and field. High resolution to examine fine detail. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-HM	.93x	1.07x	84°	139°	8mm	29.1mm	17g

OCULAR MAXLIGHT® STANDARD 90

The most popular power for non-contact fundus examination. Large and small holding ringavailable. Available with red, blue, green, gold, purple, or traditional black holding ring.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-STD	.75x	1.34x	94°	153°	5mm	19.2mm	6g
OI-STD-LR	.75x	1.34x	94°	153°	5mm	19.2mm	15g

MAXFIELD® GLASS ASPHERIC LENSES

NEW Laserlight® HD anti-reflective coating now available on our MaxField® Indirect product line. Brighter images. Less reflection.

OCULAR MAXFIELD® 54D

High magnification and resolution for examining macula and disc. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-54M	1.10x	.90x	86°	137°	10mm	29.1mm	25g

Ocular Indirect Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

MaxAC™ autoclavable lenses are uncoated for sterilization compatability.

OCULAR MAXFIELD® 60D

High resolution lens produces one to one image of fundus. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-60M	1.00x	1.00x	85°	154°	9.8mm	29.1mm	32g

OCULAR MAXFIELD® 66D

Static field of view to the arcades. Larger stereoscopic field than 60D. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-66M	.91x	1.10x	91°	144°	8mm	27mm	25g

OCULAR MAXFIELD® 72D

Performance like a 78D with a little more magnification. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-72M	.83x	1.20x	102°	155°	7mm	27mm	21g

INDIRECT LENSES USE CLEANING METHOD 2
MaxAC™ AUTOCLAVABLE LENSES USE METHOD 3

OCULAR MAXFIELD® HIGH MAG 78D

Made of high transmittance glass and featuring a wavefront optimized double aspheric design that yields an extremely wide field and sharp image. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-HM-78M	.98x	1.02x	88°	154°	10mm	29.1mm	32g

OCULAR OSHER MAXFIELD® 78D

Formerly called the Osher Panfundus Lens. 78D high refractive index glass lens gives wider field than a regular 78. Very high resolution and wide field for slit lamp fundus examination. Unique design minimizes reflections. Works very well with surgical microscope. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-78M	.77x	1.30x	98°	155°	7mm	27mm	21g

OCULAR MAXFIELD® 84D

Very high precision image. More field than traditional 90D. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-84M	.71x	1.40x	105°	158°	5mm	27mm	28g

Ocular Indirect Lenses come with Laserlight® coating for maximum brightness and easy cleaning, see page 66.

MaxAC™ autoclavable lenses are uncoated for sterilization compatability.

OCULAR MAXFIELD® STANDARD 90

The most popular power for non-contact fundus examination. Large and small holding ring available Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-STDM	.75x	1.34x	94°	153°	5mm	19.2mm	9g
OI-STDM-LR	.75x	1.34x	94°	153°	5mm	19.2mm	18g

OCULAR MAXFIELD® 100D

General screening lens. Works well through small pupils. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-100M	.60x	1.67x	110°	146°	4mm	29.1mm	18g

OCULAR MAXFIELD® 120D

High refractive index glass and precision aspheric design yield an extremely wide field and sharp image. Excellent through small pupils, 80° field of view through a 2mm pupil. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-120M	.50x	2.00x	120°	173°	4mm	21mm	19g

OCULAR ULTRA VIEW SMALL PUPIL

132D lens permits detailed retinal inspection well outside the arcades. Primarily designed to examine patients with poorly dilated or undilated pupils. Retains an 85° field of view through a 2mm pupil. Now available with our NEW Laserlight® HD anti-reflective coating. See Coatings and Materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-SP	.45x	2.22x	99°	158°	4mm	16mm	8.5g

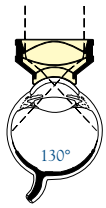
INDIRECT LENSES USE CLEANING METHOD 2
MaxAC™ AUTOCLAVABLE LENSES USE METHOD 3

INDIRECT DIAGNOSTIC/LASER LENS COMPARISON CHART

PRODUCT CODE & DESCRIPTION	USAGE	IMAGE MAG (approx)	LASER SPOT MAG FACTOR	STATIC FOV	DYNAMIC FOV (mm)	WORKING DISTANCE (mm)	CLEAR APERTURE (mm)	LENS WEIGHT (grams)	ASPHERE MATERIAL
OI-14 MaxLight® 14D	BIO	4.29x	.23x	37°	NA	72.0	52.0	34	CR-39
OI-14M HD MaxField® 14D	BIO	4.17x	.24x	38°	NA	72.0	52.0	57	GLASS
OI-20 MaxLight® 20D	BIO	2.97x	.34x	50°	NA	47.0	48.0	39	CR-39
OI-20A MaxAC™ Autoclavable 20D	BIO/O.R.	3.03x	.33x	50°	NA	47.0	48.0	51	GLASS
OI-20M HD MaxField® 20D	BIO	2.97x	.34x	50°	NA	47.0	48.0	56	GLASS
OI-222 MaxLight® Triple Two 22D	BIO	2.72x	.37x	60°	NA	39.0	52.0	48	CR-39
OI-22M HD MaxField® 22D	BIO	2.73x	.37x	60°	NA	39.0	52.0	73	GLASS
OI-28 MaxLight® 28D	BIO	2.13x	.47x	58°	NA	29.0	38.2	22	CR-39
OI-28A MaxAC™ Autoclavable 28D	BIO/O.R.	2.15x	.47x	59°	NA	28.0	38.2	36	GLASS
OI-28M HD MaxField® 28D	BIO	2.11x	.47x	58°	NA	27.0	38.2	39	GLASS
OI-54M HD MaxField® 54D	SLIT LAMP	1.10x	.90x	86°	137°	10	29.1	25	GLASS
OI-UM MaxLight® Ultra Mag 60	SLIT LAMP	1.15x	.87x	76°	131°	11.0	30.0	17	CR-39
OI-60M HD MaxField® 60D	SLIT LAMP	1.00x	1.00x	85°	154°	9.8	29.1	32	GLASS
OI-66M HD MaxField® 66D	SLIT LAMP	.91x	1.10x	91°	144°	8.0	27.0	25	GLASS
OI-72M HD MaxField® 72D	SLIT LAMP	.83x	1.20x	102°	155°	7.0	27.0	21	GLASS
OI-HM MaxLight® High Mag 78	SLIT LAMP	.93x	1.07x	84°	139°	8.0	29.1	17	CR-39
OI-HM-78M HD MaxField® High Mag 78	SLIT LAMP	.98x	1.02x	88°	154°	10.0	29.1	32	GLASS
OI-78M (Formerly OOSPF) Osher MaxField® 78D HD (Fomerly Osher Panfundus)	SLIT LAMP & SURGICAL SCOPE	.77x	1.30x	98°	155°	7.0	27.0	21	GLASS
OI-84M HD MaxField® 84D	SLIT LAMP	.71x	1.40x	105°	158°	5.0	27.0	28	GLASS
OI-STD MaxLight® Standard 90	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.2	6	CR-39
OI-STDM HD MaxField® Standard 90	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.2	9	GLASS
OI-STD-LR MaxLight® Std 90 w/Lg Ring	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.2	15	CR-39
OI-STDM-LR HD MaxField® Std 90 w/Lg Ring	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.2	18	GLASS
OI-100M HD MaxField® 100D	SLIT LAMP	.60x	1.67x	110°	146°	4.0	29.1	18	GLASS
OI-120M HD MaxField® 120D	SLIT LAMP	.50x	2.00x	120°	173°	4.0	21.0	19	GLASS
OI-SP HD Ultra View SP 132D	SLIT LAMP	.45x	2.22x	99°	158°	4.0	16.0	8.5	GLASS

COATING: Laserlight® and Laserlight® HD anti-reflective coating, for maximum brightness and easy cleaning, see page 66

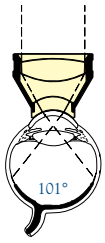
OCULAR LANDERS WIDE FIELD VITRECTOMY LENS



155D lens produces wide angle inverted image. Allows panoramic viewing of far peripheral retina. Clear image in fluid or gas filled eye. Works well with hazy ocular media or through a small pupil. Steam sterilizable, can be quickly prepared for a demanding surgical schedule. Stable in tall sutured lens ring.

Product Code	Image Mag.	Lens Height	Static FOV	Dynamic FOV
OLIV-WF	.38x	12mm	130°	146°

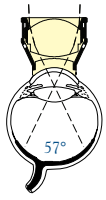
OCULAR LANDERS EQUATORIAL II VITRECTOMY LENS



91D wide angle lens. For procedures from the posterior pole to the equator. Provides greater magnification and detail than Landers Wide Field. Steam sterilizable for rapid re-use.

Product Code	Image Mag.	Lens Height	Static FOV	Dynamic FOV
OLIV-EQ-2	.65x	14.5mm	101°	131°

OCULAR WOLDOFF HIGH MAGNIFICATION VITRECTOMY LENS



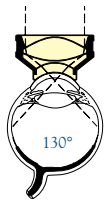
66D lens, ideal for wide angle viewing of the posterior pole. Its wide field provides stereopsis well beyond the area seen by a conventional flat lens. The high magnification and resolution create very precise depth perception. It provides an excellent image for delicate work around the macula such as macular hole surgery or peeling of epiretinal membranes from the macula. Lens of choice for videotaping macular procedures. Steam sterilizable for rapid re-use.

