



# OCULAR INSTRUMENTS PRODUCT CATALOG



See beyond the surface.  **Ocular<sup>®</sup>**  
*Instruments*

# Vision



It is both our business and our guiding principle. For over 50 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 is why so many leading doctors consistently choose the products of Ocular Instruments.



Creating Solutions to Save Sight





# Latest Product Releases



**Mainster Wide Field EX**

**MaxAC® Series**

**Vitreolysis Lens Sets**

**Max360® Series**

**SecureFlex® Surgical Gonioprism**

**Hill Open Access Surgical Gonio**

**Upright 1.3X Surgical Gonioprism**

**Swan Jacob 8mm A/C Gonioprism**

**Landers Wide Field Corneal Window**

**Symons OCT Image Enhancing**

**Reichel OCT Steady Eye**

**Fundus 1.0mm**



# MAINSTER

## OCULAR MAINSTER WIDE FIELD EX



Our newest member to the Mainster line of ophthalmic contact lenses: The NEW Ocular Mainster Wide Field EX Laser Lens.

The NEW Mainster Wide Field EX Laser lens features maximum performance with reduced reflections, higher image contrast and resolution.

Excellent choice for panretinal photocoagulation in proliferative diabetic retinopathy.

The new enhanced wide field features:

- EXtra resolution
- EXtra field of view
- EXtra image contrast
- EXtra light remittance



Product Code	Static FOV	Dynamic FOV	Image Mag	Laser Spot Mag	Contact Diam.	Lens Height
OMRA-WFEX	138°	157°	64x	1.56x	15.5mm	26.5mm

# MAXAC® SERIES

## OCULAR MAXAC® CAPSULOTOMY



NEW MaxAC® Capsulotomy STEAM STERILIZABLE lens, features high quality glass optic, 13.2mm contact diameter, 1.8x magnification, and economical reprocessing. Stabilizes the patients eye and minimizes the possibility of pitting the IOL during Nd:YAG laser capsulotomy.

Compatible with all standard steam sterilization cycles...Most importantly it lowers the cost per use.

Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OAYAAC	1.8x	.56x	13.2mm	17.3MM

## OCULAR MAXAC® 20D SMALL LENS

High resolution 20 diopter lens offered at the same comfortable diameter as our traditional 28D lens. More ergonomic than the traditional 20D\* for smaller patients. Glass aspheric design features high transmittance glass for bright, clear images. STEAM AUTOCLAVABLE.

\* Ocular Instruments OI-20M clear aperture = 48mm



Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-20AS	3.0x	.33x	40°	47mm	38.5mm	39g

# VITREOLYSIS SETS

## OCULAR VITREOLYSIS LENS SETS

Custom walnut wood case sets for the Karickhoff and Peyman Wide Field Vitreous lenses. Two lens set contains the Ocular Karickhoff 21mm Vitreous and 30mm Vitreous Off-Axis lenses. Three lens set contains the Ocular Peyman Wide Field Vitreous 18mm, Karickhoff 21mm Vitreous and 25mm Vitreous Off-Axis lenses.

<u>Product Code</u>	<u>Description</u>
OJK-2S	Vitreolysis Two Lens Set
OJK-3S	Vitreolysis Three Lens Set

Lenses also sold separately, see pages 17 - 18.



Karickhoff  
21mm Vitreous



Karickhoff  
30 mm Vit. Off-Axis



Peyman WF  
18mm Vitreous



Karickhoff  
21mm Vitreous



Karickhoff  
25mm Vit. Off-Axis

# MAX360® SERIES

## OCULAR MAX360® THREE MIRROR LENS

Our Three Mirror Universal lens now features our revolutionary rotating ring. Greatly improves rotational control while eliminating the need for two handed adjustments. Single hand rotation reduces procedure time by symplifying the process and significantly reduces lens decoupling. Bidirectional ergonomic 360 degree rotational ring with 12 clock hour positions for easy reference. Three mirrors angled at 59°, 67° and 73°. Features our LaserLight® anti-reflective coating. Anterior ring can be easily removed for cleaning. Available in four models: Standard, with Flange, NMR (no methylcellulose required) and Small Fissure.



Product Code	Style	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OG3MSA-IR	Standard	.93x	1.08x	18mm	34mm	140°
OG3MSA-2-IR*	NMR	.93x	1.08x	16mm	34mm	140°
OG3MSFA-IR	with flange	.93x	1.08x	20mm	35mm	140°
OG3MSA-5F-IR*	Small Fissure w/flange	.93x	1.08x	16mm	39mm	140°

U.S. Patent #8,861,061

\* No methylcellulose required



Max360® Three Mirror Standard



Max360® Three Mirror with Flange



Max360® NMR Three Mirror



Max360® Three Mirror Small Fissure



### OCULAR KAPETANSKY GRADING GONIO LENS

Addition to our revolutionary Max360® Series line of rotating gonio lenses, exclusively from Ocular Instruments, this modified Magna View Gonio lens incorporates reference features that aid in the efficient documentation of the anterior chamber angle. 200 and 400 micron steps as well as a six color reference pallet are placed opposite the mirror to be viewed adjacent to the angle structures during the procedure. Lens rotationally indexes in 45 degree increments for accurate repeatable registration of angle observations and documentation. The lens is a convenient clinical comparator for assessing trabecular meshwork pigmentation. It is also a useful glaucoma teaching aid.



<u>Product Code</u>	<u>Gonio Mag.</u>	<u>Gonio Laser Spot Mag.</u>	<u>Contact Diam.</u>	<u>Lens Height</u>	<u>Static Gonio FOV</u>
OMVGLK-2-IR	1.3x	.77x	17mm	34mm	160°

*Designed with Frederick M. Kapetansky, M.D., Columbus, OH*

*U.S. Patent #8,861,061*



### OCULAR MAX360® MAGNA VIEW GONIO LENS

The best lens available for gonioscopy and laser trabeculoplasty, now features our revolutionary rotating ring. This 1.3x magnified gonio lens indexes in 8 positions for 45 degree positioning. Effortless single handed rotation reduces procedure time by simplifying the process and significantly reduces lens decoupling. Large bright image is one of the most recommended lenses for anterior chamber angle digital photography. Bidirectional ergonomic 360 degree rotational ring. One 62° mirror. Suitable for Argon/Diode or YAG laser treatment.



<u>Product Code</u>	<u>Gonio Mag.</u>	<u>Gonio Laser Spot Mag.</u>	<u>Contact Diam.</u>	<u>Lens Height</u>	<u>Static Gonio FOV</u>
OMVGLF-IR	1.3x	.77x	18mm	24.5mm	160°

*U.S. Patent #8,861,061*



### OCULAR LATINA 1X INDEXING PSLT LENS

Latina 1X Pattern Scanning Laser Trabeculoplasty (PSLT) lens featuring our revolutionary integrated indexing ring. Provides a rotational reference for each pattern of laser spots. The lens "clicks" into 32 positions that coincide with the embedded reference bar within the lens. Anterior ring allows trouble free one handed rotation of the lens that provides a quick and precise location at each 11.25° of rotation. Can be used with all Selective Laser Trabeculoplasty procedures. The anterior ring can be easily removed for cleaning.



<u>Product Code</u>	<u>Gonio Mag.</u>	<u>Gonio Laser Spot Mag.</u>	<u>Contact Diam.</u>	<u>Lens Height</u>	<u>Field of View</u>
OL1PLTF	1.0x	1.0x	18mm	34mm	130°

*U.S. Patent #7,766,480*

*U.S. Patent #8,861,061*



## OCULAR LATINA 5 BAR INDEXING SLT LENS

Latina SLT laser lens now features our revolutionary rotating ring. Integrated indexing ring provides rotational reference for each series of laser spots. The rotating ring locates in 10 positions that coincide with the 5 high contrast reference bars\* embedded within the lens. Allows you to position or locate the laser spot and identify where to locate the next one with precision. Single handed rotation design eliminates the need to use both hands in repositioning the lens. Anterior ring can be easily removed for cleaning. Available with the Ocular Securefit® flange for increased stability.