Product Code	Image Mag.	Lens Height	Static FOV	Dynamic FOV
OWIV-HM	.90x	13.5mm	57°	100°

LENSES ON THIS PAGE USE CLEANING METHOD 3

Ocular wide angle vitrectomy lenses are compatible with all detachable inverting systems

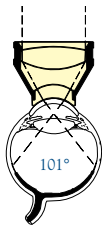
OCULAR LANDERS NON-AUTOCLAVABLE WIDE FIELD VITRECTOMY LENS



Single-piece, 155D lens designed for clinical situations where autoclaving is either not available or not desired. Excellent for panoramic viewing of the far peripheral retina and laser photocoagulation when managing a peripheral retinal tear or giant retinal tear. Its wide field of view and low magnification make it particularly useful during fluid-gas exchanges. Excellent lens for use with media opacities such as cataracts and cloudy corneas, and works well through a small pupil. It is the lens of choice for videotaping important procedures.

Product Code	Image Mag.	Lens Height	Static FOV	Dynamic FOV
OLIV-WFNA	.38x	12mm	130°	146°

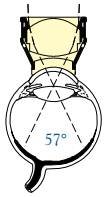
OCULAR LANDERS NON-AUTOCLAVABLE EQUATORIAL VITRECTOMY LENS



Single-piece 91D lens designed for clinical situations where autoclaving is either not available or not desired. It is excellent for delicate membrane peeling around the optic nerve and off of the major vascular arcades. It also provides an excellent image for delicate work around the macula such as macular hole surgery or peeling of epiretinal membranes from the macula.

Product Code	Image Mag.	Lens Height	Static FOV	Dynamic FOV
OLIV-EQNA	.65x	14.5mm	101°	131°

OCULAR WOLDOFF NON-AUTOCLAVABLE HIGH MAGNIFICATION VITRECTOMY LENS



Single-piece, 66D lens designed for clinical situations where autoclaving is either not available or not desired. It is ideal for wide angle viewing of the posterior pole. Its wide field provides stereopsis well beyond the area seen by a conventional flat lens. The high magnification and resolution create very precise depth perception. It provides an excellent image for delicate work around the macula such as macular hole surgery or peeling of epiretinal membranes from the macula. It also is the lens of choice for videotaping macular procedures.

Product Code	Image Mag.	Lens Height	Static FOV	Dynamic FOV
OWIV-HMNA	.90x	13.5mm	57°	100°

LENSES ON THIS PAGE USE CLEANING METHOD 1

ASK ABOUT OUR DISCOUNTS ON MULTIPLE SETS!

OCULAR INVERTER VITRECTOMY SYSTEM

Designed to work with Zeiss, Zeiss type (Topcon, Moeller, etc.) and Leica (Wild) microscopes. Easy to operate with steam sterilizable knob. Short profile for use with all fixed and inclinable eyepieces. No light loss in upright mode. Virtually no image shift when switching between upright and inverting modes. Crystal clear optics. Compatible with all wide angle inverting vitrectomy lenses. Available with Ocular Wide Angle Vitrectomy Lenses.

Product Code	
OIVSL	IVS for Leica (Wild) Microscopes
OIVSZ	IVS for Zeiss and Zeiss Type Microscopes

INCLUDES:

Product Code	
OIVS-K	Rubber Adjustment Knob (steam sterilizable)
OIVS-SD	Screw Driver, slotted, 3/16"
OIVS-C	Carrying Case (shown in Cases, p. 41)

OCULAR VITRECTOMY LENS HANDLE

Designed to be used with the Wide Field and Equatorial lenses, the handle provides additional stability to the lens while sitting in the ring during a procedure.

Product Code
OLIV-H

Buy in sets AND SAVE!

IN ADDITION, **IVS SETS** INCLUDE:

PRODUCT CODE	WF	EQ II	HM	WFNA	EQNA	HMNA	Handle	Ring
OIVSL-WE	1	1					2	1
OIVSL-EH		1	1				1	1
OIVSL-WH	1		1				1	1
OIVSL-WEH	1	1	1				2	1
OIVSL-WENA				1	1		2	1
OIVSL-EHNA					1	1	1	1
OIVSL-WHNA				1		1	1	1
OIVSL-WEHNA				1	1	1	2	1
OIVSZ-WE	1	1					2	1
OIVSZ-EH		1	1				1	1
OIVSZ-WH	1		1				1	1
OIVSZ-WEH	1	1	1				2	1
OIVSZ-WENA				1	1		2	1
OIVSZ-EHNA					1	1	1	1
OIVSZ-WHNA				1		1	1	1
OIVSZ-WEHNA				1	1	1	2	1

All products in this section are also available separately.

NEW **OCULAR REICHEL VISCOUS CONTACT SYSTEM**

Integrates lens handle and delivery of viscoelastic or other solutions into one system. Designed for use with 5ml syringe*, which is not included. Can be bent as desired to suit individual preference. Designed to be used with all Ocular Instruments Wide Field and Equatorial vitrectomy lenses.

Product Code

ORVCS

**Can be used with BD 5ml syringe #309603 and BD Angiocath IV catheter #318123 (Remove needle prior to use). Recommended length of flexible catheter is 3-4mm, check for clearance between tip and patients eye prior to use.*

OCULAR LANDERS FOUR POST VITRECTOMY LENS RING

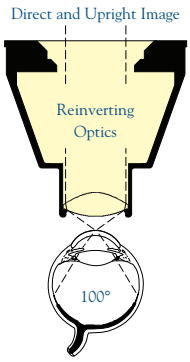
Two sutures placed over one post on each side hold this ring on the eye. Either post can be selected to center the ring over the patient's pupil.

Product Code

OLV-1/4P

OLIV-H AND OLV-1/4P USE CLEANING METHOD 3

OCULAR PEYMAN-WESSELS-LANDERS 132D UPRIGHT VITRECTOMY LENS



Upright Wide Field Image without the need for a microscope mounted inverter. The 132D imaging optic gives a very wide, non-contact view of the fundus and vitreous. Unlike conventional wide angle lenses, the image of this lens is upright to simplify vitreo-retinal surgery. 4mm working distance for maximum field. 7mm working distance allows view of far periphery without repositioning the lens. This lens was designed to be used with the Ocular Landers Wide Angle Surgical Viewing System (OSVS). It attaches to the OSVS using the Ocular 132D Upright Vitrectomy Lens Holder (OUV-H132-2). Steris System 1, gluteraldehyde, and EO compatible. Designed to allow a clear view in the fluid or air filled eye. Sterilizable case included.

Product Code	Image Mag.	Static FOV	Dynamic FOV
OUV 132-2	.45x	100°	135°

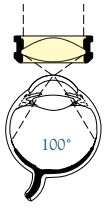
Journal reference: American Journal of Ophthalmology, Vol. 136, No. 1, pp 199-201, July 2003.

OCULAR 132D UPRIGHT VITRECTOMY LENS HOLDER

Ring holder for the Peyman-Wessels-Landers 132D Upright Vitrectomy Lens. Includes two adjustable links that snap onto the end of the slotted arm of the Surgical Viewing System.

Product Code
OUV-H132-2

OCULAR 132D INDIRECT VITRECTOMY LENS



Designed to be used on the OSVS in conjunction with an Inverter Vitrectomy System. Sterilizable case included. Non-contact design allows the patient's eye to be rotated freely to view the peripheral retina and vitreous.

Product Code	Image Mag.	Static FOV	Dynamic FOV
OIV 132	.45x	99°	135°

OCULAR 132D INDIRECT VITRECTOMY LENS HOLDER

Clip style holder for the Indirect 132D Upright Vitrectomy Lens. Includes two adjustable links that snap onto the end of the slotted arm of the Surgical Viewing System.

Product Code
OIV-H132

OUV 132-2 USES CLEANING METHOD 1;
ALL OTHER PRODUCTS ON THIS PAGE USE CLEANING METHOD 3

OCULAR LANDERS WIDE ANGLE SURGICAL VIEWING SYSTEM

Product Code
OSVS

Non-contact vitrectomy system designed with a flexible arm for positioning wide angle lenses which easily swings in and out of the surgical field. The OSVS [clamps] attaches to the wrist rest or surgical bed, freeing the surgeon's hands and the assistant to perform tasks other than holding a lens. When used with the Upright Vitrectomy Lens, the system allows the surgeon to work in the vitreous with an upright, non-reversed image under panoramic conditions. Can also hold an indirect lens for use with separate inverter. During surgery, operative work is performed both outside and inside the globe. Using lenses with the OSVS enables the surgeon to move back and forth smoothly and quickly. More affordable than similar systems.

INCLUDES:

Qty	Product Code	
1	OSVS-A	Arm, Slotted
1	OSVS-AC	Arm Clamp
1	OSVS-FC	Frame Clamp
2	OSVS-LFM	Link, Female/Male (extras)
2	OSVS-P	Post - 2 qty
1	OSVS-SC	Support Collar
1	OSVS-C	Carrying Case
1	OSVS-W	Wrench
2	OSVS-TS	Knobs (2 extra)

IN ADDITION, **SVS SETS** INCLUDE:

PRODUCT CODE	OUV 132-2	OIV 132	Lens Holder	Lens Case
OSVS-U132-2	1		1	1
OSVS-I132		1	1	1

All products in this section are also available separately.

USE CLEANING METHOD 3

SURGICAL LENSES

OCULAR DISPOSABLE VITRECTOMY LENSES

High resolution PMMA optics with a silicone flange for stability. Ocular Disposable Vitrectomy Lenses are designed to be used once, then discarded. Packaged individually in a sterile peel pack, and sold in a box of 10.
The silicone flange replaces the need for a suture-down ring.

1. **ODVB – BICONCAVE**
83D biconcave lens facilitates viewing the fundus in an air-filled vitreous cavity in phakic and pseudophakic eyes.

2. **ODVF – FLAT**
The plano anterior surface affords a 36° field of view of the central posterior pole and vitreous in phakic and pseudophakic eyes. This lens is ideal for photography.

3. **ODVM – MAGNIFYING**
For detailed examination and minute surgical manipulation of retinal membranes in phakic and pseudophakic eyes.

4. **ODVW – WIDE FIELD**
Concave anterior surface facilitates a 48° field of view when visualizing the central posterior pole and vitreous in phakic and pseudophakic eyes.

5. **ODV3P – 30° PRISM**
Provides visualization of the posterior peripheral fundus and vitreous beyond the equator with minimal distortion in phakic, aphakic and pseudophakic eyes.

LANDERS HIGH REFRACTIVE INDEX (HRI) VITRECTOMY LENS SET

Made from high refractive index glass, the HRI lenses offer a wider field of view, less distortion and reflections. Each possesses new curves and angles, resulting in sharper, clearer peripheral and posterior retinal and vitreous images when compared with earlier lenses. This means fewer lens changes during the surgical procedure. The Landers Tall Notched Lens Ring (no struts) makes scleral depression easier when operating in the region of the vitreous base. The Landers Occluder fits precisely in the lens ring and protects the macula from inadvertent light/photo damage. Set also includes five vitrectomy lenses, lens forceps and an autoclavable case.

HRI VITRECTOMY LENS SPECIFICATIONS

PRODUCT CODE	Image Mag	Static FOV
OLV-2 HRI	0.78x	28°
OLV-3 HRI	1.49x	34°
OLV-4 HRI	0.58x	48°
OLV-6 HRI	0.58x	44°
OLV-7 HRI	0.58x	38°

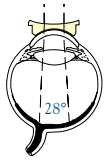
QUARTZ VITRECTOMY LENS SPECIFICATIONS

PRODUCT CODE	Image Mag	Static FOV
OLV-2	0.80x	25°
OLV-3	1.49x	30°
OLV-4	0.49x	48°
OLV-5	0.58x	36°
OLV-5SR	1.02x	36°
OLV-6	1.02x	36°
OLV-7	1.02x	33°
OLV-8	1.02x	22°
OLV-9	0.40x	18°

OLVS-HRI

Landers HRI Vitrectomy Lens Set includes:

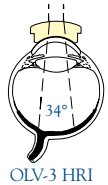
1. **OLV-2 HRI** Biconcave 90D Lens
90D biconcave lens facilitates viewing the fundus in an air-filled vitreous cavity in phakic and pseudophakic eyes.



OLV-2 HRI

2. **OLV-3 HRI** Magnifying Lens
For detailed examination and minute surgical manipulation of retinal membranes in phakic and pseudophakic eyes.

3. **OLV-4 HRI** Wide Field Lens
Plano anterior surface facilitates a 48° field of view when visualizing the central posterior pole and central vitreous in phakic and pseudophakic eyes.



OLV-3 HRI

4. **OLV-6 HRI** 20° Prism Lens
Provides visualization of the posterior peripheral fundus and posterior peripheral vitreous in phakic, aphakic and pseudophakic eyes.

OLV-4 HRI

5. **OLV-7 HRI** 30° Prism Lens
Provides visualization of the peripheral fundus and peripheral vitreous beyond the equator with minimal distortion in phakic, aphakic and pseudophakic eyes.

6. **OLV-1/TN** Landers Tall Notched Vitrectomy Lens Ring
This stainless steel ring is centered on the cornea. Three notches are designed in the top of the ring for suture placement on the sclera.

OLV-6 HRI

7. **OLV-OC** Landers Occluder
When placed in stainless steel ring, occluder blocks microscope light from entering patient's eye during external procedures such as suturing.

OLV-7 HRI

8. **OLV-FCP** Landers Lens Forceps
Stainless steel forceps simplify placement and removal of vitrectomy lenses used with suture down rings.

TRY SILICONE RINGS - HIGH STABILITY WITHOUT SUTURES

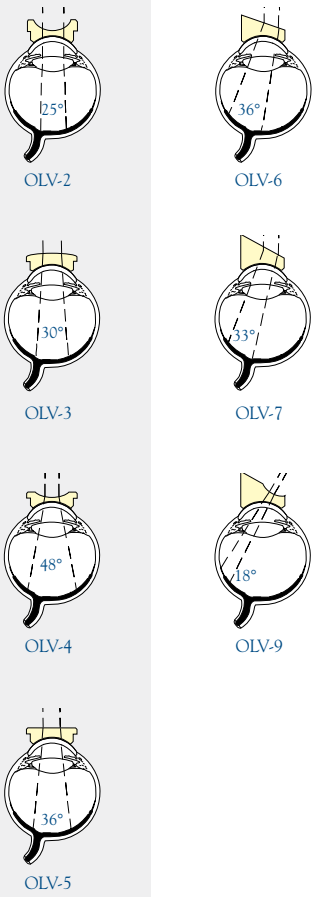
PRODUCTS ON THIS PAGE USE CLEANING METHOD 3

OCULAR LANDERS VITRECTOMY LENS RING SYSTEM

The Landers Vitrectomy Lens Ring System is available with your choice of the Landers Vitrectomy Lens Ring with two struts, or the Landers Tall Notched Vitrectomy Lens Ring (no struts), and includes the Landers Occluder, seven vitrectomy lenses, lens forceps and an autoclavable case.

OLVS-3 AND OLVS-3N

Ocular Landers Vitrectomy Lens Ring System includes:



1. **OLV-2** Landers Biconcave
   83D biconcave lens facilitates viewing the fundus in an air-filled vitreous cavity in phakic and pseudophakic eyes.

2. **OLV-3** Machemer Magnifying
   For detailed examination and minute surgical manipulation of retinal membranes in phakic and pseudophakic eyes.

3. **OLV-4** Peyman Wide Field
   Concave anterior surface facilitates a 48° field of view when visualizing the central posterior pole and vitreous in phakic and pseudophakic eyes.

4. **OLV-5** Machemer Flat
   The plano anterior surface affords a 36° field of view of the central posterior pole and vitreous in phakic and pseudophakic eyes. This lens is ideal for photography.

5. **OLV-6** Tolentino 20° Prism
   Provides visualization of the posterior peripheral fundus and vitreous in phakic, aphakic and pseudophakic eyes.

6. **OLV-7** Tolentino 30° Prism
   Provides visualization of the peripheral fundus and vitreous beyond the equator with minimal distortion in phakic, aphakic and pseudophakic eyes.

7. **OLV-9** Woldoff Prismatic Biconcave
   Designed to allow a clear view of the retinal periphery in the gas or air-filled phakic or pseudophakic eye. Very useful for laser endophotocoagulation in the periphery, or for visualizing the cannulated extrusion needle through a peripheral retinal break in the gas-filled phakic or pseudophakic eye.

8. **OLV-1** Landers Vitrectomy Lens Ring
   (included in set OLVS-3) Stainless steel ring with two suture down struts.

9. **OLV-1/TN** Landers Tall Notched Vitrectomy Lens Ring
   (included in set OLVS-3N) This stainless steel ring is centered on the cornea. Three notches are designed in the top of the ring for suture placement on the sclera.

10. **OLV-OC** Landers Occluder
    When placed in stainless steel ring, occluder blocks microscope light from entering patient's eye during external procedures such as suturing.

11. **OLV-FCP** Landers Lens Forceps
    Stainless steel forceps simplify placement and removal of vitrectomy lenses used with suture down rings.

PRODUCTS SOLD IN SETS ARE ALSO AVAILABLE SEPARATELY.

PRODUCTS ON THIS PAGE USE CLEANING METHOD 3

OCULAR VITRECTOMY LENS RINGS

OLV-1S LANDERS SILICONE
This flexible lens flange provides uncompromised lens stability during vitrectomy surgery. The silicone ring can be used with all Ocular wide field and Landers System vitrectomy lenses. The narrow flange allows full access to the surgical sites and is ideal for 25 gauge surgery. Four per package.

OLV-1/4P LANDERS FOUR POST
Two sutures placed over one post on each side hold this ring on the eye. Either post can be selected to center the ring over the patient's pupil.

OLV-1/IN LANDERS IRRIGATING NOTCHED
Irrigation version of notched ring. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

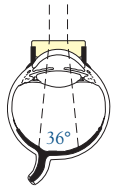
OLV-1 IR LANDERS IRRIGATING
This ring features an irrigation port. Sutures secure the two struts to the sclera which allows blood to be irrigated away and keeps the cornea moist. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

OTN-R TANO VITRECTOMY LENS RING
This ring, with four upright tabs for suturing, requires only one circumferential suture. Fast, easy positioning, adjustment and removal without cutting or removing the suture.

Journal Reference: Ophthalmic Surgery & Lasers, Vol. 27, No. 10, p. 891, October 1996

ALSO AVAILABLE:

OLV-5SR OCULAR MACHEMER PLUS
Our Machemer Flat Lens (OLV-5) is provided with a silicone flange. This combination is for observation or surgery of the central retina and vitreous when the use of a suture down ring is not desired.



OLV-8 OCULAR LANDERS 50° PRISM
Allows visualization for vitrectomy and endophotocoagulation procedures in the far peripheral retina in phakic and pseudophakic eyes.

PRODUCTS ON THIS PAGE USE CLEANING METHOD 3

PEDIATRIC VITRECTOMY LENS SPECIFICATIONS

PRODUCT CODE	Image Mag	Static FOV
OPV-B	1.03x	25°
OPV-F	1.02x	36°
OPV-P	1.02x	33°

OCULAR PEDIATRIC VITRECTOMY LENS SET

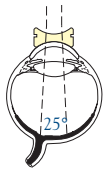
The Pediatric Vitrectomy Lens Set is for early Retinopathy of Prematurity and congenital developmental anomalies such as Primary Persistent Hyperplastic Vitreous. These 8mm diameter lenses provide a clear view of the entire retina and optic nerve while preventing accidental lens/cornea separation which often occurs with large adult lenses. A groove on the side of the lens allows securing with 3.0 orthopedic suture wire or the lens ring may be used. Set includes three lenses, lens ring, forceps and an autoclavable case.