\*5 bars spaced 400 microns apart give visual reference for 10 laser spot locations

Product Code	Gonio Mag.	Gonio Laser Spot Mag.	Contact Diam.	Lens Height	Field of View
OL5SLT-IR	1.0x	1.0x	14.5mm	33mm	130°
OL5SLTF-IR (w/flange)	1.0x	1.0x	18mm	34mm	130°

*Designed with Mark A. Latina, MD, Reading, MA*

*U.S. Patent #7,766,480*

*U.S. Patent #8,861,061*



## OCULAR HWANG-LATINA 5.0 INDEXING SLT LENS

Hwang-Latina 5.0 SLT lens now features our revolutionary integrated indexing ring. Provides rotational reference for each series of laser spots. The ring "clicks" into 8 positions that coincide with the embedded high contrast reference bar within the lens. The reference bar provides a visual guide for placement of sub-threshold laser spots and identifies where to pinpoint the next one. Provides same easy estimation of a 45° section of the trabecular meshwork at width of 5mm, as the original Hwang-Latina 5.0 SLT. Available with the Ocular Securefit® flange for increased stability.



Product Code	Gonio Mag.	Gonio Laser Spot Mag.	Contact Diam.	Lens Height	Field of View
OHL5SLT-IR	1.0x	1.0x	14.5mm	33mm	130°
OHL5SLTF-IR (w/flange)	1.0x	1.0x	18mm	34mm	130°

*Designed with Sungjun Hwang, MD, Canandaigua, NY*

*U.S. Patent #7,766,480*

*U.S. Patent #8,861,061*

# SURGICAL GONIOPRISM

## OCULAR SECUREFLEX® SURGICAL GONIOPRISM

"The first Hands Free gonioscopy lens for anterior chamber angle surgical procedures". Exclusively from Ocular Instruments, Inc.

This Flexible optic design resists decoupling from patients' eyes during surgical procedures.

Unique self retaining feature eliminates hand-held manipulation required by other competitive lenses; creating a bi-manual surgical experience. Visualization for MIGS type procedures



Product Code	Gonio Mag	Static FOV	Contact Diam	Lens Height
OSIG	1.2x	90°	15.5mm	14.3mm

## OCULAR HILL OPEN ACCESS SURGICAL GONIO

Perfectly suited for MIGS, Goniotomy and Direct viewing surgical gonioscopy procedures, the Open Access Design gives increased clearance to the clear cornea. Particularly useful for patients with smaller eye structures where the traditional Hill may press on or even cover the incision site. Also excellent choice when the procedure calls for insertion devices requiring additional corneal access. Steam sterilizable. Available in both left hand and right hand versions.



Product Code	Gonio Mag.	Surface Area	Static FOV	Handle Length
OHSOG-LH (held in left hand)	1.20x	54mm	90°	78mm
OHSOG-RH (held in right hand)	1.20x	54mm	90°	78mm

## OCULAR UPRIGHT 1.3X SURGICAL GONIOPRISM

Perfectly suited for MIGS, Goniotomy and Direct viewing surgical gonioscopy procedures WITHOUT TILTING the microscope head! Very good image resolution and magnification. The small size and upright view allow a full 360 degree view of the anterior chamber angle by simply rotating the lens. Excellent choice for anterior chamber inspection during vitrectomy surgery or for delicate ab interno surgical glaucoma procedures. Steam sterilizable. Handle can be disassembled for cleaning and disinfection.



Product Code	Gonio Mag.	Contact Diam	Static FOV	Handle Length
OUSG-1.3X-H	1.30x	11.2mm	45°	78mm

*Patent Pending*

## OCULAR SWAN JACOB 8MM AUTOCLAVABLE GONIOPRISM

Popular Swan Jacob Gonioprism lens with an 8mm diameter contact. Suitable for laboratory animals and pediatrics. Produces a hi-resolution image of the anterior chamber angle. Designed for direct viewing gonioscopy and goniotomy. Small size makes this lens useful for pediatric postoperative gonioscopy. Anodized aluminum handle for easy manipulation. Glass optic with stainless steel and aluminum design is steam sterilizable.