OPV-S

Ocular Pediatric Vitrectomy Lens Set includes:

OPV-B Pediatric Biconcave

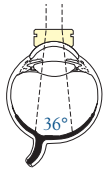
92D lens allows clear view of fundus in an air filled vitreous cavity in phakic eyes.



OPV-B

OPV-F Pediatric Flat

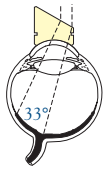
For visualizing the central posterior and central vitreous in a fluid filled eye.



OPV-F

OPV-P Pediatric Prism

Allows peripheral viewing beyond the equator with minimal distortion.



OPV-P

OPV-R Pediatric Vitrectomy Lens Ring

Stainless steel ring with two suture down struts.

OPV-FCP Pediatric Lens Forceps

Stainless steel forceps simplify placement and removal of vitrectomy lenses used with suture down rings.

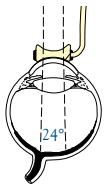
USE CLEANING METHOD 3

OCULAR HEXAGONAL VITRECTOMY LENSES

Ergonomically designed hexagonal infusion handle makes these lenses easy to hold and manipulate. Female Luer hub built in to end of handle. Unique ring design keeps infusion cannula out of the surgical field even at steep tilt angles. Four styles, Flat, Biconcave, Magnifying and Wide Field. Steam Sterilizable. To order a replacement Luer Tube Assembly order the OLTA-2, see accessory section.

Product Code	Style	Image Mag.	Contact Diameter	Static FOV
OHFVE	Flat	1.02x - fluid filled	11.8mm	36°
OHMVE	Magnifying	1.47x - fluid filled	11.8mm	30°
OHBVE	Biconcave	0.80x - air filled	11.8mm	24°
OHWVE	Wide Field	0.49x - fluid filled	11.8mm	48°
		1.12x - air filled		

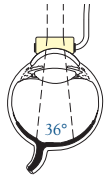
OCULAR LANDERS BICONCAVE VITRECTOMY LENS



Designed for vitreoretinal surgery in air filled phakic or pseudophakic eyes. Lens power 83D. Red infusion handle for easy identification. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

Product Code	Image Mag.	Contact Diameter	Static FOV
OBVI	.80x – air filled	9mm	24°

OCULAR FLAT VITRECTOMY LENS

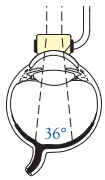


Used to visualize structures deep in the vitreous cavity or on retinal membranes. Plano anterior surface affords a 36° static field of view of the central posterior pole and vitreous in phakic and pseudophakic eyes. Very lightweight and can be used to tilt or indent the eye during surgery. Purple infusion handle for easy identification. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

Product Code	Image Mag.	Contact Diameter	Static FOV
OFVI	1.02x - fluid filled	10mm	36°

LENSES ON THIS PAGE USE CLEANING METHOD 3

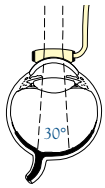
OCULAR PEDIATRIC FLAT VITRECTOMY LENS



Used to visualize structures deep in the vitreous cavity or on retinal membranes of children and infants. Plano anterior surface affords a 36° static field of view of the central posterior pole and vitreous in phakic and pseudophakic eyes. Very lightweight and can be used to tilt or indent the eye during surgery. Purple infusion handle for easy identification. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

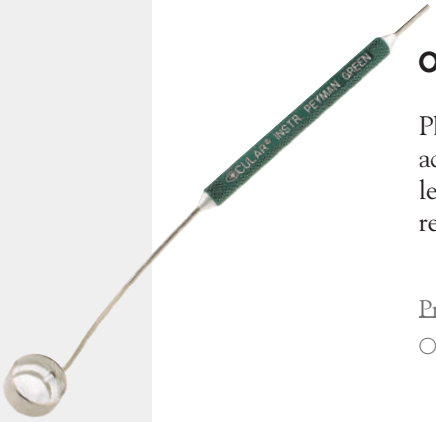
Product Code	Image Mag.	Contact Diameter	Static FOV
OPFVI	1.02x - fluid filled	7mm	36°

OCULAR MACHEMER MAGNIFYING VITRECTOMY LENS

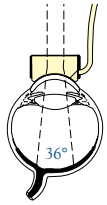


High magnification for delicate macular surgery. Works with phakic, pseudophakic and aphakic patients. Blue infusion handle for easy identification. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

Product Code	Image Mag.	Contact Diameter	Static FOV
OMVI	1.47x – fluid filled	10mm	30°



OCULAR PEYMAN-GREEN FLUID CELL VITRECTOMY LENS

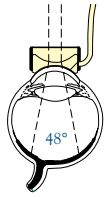


Plano anterior surface is recessed 3mm. Balanced salt solution or methylcellulose added to the top of the lens creates a wider field of view through a meniscus lens effect. Green infusion handle for easy identification. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

Product Code	Image Mag.	Contact Diameter	Static FOV
OPGVI	1.02x – fluid filled	12mm	36°

LENSES ON THIS PAGE USE CLEANING METHOD 3

OCULAR PEYMAN III WIDE FIELD VITRECTOMY LENS

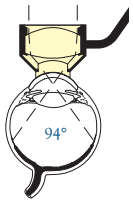


60D anterior surface for wide angle viewing in phakic and pseudophakic eyes. Allows visualization of the peripheral fundus for endo-photocoagulation in fluid or air filled vitreous. To order a replacement Luer Tube Assembly order the OLTA, see accessory section.

Product Code	Image Mag.	Contact Diameter	Static FOV
OPVI-3	0.49x – fluid filled 1.12x – air filled	12mm 12mm	48°

Journal Reference: Canadian Journal of Ophthalmology, June 1988

OCULAR PEYMAN PEDIATRIC WIDE FIELD VITRECTOMY LENS



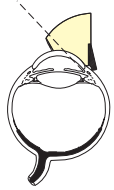
A two-piece lens designed for clinical situations where autoclaving is the primary method used for sterilization. Excellent for panoramic viewing of the far peripheral retina for both premature infants and adult patients. Designed to reduce image cropping from lens tilt on the eye. Indirect image - best used with image inverter.

Product Code	Gonio Mag.	Contact Diameter	Static FOV
OPPWV	.50x	7mm	94°

Journal reference: American Journal of Ophthalmology, pp. 236-237, February 2003.

OCULAR HILL SURGICAL GONIOPRISM

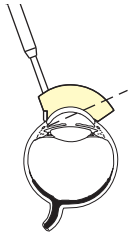
Designed for easy manipulation during goniotomy procedures and direct viewing gonioscopy procedures. An extended flange helps to fixate the globe during surgical procedures. Wide field of view lens provides a clear view of anterior chamber and anterior chamber angle during implantation and goniotomy procedures. Available in both left hand and right hand versions.



Product Code	Gonio Mag.	Contact Diameter	Static FOV
OHSG/LH	1.20x	9mm	90°
OHSG/RH	1.20x	9mm	90°

OCULAR KHAW SURGICAL GONIOPRISM

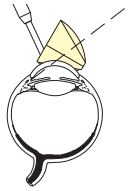
Creates a bright, clear image of the anterior chamber angle for goniotomy and intra-operative gonioscopy. This unique design features a fixation ring and handle to provide stabilization and easy manipulation of the globe.



Product Code	Image Mag	Contact Diameter	Handle Length
OKSG	1.40x	11.5mm	88.4mm

OKSG USES CLEANING METHOD 1; ALL OTHER PRODUCTS ON THIS PAGE USE CLEANING METHOD 3

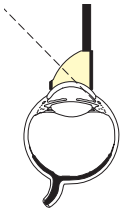
OCULAR SWAN JACOB AUTOCLAVABLE GONIOPRISM



Designed for direct viewing gonioscopy and goniotomy. Small size makes this lens useful for adult and pediatric postoperative gonioscopy. Anodized aluminum handle for easy manipulation. Glass design allows steam sterilization.

Product Code	Gonio Mag	Contact Diameter	Handle Length
OSJAG	1.20x	10mm	77.6mm

OCULAR THORPE SURGICAL GONIOSCOPE



Magnified view of the anterior chamber angle. Designed for goniotomy or checking the placement of an anterior chamber intraocular lens. Can be used with operating microscope or loupe.

Product Code	Gonio Mag	Contact Diameter	Handle Length
OTSG	1.10x	10mm	32.5mm

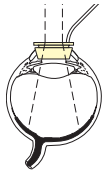
Journal Reference: Ophthalmic Surgery, pp. 66-68, November 1979

NEW OCULAR HOSKINS-BARKAN GONIOTOMY LENSES

Designed for transverse goniotomy surgery with the operating microscope, but can also be used as a diagnostic lens. The infant lens is oval and conical in shape, with a 10mm diameter magnified view of the anterior chamber and anterior chamber angle. The premature infant lens is the same in shape and design except the dimension are 1mm smaller for premature infant surgery. An adult size of 11.5mm diameter is also available.

Product Code	Style	Size	Gonio mag
OHBG-1	Infant	10mm	1.30x
OHBG-2	Premature Infant	9mm	1.30x
OHBG-3	Adult	11.5mm	1.30x

OCULAR COBO TEMPORARY KERATOPROSTHESIS

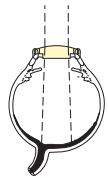


The Cobo Temporary Keratoprosthesis is a truncated cone made of quartz and is autoclavable. Built into the keratoprosthesis is a superior groove that allows for suture fixation to the globe. The stainless steel infusion handle is used for injection of either fluid or gas for internal tamponade in the event of intraoperative hemorrhage or serious choroidal hemorrhage. The clear plano anterior surface allows intraoperative visualization of the posterior pole.

Product Code	Contact Diam	Handle Length
OCTK-6.5	6.5mm	40mm

OHBG-1,-2,-3,AND OTSG USE CLEANING METHOD 1
OSJAG, OCTK-6.5 USE CLEANING METHOD 3

OCULAR LANDERS WIDE FIELD TEMPORARY KERATOPROSTHESIS



A 32D convex anterior surface facilitates viewing of the peripheral retina and posterior pole. 6 suture holes around the peripheral edge of the lens. Sutures hold keratoprosthesis in place and seal the eye for closed system vitrectomy. Two sizes for 7.0 or 8.0 trephination sizes. Vitrectomy lenses may be placed on top of the keratoprosthesis to alter magnification or field of view.

Product Code	Image Magnification	Contact Diam	Static FOV
OLTK-7.2	2.29x	7.2mm	28°
OLTK-8.2	2.29x	8.2mm	30°

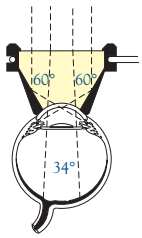
Journal Reference: *American Journal of Ophthalmology, Vol. 122, No. 4, pp. 579-580, 1996*
Ophthalmology, Vol. 102, No. 12, pp. 1932-1935, December 1995

OSHER SURGICAL VIEWING KIT

An ideal combination of lenses to have on hand during Cataract surgery. The Osher Surgical Gonio Posterior Pole Lens (OOSGP) gives an easy 360° view of the anterior chamber angle and a magnified view of the posterior pole. The Osher Maxfield® 78D Lens (OI-78M) allows a wide field, non-contact view of the retina with minimal adjustment of the surgical microscope.

Product Code
OSVK

OCULAR OSHER SURGICAL GONIO POSTERIOR POLE LENS



Two 60° gonioscopy mirrors. Posterior pole view through the center of lens. Handle design allows easy lens rotation for 360° anterior chamber angle viewing. Steam autoclavable for rapid surgical preparation. Retina image mag 1.02x.

Product Code	Gonio Mag.	Contact Diameter	Static FOV
OOSGP	.84x	14mm	38°

OCULAR OSHER MAXFIELD® 78D

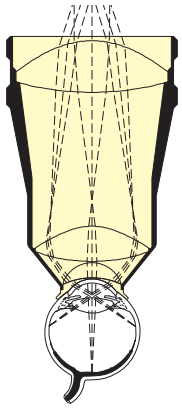
Formerly called the Osher Panfundus Lens. 78D high refractive index glass lens gives wider field than a regular 78. Very high resolution and wide field for slit lamp fundus examination. Unique design minimizes reflections. Works very well with surgical microscope. Available with red, blue, green, gold, purple, or traditional black holding ring. Now available with our new Laserlight® HD anti-reflexive coating. See coatings and materials (page 66) for more details.

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Dynamic FOV	Working Distance	Clear Aperture	Lens Weight
OI-78M	.77x	1.30x	98°	155°	7mm	27mm	21g

Osher Kit Lenses Also Available Separately.

OLTK-7.2 AND OLTK 8.2 USE CLEANING METHOD 1; OI-78M USES CLEANING METHOD 2, OOSGP USE CLEANING METHOD 3

OCULAR STAURENGHI 230 SLO RETINA LENS

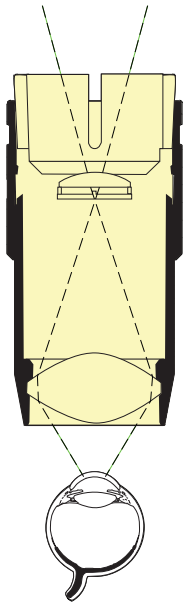


Intended for use in conjunction with a confocal scanning laser ophthalmoscope (SLO) to visualize structures of the retina and ocular fundus. It is optimized for use in obtaining high-resolution wide field fluorescein and indocyanine green angiography images. Effective in obtaining fundus reflectance images with green and infrared light. Beneficial for diagnosis of diabetic retinopathy, peripheral retinal disorders such as hereditary chorioretinal disorders, inflammatory diseases, and to document retinoschisis and retinal detachment.

Product Code	Contact Diameter	Static FOV	Image Magnification
OSR230	19mm	150°	.23x

Patent pending.
Journal reference: Arch Opthalmol, Vol. 123, pp. 244-252, February 2005.

NEW OCULAR LEE-MAINSTER SLO LENS



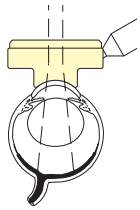
The Ocular Lee-Mainster SLO Lens doubles the field of view of the Heidelberg Engineering HRA2 (30° setting gives 60° field of view). Instantaneous wide field of view imaging for peripheral dynamic angiography. Specially coated optics to reduce reflections and provide enhanced image contrast during fluorescein and indocyanine green angiography. Provides wide angle infrared images. Non-contact for ease and comfort of the patient.

Product Code	Image Mag
OSLO60-2	.50x

Patent pending.

LENSES ON THIS PAGE USE CLEANING METHOD 1

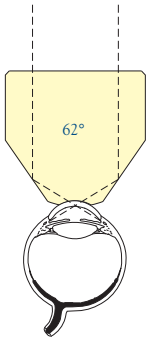
OCULAR FUNDUS 5.4 LASER LENS



Provides clear visualization of the ocular fundus and posterior pole. Plano anterior surface. Designed for rats.

Product Code	Contact Diameter	Lens Height	Handle Length
OFA5.4	5.4mm	5.8mm	78.8mm

OCULAR 2MM GONIOPRISM LENS

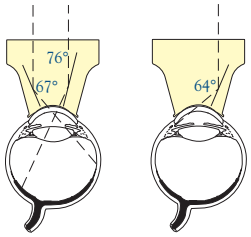


Allows non-invasive visualization of the structures of the anterior chamber angle, including Schlemm's canal, trabecular meshwork, iris and anterior surface of the peripheral ciliary body. Designed for mice and rats but can be used to examine other animals. Excellent for goniophotography. High quality magnified views of the optic nerve, retinal vessels and posterior retina are easily obtained. Also available with a handle.

Product Code	Contact Diameter	Lens Height	Handle Length
OGP2	2mm	8.6mm	NA
OGP2H	2mm	8.6mm	78.8mm

Journal Reference: *Molecular Vision 2000, Vol. 8, pp. 26-31, February 2002*

OCULAR KAUFMAN LASER LENS



Designed for visualization and laser procedures of the retina in all species of monkey. Single mirror lens is set at 64°. Two mirror lens has mirrors set at 67° and 76°. Ocular's Laserlight® high efficiency, broad band, anti-reflective coating provides optimal image contrast, minimizes bothersome reflections and maximizes visible near infrared (IR) laser transmission.

Product Code	Contact Diameter	Lens Height
OK2MA	13mm	19.5mm
OKSMA	13mm	19.5mm

NEW OCULAR HRA 20D LENS ADAPTER

The Ocular HRA 20D Lens Adapter slides over the objective lens of the HRA and holds a small 20D out in front of the HRA. The 20D changes the optics of the HRA resulting in a fairly wide field view of a rat retina.

Product Code
OHLA20

OCULAR RESEARCH LENSES USE CLEANING METHOD 1

OCULAR BARRAQUER OPERATING ROOM TONOMETERS

Barraquer Tonometers are based on Maklakov's principle of applanation tonometry. By direct corneal contact, the meniscus ring can be compared to determine intraocular pressure.

OCULAR BARRAQUER 10-15 AND 15-21

Featuring the Terry dual calibration scale. Useful for many surgical applications. Two pressure ranges, 10-15mm Hg or 15-21mm Hg. The 15-21 is an excellent tool for vitreoretinal surgery during gas-fluid exchange.

Product Code	Contact Diam.	Lens Height
OBT-TC-10-15	10mm	23.5mm
OBT-TC-15-21	10mm	23.5mm

OCULAR BARRAQUER 65

65mm Hg calibration scale measures the intraocular pressure when performing LASIK.

Product Code	Contact Diam.	Lens Height
OBT-65	10mm	47mm

OCULAR BARRAQUER 65/90

Measures pressures ranging from 65-90mm Hg when performing LASIK. Two engraved ring reticles on the endpoint indicate a predetermined intraocular pressure of 65mm Hg or 90mm Hg. The smaller ring is 90mm Hg.

Product Code	Contact Diam.	Lens Height
OBT-65/90	8mm	72mm

OCULAR TONOMETERS USE CLEANING METHOD 4

TONOMETERS

OCULAR BARRON BARRAQUER 65/90

Two engraved ring reticles on the endpoint indicate a predetermined intraocular pressure of 65mm Hg or 90mm Hg. The smaller ring is 90mm Hg. The tonometer is 2.76 inches long and designed to be used with the Barron microkeratome. The 8mm contact tip is useful with small internal diameter microkeratomes.

Product Code	Contact Diam.	Lens Height
OBBT	8mm	67mm

OCULAR BARRAQUER VARLEY 90

90mm Hg calibration scale measures the intraocular pressure when performing LASIK. Compact design provides maximum working distance between tonometer and microscope.

Product Code	Contact Diam.	Lens Height
OBVT	8mm	56mm

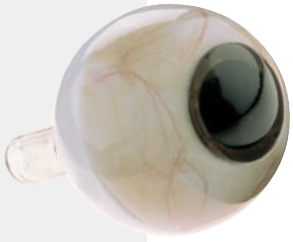
OCULAR BARRAQUER TONOMETER SILICONE RING
(ACCESSORY FOR THE TONOMETERS ABOVE)

Replacement silicone ring, sold in a package of 5.