Product Code	Gonio Mag	Contact Diameter	Handle Length
OSJAG8	1.50x	8mm	89mm

# ADDITIONAL PRODUCT RELEASES

## OCULAR SYMONS OCT IMAGE ENHANCING



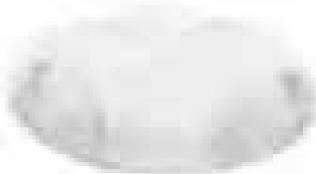
NEW Ocular Symons OCT Imaging Enhancing lens, boosts the ophthalmic images by correcting corneal abnormalities, reducing corneal reflections and increasing imaging beam transmittance. As a hand held device, the lens stabilizes the patient's eye to reduce image distorting micro movements, making it possible for a very high resolution image. High definition anti-reflection coating to minimize reflections. Compatible with other imaging techniques. Offered in two convenient flange sizes, 17mm and 20mm, for increased stability.



Product Code	Contact Diam	Lens Height
OSIE-17	17mm	15mm
OSIE-20	20mm	16.4mm

*Designed with: Robert C. Andrew Symons, MBBS, PhD, FRANZCO, East Melbourne, VIC, Australia*

## OCULAR LANDERS WIDE FIELD CORNEAL WINDOW



Effectively shows a wide field view of the posterior segment during vitreoretinal surgery and is not limited by the need to accommodate a central trunk. Allows for sealing trephine sizes 6-8.2mm in addition to irregular shaped corneal openings. May be used for more types of corneal trauma cases, including those with large, irregular wounds.



Product Code	Image Mag.	Contact Diam	Static FOV
OLTCW	2.30x	6-8.2mm	28°

*Designed with Maurice B. Landers III, MD, Chapel Hill, NC*

*Journal Reference: Arch Ophthalmol., Vol. 129(8) pp. 1067-1069, August 2011*

## OCULAR REICHEL OCT STEADYEYE



Designed to manually stabilize the eye for enhanced OCT images intra-operatively. Stabilizes the eye while eliminating small eye movements for greater OCT image resolution. Sized so that it can be used during vitrectomy procedures without interfering with infusion ports. Centers optical axis without interfering OCT view. Functional for children as well as adults. Steam sterilizable.

Product Code	Inner Diam.	Outer Diam	Handle Length
OROCTS	12.7mm	17.5mm	95mm

*Designed with Elias Reichel, MD, Boston, MA*

## OCULAR FUNDUS 1.0 LENS



NEW addition to our Research line of lenses, this lens is sized for fundus observation of Zebra fish and features optimal combination of magnification and field of view to document retinal neurons in-vivo. Also enables real time in-vivo serial examination, permitting temporal analysis of change to the retinal mosaic. Additionally the same retinal locations can be recovered and viewed at multiple time points. The handled design aids in alignment.

The most important feature is that fewer animals need to be euthanized over the course of the experiment.

Product Code	Contact Diam.	Lens Height	Handle Length
OFA-1.0	1.0mm	4.6mm	140mm

# TABLE OF CONTENTS

COLOR-CODED REFERENCE TABS >

■ Laser Lenses .....	6
■ Laser Photocoagulation Lenses.....	6
■ YAG Laser Photodisruption and SLT Lenses.....	16
■ Diagnostic Lenses .....	20
■ Indirect Diagnostic/Laser Lenses.....	27
■ Wide Angle Surgical Systems .....	39
■ Surgical Lenses.....	44
■ Scanning Laser Ophthalmoscope (SLO) Lenses .....	55
■ Tonometers .....	56
■ Research Lenses.....	58
■ Educational Aids .....	59
■ Cases .....	60
■ Lens Accessories .....	61
■ Cleaning Methods.....	64
■ Laserlight® Anti-reflective Coatings.....	66
■ Lens Materials.....	66
■ Ordering Information.....	67
■ Alphabetical Index .....	68
■ Contact Information.....	71



Products listed in this catalog are certified except Landers and Cobo Temporary Keratoprosthesis.