Product Code
OBT-O

OCULAR TONOMETERS USE CLEANING METHOD 4

EDUCATIONAL AIDES



OCULAR FUNDUS EYE MODEL WITH EYE FILL KIT

Designed primarily to assist in teaching slit lamp biomicroscopy and ophthalmoscopy. Every effort has been made to duplicate pathological problems found in the human eye. Each model has a retinal detachment showing an elevated retina and retinal tear. It also displays a foreign body, optic disc and blood vessels. A line at the 180 degree meridian designates the region of the equator. Two styles are available. Fundus Eye Model with 8mm pupil (OEM-F) and Fundus Eye Model with 2mm pupil (OEM-F2). The 2mm design can also be used for gonioscopy as a pseudo anterior chamber angle can be seen. A peg on the back of each model fits into the Ocular Eye Model Bracket (OEMB1 – Purchased Separately) which can be attached to the vertical post of the slit lamp chin rest.

Product Code	Description
OEM-F	8mm Fundus Eye Model
OEM-F2	2mm Fundus Eye Model

NEW OCULAR IMAGING EYE MODEL

The most realistic eye model available for Ocular fundus imaging. The unique design incorporates an anterior chamber, crystalline lens, and fundus. Model provides superior demonstration and training of common ophthalmic imaging devices. This eye model incorporates many useful features not available in other eye models, including a retinal detachment showing an elevated retina, a foreign body, optic disc, and blood vessels. In addition, fluorescent features within the eye allow simulated fluorescein imaging. A line at the 180° meridian designates the region of the equator. A peg on the bottom of the model fits into the Ocular Eye Model Bracket (OEMB1) which can be attached to the vertical post of the slit lamp chin rest.

Product Code	Style
OEMI-7	7mm Imaging Eye Model

OCULAR EYE MODEL BRACKET

Designed with a position-adjustable post used to attach the eye model to the vertical post of the slit lamp chin rest.

Product Code
OEMB1

OCULAR TABLE TOP EYE MODEL HOLDER

Holds eye model at 52° angle while allowing free rotation of the eye model. Particularly useful for teaching the use of the binocular indirect ophthalmoscope.

Product Code
OEMB2

OCULAR EYE MODEL FILL KIT

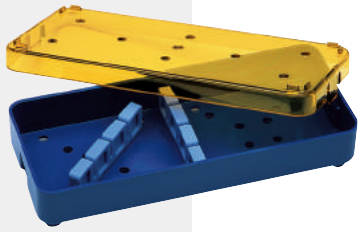
Replacement fill kit includes a 3cc syringe, 21 gauge blunt needle, 1/16 hex key and a bottle of mineral oil.

Product Code
OEMFK

OCULAR MULTI-LENS CASES

Walnut lens cases built to your specification. Three standard sizes. Other sizes available on request. Contact our Customer Service department for a custom lens case order form.

Product Code	Style	Size
OCC-1	2 Lens	2" x 3" Short
OCC-2	2 Lens	2" x 3" Tall
OCC-3	3 - 6 Lens	4" x 6"



OCULAR INDIRECT STERILIZING TRAY

Sterilizing tray for Ocular Indirect Ophthalmoscopy lenses. It makes ethylene oxide and cold sterilization of lenses quick and easy. This stackable, durable tray gently holds lenses to protect them during sterilization.

Product Code
OI-ST

NEW OCULAR VITRECTOMY LENS CASES

Sterilization/storage cases for Ocular Vitrectomy lenses. An excellent choice for the autoclave. Also makes ethylene oxide and cold sterilization of lenses quick and easy. Several sizes available.

Product Code	Style
OLV-C	8 Lens
OLV-C2	2 Lens
OLV-C3	10 Lens
OLV-C3 HRI	10 Lens
OLV-C4	AC, (O4MAC, O4MAC-LR)

OCULAR SURGICAL VIEWING SYSTEM CASES

Custom cut foam liner in a heavyweight black plastic case for transport and storage of Ocular Wide Angle Surgical Systems.

Product Code
OIVS-C
OSVS-C

OCULAR LENS CLEANING CLOTH

Light, dry-wipe, silky smooth microfiber cloth with Ocular logo imprint. Vinyl carrying case included. Autoclavable lens cleaning cloth also available.

Product Code	
OLCC	Blue, Traditional
OLCCA	White, Autuclavable

NEW OCULAR LEATHER SOFT CASE

Stylish, black leather exterior and microfiber interior lens pouch. Ideal for protecting your lens while transporting it between exam rooms.

Product Code	
OLSC4	4" Case

OCULAR GONIOSCOPIC SOLUTION HOLDER

Designed to hold an inverted gonioscopic solution container to minimize air bubbles. Made of heavy PMMA.

Product Code
OGSH

OCULAR MAXAC™ (AUTOCLAVABLE) LENS STAND

The lens stand minimizes water spots from the autoclave. Use during sterilization to hold the lens or lens sterilization case on edge.

Product Code
OI-LSA

NEW OCULAR AUTOCLAVABLE THREE MIRROR LENS FLANGE

Flange designed to be installed on glass Ocular Autoclavable Three Mirror Lens (OG3MAC-10) and Ocular High Definition Three Mirror Lens (OG3MHD-10). Flange made of durable medical polymer, will not break during normal handling and use. Eliminates the need to purchase additional lenses with dedicated flanges. Flange cover is easily removed from the autoclavable glass lens for cleaning and sterilization. Compatible with most common disinfection and sterilization methods including steam sterilization.

Product Code	Flange Diameter
OACF-15	15mm
OACF-17	17mm

NEW OCULAR FOUR MIRROR LENS FLANGE

Flange designed to be installed on the glass Ocular MaxField® Autoclavable Four Mirror Gonio Lens (O4MAC, O4MAC-LR), and the Ocular Gaasterland Four Mirror Gonio Lens (OG4MG, OG4MG-LR). Flange made of durable medical polymer, will not break during normal handling and use. Eliminates the need to purchase additional lenses with dedicated flanges. Flange cover is easily removed from the lens for cleaning and sterilization. Compatible with most common disinfection and sterilization methods including steam sterilization.

Product Code	Flange Diameter
OACF4-15	15mm
OACF4-17	17mm

OCULAR KAPETANSKY WATER BATH

Designed for ultrasound biomicroscopy, the saddle shape of the cup makes an ideal fit for the anterior sclera and thereby minimizes the loss of saline solution. The design makes it easier to install and more comfortable for the patient as compared to other currently used eye cups. In addition, the fluid reservoir attached to the top of the cup provides a depth of saline which is more than adequate for the ultrasonic probe to function properly. Steam Autoclavable.

Product Code
OKWB21

NEW OCULAR LUER TUBE ASSEMBLY

Replacement Luer Tube Assembly for the vitrectomy infusion handled lenses.

Product Code	Style
OLTA	Replacement part for OBVI, OFVI, OPFVI, OMVI, OPGVI, OPVI-3, OLV-1/IN, OLV-1IR
OLTA-2	Replacement part for OHBVE, OHFVE, OHMVE, OHWVE

OCULAR LENS PROTECTION RINGS

Lens protection rings slip over the top of lenses to guard against accidental scratches. Knurled edges provide a secure gripping surface.

Product Code	Style
OLPR-L	Large Lens
OLPR-M	Medium Lens
OLPR-RIT	Ritch Trabeculoplasty
OLPR-S	Small Lens
OLPR-SUS	Sussman
OLPR-SUS-2	Sussman Large Ring

CLEANING METHOD 1

PRODUCT CARE INSTRUCTIONS FOR ALL **Ocular Argon/Diode, YAG & Diagnostic Lenses**

PLUS

OKSG, Khaw Surgical Gonioprism

OLIV-EQNA, Landers NA Equatorial Vitrectomy Lens

OLIV-WFNA, Landers NA Wide Field Vitrectomy Lens

OLTK-7.2 or 8.2, Landers Wide Field Temporary Keratoprosthesis

OTSG, Thorpe Surgical Gonioscope

OUV 132-2, Peyman-Wessels-Landers 132D Upright Vitrectomy Lens

OWIV-HMNA, Woldoff NA High Mag Vitrectomy Lens

EXCEPT: *(See Cleaning Method 3)* O4MAC, O4MAC-15, O4MAC-17, O4MAC-H, O4MAC-LR, O4MAC-LR-15, O4MAC-LR-17, MaxField® AC Four Mirror Gonio, OG3MAC-10, OG3MAC-15, OG3MAC-17, Autoclavable Three Mirror.

For information on compatibility with alternative product care methods, contact Customer Service.

1-800-888-6616 (USA)
contact@ocular-instruments.com

CLEANING

Rinse:	Immediately upon removal from patient's eye, thoroughly rinse in cool or tepid water.
Wash:	Place a few drops of mild soap on a moistened cotton ball. Gently clean with a circular motion.
Rinse:	Thoroughly rinse in cool or tepid water, then dry carefully with a non-linting tissue.
Then:	Proceed with either disinfection or sterilization instructions.

DISINFECTION

Soak In:	GLUTARALDEHYDE	2% or 3.4% aqueous solution. Temperature per manufacturer instructions. Minimum exposure time: 20 minutes.
or	BLEACH	10% solution mixed at: 1 part bleach to 9 parts water. Recommended exposure time: 10 minutes.

CAUTION

To avoid damage to the lens do not exceed recommended exposure time.

Then: Rinse lens thoroughly to remove disinfection solution. 3 cycles of 1 minute, with cool or tepid water is recommended.

Dry carefully and place in a dry storage case.

NOTE

These lenses are known to be compatible with:
Ascepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, and Opti-Cide.

Also compatible with H_2O_2-3%, except the following lenses:
OG3M-10, Three Mirror 10mm Diagnostic
OPDSG, OPDSG-2, OPDSG-3, Posner Gonioprisms
OS4M, OS4M -2, Sussman Gonioscope
OK4DG, Khaw Direct View Gonio

CAUTION

If used on an ulcerated cornea, lens must be sterilized before next procedure.

PRODUCT CARE INSTRUCTIONS FOR ALL **Ocular Argon/Diode, YAG & Diagnostic Lenses**

PLUS

OKSG, Khaw Surgical Gonioprism

OLIV-EQNA, Landers NA Equatorial Vitrectomy Lens

OLIV-WFNA, Landers NA Wide Field Vitrectomy Lens

OLTK-7.2 or 8.2, Landers Wide Field Temporary Keratoprosthesis

OTSG, Thorpe Surgical Gonioscope

OUV 132-2, Peyman-Wessels-Landers 132D Upright Vitrectomy Lens

OWIV-HMNA, Woldoff NA High Mag Vitrectomy Lens

EXCEPT: *(See Cleaning Method 3)* O4MAC, O4MAC-15, O4MAC-17, O4MAC-H, O4MAC-LR, O4MAC-LR-15, O4MAC-LR-17, MaxField® AC Four Mirror Gonio, OG3MAC-10, OG3MAC-15, OG3MAC-17, Autoclavable Three Mirror.

STERILIZATION – EO

Minimum Time: 1 Hour
Temperature: 130°F (54°C)
Aeration Time: 12 Hours

STERILIZATION – STEAM AUTOCLAVE

No.

STERILIZATION – STERIS SYSTEM 1

Follow manufacturer's instructions. Steris not compatible with Posners (OPDSG, OPDSG-2, OPDSG-3), Sussmans (OS4M, OS4M-2), OK4DG, Mainsters (OMRA-S, OMRA-S-2, OMRA-HM, OMRA-HM-2, OMRA-WF, OMRA-WF-2) OG3M-10, OGP2 and OGP2H.

STERILIZATION – STERRAD

No.

WARNING

Never steam Autoclave or boil listed lenses.
Never soak in alcohol, H_2O_2, acetone or other solvents.

PRODUCT CARE
INSTRUCTIONS FOR ALL
Ocular MaxField® (Glass) and MaxLight® (CR-39) Indirect Diagnostic/ Laser Lenses

EXCEPT: *(See Cleaning Method 3)*
O1-20A, MaxAC™ 20D Indirect
O1-28A, MaxAC™ 28D Indirect

CLEANING

Wipe: Clean with alcohol wipe.

Then: Proceed with either disinfection or sterilization instructions.

DISINFECTION

Soak In:	GLUTARALDEHYDE	2% or 3.4% aqueous solution. Temperature per manufacturer instructions. Minimum exposure time: 20 minutes.
or	BLEACH	10% solution mixed at: 1 part bleach to 9 parts water. Recommended exposure time: 10 minutes.

CAUTION

To avoid damage to the lens do not exceed recommended exposure time.

Then: Rinse lens thoroughly to remove disinfection solution. 3 cycles of 1 minute, with cool or tepid water is recommended.

Dry carefully and place in a dry storage case.

NOTE

These lenses are known to be compatible with:
Ascepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, and Opti-Cide.

MaxField® lenses are also compatible with H_2O_2-3%.

For information on compatibility with alternative product care methods, contact Customer Service.

1-800-888-6616 (USA)
contact@ocular-instruments.com

PRODUCT CARE INSTRUCTIONS FOR ALL

Ocular MaxField® (Glass) and MaxLight® (CR-39) Indirect Diagnostic/ Laser Lenses

EXCEPT: *(See Celaning Method 3)*
O1-20A, MaxAC™ 20D Indirect
O1-28A, MaxAC™ 28D Indirect

STERILIZATION – EO

Minimum Time: 1 Hour
Temperature: 130°F (54°C)
Aeration Time: 12 Hours

STERILIZATION – STEAM AUTOCLAVE

No.

STERILIZATION – STERIS SYSTEM 1

Follow manufacturer's instructions for MaxField® (glass) lenses.
Not Compatible with MaxLight® (CR-39) lenses.

STERILIZATION – STERRAD

No.

WARNING

Never steam autoclave or boil listed lenses.
Never soak in alcohol, H_2O_2, acetone or other solvents.

PRODUCT CARE INSTRUCTIONS FOR

OI-20A, OI-28A, O4MAC, O4MAC-H, O4MAC-LR, OG3MAC-10, all Ocular Surgical Lenses and Rings

EXCEPT: *(See Cleaning Method 1)*

OKSG, Khaw Surgical Gonioprism

OLIV-EQNA, Landers NA Equatorial Vitrectomy Lens

OLIV-WFNA, Landers NA Wide Field Vitrectomy Lens

OLTK-7.2 or 8.2, Landers Wide Field Temporary Keratoprosthesis

OTSG, Thorpe Surgical Gonioscope

OUV 132-2, Peyman-Wessels-Landers 132D Upright Vitrectomy Lens

OWIV-HMNA, Woldoff NA High Mag Vitrectomy Lens

Note: The old style OSJG, Swan Jacob Gonioprism is not autoclavable. Use Cleaning Method 1.

For information on compatibility with alternative product care methods, contact Customer Service.

1-800-888-6616 (USA)
contact@ocular-instruments.com

CLEANING

Rinse: Immediately upon removal from patient's eye, thoroughly rinse in cool or tepid water.

Wash: Place a few drops of mild soap on a moistened cotton ball. Gently clean with a circular motion.

CAUTION

If fluid/gas exchange has occurred, wipe lens with alcohol to remove any trace of oil present. If lens is not promptly and properly cleaned, permanent damage may result.

Rinse: Thoroughly rinse in cool or tepid water, then dry carefully with a non-linting tissue.

Then: Proceed with either disinfection or sterilization instructions.

DISINFECTION

Soak In: GLUTARALDEHYDE — 2% or 3.4% aqueous solution. Temperature per manufacturer instructions. Minimum exposure time: 20 minutes.

or BLEACH — 10% solution mixed at: 1 part bleach to 9 parts water. Recommended exposure time: 10 minutes.

CAUTION

To avoid damage to the lens do not exceed recommended exposure time.

Then: Rinse lens thoroughly to remove disinfection solution. 3 cycles of 1 minute, with cool or tepid water is recommended.

Dry carefully and place in a dry storage case.

NOTE

These lenses are known to be compatible with: Ascepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, Opti-Cide, and H_2O_2-3%.

CAUTION

If used on an ulcerated cornea, lens must be sterilized before next procedure.

PRODUCT CARE INSTRUCTIONS FOR

OI-20A, OI-28A, O4MAC, O4MAC-H, O4MAC-LR, OG3MAC-10, all Ocular Surgical Lenses and Rings

EXCEPT: *(See Cleaning Method 1)*
OKSG, Khaw Surgical Gonioprism

OLIV-EQNA, Landers NA Equatorial Vitrectomy Lens

OLIV-WFNA, Landers NA Wide Field Vitrectomy Lens

OLTK-7.2 or 8.2, Landers Wide Field Temporary Keratoprosthesis

OTSG, Thorpe Surgical Gonioscope

OUV 132-2, Peyman-Wessels-Landers 132D Upright Vitrectomy Lens

OWIV-HMNA, Woldoff NA High Mag Vitrectomy Lens

Note: The old style OSJG, Swan Jacob Gonioprism is not autoclavable. Use Cleaning Method 1.

STERILIZATION – EO

Minimum Time: 1 Hour
Temperature: 130°F (54°C)
Aeration Time: 12 Hours

STERILIZATION – STEAM AUTOCLAVE

Prep: Place product in sterilization case.

Process: Standard Cycle (wrapped)
Temperature: 270°F (134°C)
Time: 15 minutes minimum
or
Temperature: 250°F (121°C)
Time: 30 minutes minimum

CAUTION

Use only distilled water in the steam sterilizer. If not distilled, mineral deposits from hard water (steam) will leave a cloudy film on the lens. The deposit can only be removed by regrinding and re-polishing the lens and repair costs approximate that of a new lens.

Store: Biological peel pouch ensures sterility after the sterilization process.

FOR IMMEDIATE USE ONLY

Flash autoclave (unwrapped) at a minimum of 270°F (134°C) for a minimum of 10 minutes.

Note: Allow HRI Vitrectomy lenses to air cool. Rapid cooling as in cool water rinse may fracture the lens.

STERILIZATION – STERIS SYSTEM 1

Follow manufacturer's instructions.

STERILIZATION – STERRAD

No.

PRODUCT CARE
INSTRUCTIONS FOR ALL
Ocular Tonometers

CLEANING

Rinse:	Immediately upon removal from patient's eye, thoroughly rinse in cool or tepid water.
Wash:	Place a few drops of mild soap on a moistened cotton ball. Gently clean with a circular motion.
Rinse:	Thoroughly rinse in cool or tepid water, then dry carefully with a non-linting tissue.
Then:	Proceed with either disinfection or sterilization instructions.

DISINFECTION

Soak In:	GLUTARALDEHYDE	2% or 3.4% aqueous solution. Temperature per manufacturer instructions. Minimum exposure time: 20 minutes.
or	BLEACH	10% solution mixed at: 1 part bleach to 9 parts water. Recommended exposure time: 10 minutes.

CAUTION

To avoid damage to the lens do not exceed recommended exposure time.

Then: Rinse lens thoroughly to remove disinfection solution. 3 cycles of 1 minute, with cool or tepid water is recommended.