# SUBSPECIALTY INDEX

## CATARACT

SECTION	LENS
Photocoagulation	Hoskins Nylon Suture Layden Suture Lysis Mandelkorn Suture Lysis Ritch Nylon Suture
Surgical	Double Mirror Surgical Gonio Mori Upright Surgical Gonio Osher Gonio Post Pole Osher Surgical Kit Swan Jacob Gonio Thorpe Gonio
Tonometers	Kasaby Barraquer
YAG Laser	Abraham Capsulotomy Mandelkorn Irid/Caps Peyman G Capsulotomy

## CORNEA

SECTION	LENS
Surgical	Cobo Temp Kerato Landers WF Temp Kerato

## GENERAL EXAMINATION

SECTION	LENS
Diagnostic	1X Four Mirror Autoclavable Gonio Four Mirror Autoclavable Gonio Fundus Four Mirror Mini Gonio Gaasterland 1X Four Mirror Gaasterland Four Mirror Gonio Karickhoff Khaw 1X Direct View Gonio Khaw 4D Direct View Gonio Koeppel Magna View Gonio Single Mirror Gonio Thorpe Four Mirror Gonio Three Mirror Three Mirror Autoclavable Three Mirror HD Two Mirror Gonio
Indirect Diag/Laser	BIO: Various Powers Slit Lamp: Various Powers
Photocoagulation	1.5X Magna View Gonio Four Mirror Mini Gonio Fundus Karickhoff Magna View Gonio Magna View Two Mirror Gonio Single Mirror Gonio Thorpe Four Mirror Gonio

Three Mirror  
Three Mirror HD  
Two Mirror Gonio  
Yannuzzi Fundus

## GLAUCOMA

SECTION	LENS
Diagnostic	1X Four Mirror Autoclavable Gonio Four Mirror Autoclavable Gaasterland 1X Four Mirror Gaasterland Four Mirror Gonio Karickhoff Khaw 1X Direct View Gonio Koeppel Magna View Gonio Posner Gonioprism Sussman Gonioprism Three Mirror Three Mirror HD Gonio Thorpe Four Mirror
Photocoagulation	1.5X Magna View Gonio Abraham Iridectomy Four Mirror Mini Gonio Gaasterland 1X Four Mirror Hoskins Nylon Suture Layden Suture Lysis Magna View Gonio Magna View Two Mirror Gonio Mandelkorn Suture Lysis Ritch Nylon Suture Ritch Trabeculoplasty Single Mirror Gonio Thorpe Four Mirror Gonio Three Mirror Three Mirror HD Two Mirror Gonio Wise Iridotomy
Surgical	Ahmed 1.5X Surgical Gonio Double Mirror Surgical Gonio Hill Surgical Gonioprism Hoskins-Barkan Goniotomy Khaw Surgical Gonioprism Ritch Panoramic Surgical Gonio Swan Jacob Gonio Wells Suture Manipulator
YAG Laser	Abraham Iridectomy Hwang-Latina SLT Gonio Latina SLT Gonio Latina 5 Bar SLT Gonio Magna View Gonio Goniometric Magna View Mandelkorn Irid/Caps Pollack Irid/Gonio

## PEDIATRIC

SECTION	LENS
Diagnostic	Three Mirror 13mm Three Mirror 15mm Three Mirror 17mm HD 3 Mirror - All Magna View Gonio Four Mirror Mini Gonio Posner Gonioprism Sussman Gonioprism Koeppel Gonio 17mm
Indirect Diag/Laser	MaxField 20D Small MaxLight 28D MaxField 28D MaxField 30D MaxField 35D MaxField 40D Landers ROP Attachment Saxena Retinal Grid 428
Surgical	Ped Vitrectomy Set Flat Vitrectomy w/handle Peyman Ped Wide Field Khaw Surgical Gonio Swan Jacob Gonio Hoskins Barkan Gonio -1,-2
SLO	Staurenghi 13mm
Photocoagulation	Reichel-Mainster 1X-P ProRetina 120 Three Mirror 13mm Three Mirror 15mm Three Mirror 17mm HD 3 Mirror - All Magna View Gonio Four Mirror Mini Gonio

## REFRACTIVE

SECTION	LENS
Tonometers	Barraquer

## RESEARCH

SECTION	LENS
	Kaufman Gonio Mouse Fundus Mouse Gonio Rat Fundus Staurenghi WF SLO 13mm