Dry carefully and place in a dry storage case.

NOTE

These lenses are known to be compatible with:
Ascepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, Opti-Cide, and H_2O_2-3%.

CAUTION

If used on an ulcerated cornea, lens must be sterilized before next procedure.

For information on compatibility with alternative product care methods, contact Customer Service.

1-800-888-6616 (USA)
contact@ocular-instruments.com

STERILIZATION – EO

Minimum Time: 1 Hour
Temperature: 130°F (54°C)
Aeration Time: 12 Hours

STERILIZATION – STEAM AUTOCLAVE

Prep: Tonometer should be disassembled and thoroughly washed so that it is free of mucous, sebaceous deposits or other debris.

Place: Place all three parts in a tray taking care to protect the tonometer from damage by contact with other instruments.

Process: Flash Autoclave (unwrapped) for four (4) minutes at 270°F or 134°C. No dry time.
WARNING: Remove promptly, longer exposure will damage lens. The intense heat for an extended time will cause the plastic to cloud.

Then: Reassemble before use. In the absence of the ring, a false reading will occur.

STERILIZATION – STERIS SYSTEM 1

Follow manufacturer's instructions.

STERILIZATION – STERRAD

No.

WARNING

Never soak in alcohol, acetone or other solvents.

Note: Tonometers have a lifetime of 5 years. After a period of 2 years of purchase, check for the following: any visual damage, easy gliding and turning without any resistance, no complete rip of the white 'O' type joint ring, scratches on applanation (contact surface), complete visibility of engraved white ring on applanation (contact surface).

LASERLIGHT® ANTI-REFLECTIVE COATINGS

OCULAR INSTRUMENTS RECOMMENDS YOU ORDER LENSES WITH ANTI-REFLECTIVE COATING FOR ALL YOUR DIAGNOSTIC PROCEDURES.

The Laserlight® anti-reflective coatings provided with our indirect and laser lenses minimize reflection and maximize image brightness. The unique hydrophobic properties make Laserlight coated lenses very easy to clean. Each coating type provides low reflectivity and high transmittance for the entire visible spectrum. Additionally, for non-visible lasers such as Nd:YAG lasers, the coating design has been enhanced for low reflectivity at the specific laser wavelength. In other words, Ocular YAG Lenses are compatible with visible and diode lasers, but Ocular Argon/Diode Lenses are not recommended for use with Nd:YAG lasers.

NEW LASERLIGHT® HD ANTI-REFLECTIVE COATING

The new Laserlight® HD anti-reflective coating was specially designed to minimize reflection on high index lenses. The high definition images that can be achieved with this coating are ideal for digital imaging applications. Reflections are reduced 50-80% compared with traditional coatings. Laserlight® HD significantly increases image brightness and maximizes laser efficiency. Laserlight® HD has a more spectrally neutral reflection and yields a more natural image color palette. It surpasses MIL-C-48497 standard for coating durability and is highly scratch resistant.

CONSIDER SOME OF THE BENEFITS OF ANTI-REFLECTIVE COATINGS...

Minimum reflection and enhanced image quality are essential considerations for slit lamp examinations. Many eye doctors are converting to exclusive use of laser lenses for diagnostic use, because of significantly greater image clarity and resolution. For laser application, transmission of the treatment beam is maximized. This is important for optimizing the interaction of the laser energy with the target tissue. Reflectance of the aiming beam and slit lamp source is minimized. Although there is certainly a safety factor added by reducing these reflections, the primary benefit is an increase in image contrast and resolution of the treatment area.

LENS MATERIALS

OPTICAL COMPONENTS

All Ocular Instruments lenses are designed and manufactured using the finest grade optical polymers and glasses. Materials are chosen that best meet the performance requirements of each design. Total system design encompasses the primary requirements of optical image quality, sterilization method, durability and the essential elements of ergonomics, weight and cost.

LATEX FREE PRODUCTS

Ocular Instruments products do not contain latex.

GUARANTEE

At Ocular Instruments, we take great pride in our reputation for manufacturing the world's highest quality ophthalmoscopic lenses. If, for any reason, an Ocular Instruments product does not meet your requirements or expectations, you may return it to us within 30 days of purchase for a full refund. *(Please contact customer service for RA#)*

All Ocular Instruments products are unconditionally guaranteed against defects in materials and workmanship within 1 year of the invoice date. Additionally, Ocular Instruments Slit Lamp Biomicroscopy and Indirect Ophthalmoscopy lenses are guaranteed against scratches in the coating for three years from the invoice date.

ORDERS

Please contact your authorized Ocular Instruments distributor or contact us directly via mail, telephone, fax, email, or our web site. State complete description and product code. Please provide complete Shipping and Billing addresses with your order.

PAYMENT TERMS

Net 30 days (Credit application and approval may be required.)

SHIPMENT OF GOODS

Shipment of products is made by FedEx, air freight or USPS; F.O.B. shipping point. Bank fees, insurance and documentation charges are added when applicable. If shipment is prepaid, all costs are added to the invoice. All standard orders will be shipped within 10 days unless notified otherwise.

RETURN GOODS POLICY

Merchandise is returnable for credit only with prior authorization from Ocular Instruments. It is recommended that all shipments to Ocular Instruments be made via UPS, prepaid and insured for full value. Please clean and disinfect all products prior to returning.

REPAIR SERVICE

We offer full service repair for all of our products. We will inspect each item to determine if it is repairable. "Repairable" means that we can restore the product to a safe and effective condition in accordance with our quality system. If your product is repairable, we will provide a price quotation for your approval prior to performing the repair. In most cases, a repaired product will be restored to almost new condition. In order to expedite the repair process, please contact Customer Service for a return authorization number.

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HOW TO REACH US

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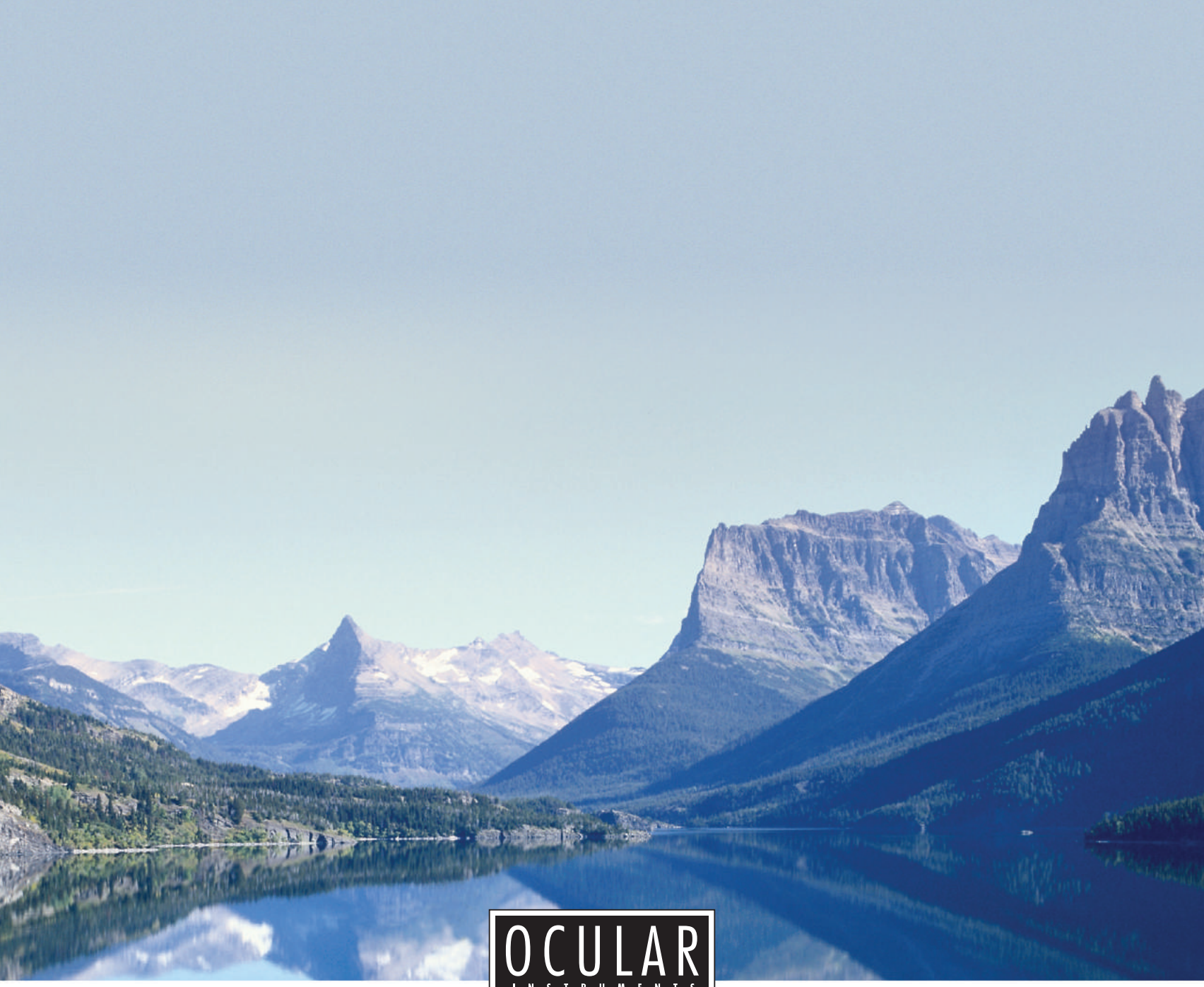

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STAY FOCUSED

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Ocular® Instruments

ISO 13485 SYSTEM CERTIFICATION SGS

SEE TABLE OF CONTENTS FOR CE CERTIFICATION INFORMATION