## RETINAL EXAM & LASER

SECTION	LENS
Diagnostic	Fundus Karickhoff Three Mirror Three Mirror HD

Indirect Diag/Laser	BIO: Various Powers Landers ROP Lens Attachment Saxena Retinal Grid 428 Saxena Retinal Grid 520 Slit Lamp: Various Powers
Photocoagulation	Fundus Karickhoff Mainster High Mag Mainster PRP 165 Mainster (Std) Focal/Grid Mainster Wide Field PDT PDT 1.6X ProRetina 120 Reichel-Mainster 1X Reichel-Mainster 2X Three Mirror Three Mirror HD Yannuzzi Fundus
SLO	Lee-Mainster SLO Staurenghi Wide Field

## VITREO-RETINAL SURGERY

SECTION	LENS
Indirect Laser	20D, 28D Autoclavable Autoclavable Lens Stand
Surgical	Disposable Vitrectomy Hexagonal Handle Vitr Landers Biconcave Vitr Landers Vitr Ring System Landers WF Temp Kerato Machemer Magnifying Vitr Pediatric Vitrectomy Peyman-Green Vitr Peyman Pediatric Wide Field Peyman Wide Field Vitr Reichel Viscous Contact System Vitrectomy Lens Holder Vitrectomy Rings
Surgical Viewing Systems	Inverter Vitrectomy System Landers Equatorial Landers SVS Landers Wide Field Peyman-Wessels-Landers 132D Woldoff High Mag
Tonometers	Barraquer
YAG Laser	Karickhoff 21mm Vitreous Karickhoff Off-Axis Vitreous Peyman 12.5, 18, 25mm

# LASER PHOTOCOAGULATION LENSES

RETINA LENS COMPARISON CHART											
LENS		PRORETINA 120 PB <sup>(3)</sup>	REICHEL-MAINSTER 2X	PRP 165	PDT 1.6X	WIDE FIELD EX	WIDE FIELD	REICHEL-MAINSTER 1X	(STANDARD) FOCAL/GRID <sup>(4)</sup>	PEDIATRIC REICHEL-MAINSTER 1X	HIGH MAG
IMAGE MAGNIFICATION		.50X	.50X	.51X	.63X	.64X	.68X	.95X	.96X	1.08X	1.25X
LASER SPOT MAGNIFICATION FACTOR <sup>(2)</sup>		2.00X	2.00X	1.96X	1.60X	1.56X	1.50X	1.05X	1.05X	.93X	.80X
STATIC FIELD OF VIEW		120°	117°	165°	120°	138°	118°	102°	90°	98°	75°
DYNAMIC FIELD OF VIEW		136°	142°	180°	133°	157°	127°	133°	121°	126°	88°
RETINAL DISORDER <sup>(1)</sup>	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	■	■ ■ ■ ■	■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	-	■ ■ ■ ■
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.

ALL LASER LENSES USE CLEANING METHOD 1

### 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 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	28mm	165°	180°
OMRA-PRP-165-2*	.51x	1.96x	16.5mm	27.5mm	165°	180°

### 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. Now 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-WF	.68x	1.50x	15.5mm	28mm	118°	127°
OMRA-WF-2*	.68x	1.50x	12mm	26.5mm	118°	127°

Journal references: *AJO, Vol. 117, pp 442-446, April 1994*  
*American Academy of Ophthalmology, Vitreoretinal Update, Subspecialty Day 1999*

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

**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. Now with our NEW Laserlight<sup>®</sup> 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-S	.96x	1.05x	15.5mm	32.5mm	90°	121°
OMRA-S-2*	.96x	1.05x	12mm	31mm	90°	121°

*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 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°

**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 photodynamic therapy and for treating choroidal neovascularization, diabetic retinopathy and retinal vascular occlusion. Now with our NEW Laserlight<sup>®</sup> 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°

ALL LASER LENSES USE CLEANING METHOD 1 \* No methylcellulose required



### 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. The shape and features of this lens compares to the traditional Rodenstock Pan Fundus Lens. Now 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°



### 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. Now 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
OPDT	.63x	1.60x	15.5mm	32.5mm	120°	133°
OPDT-2*	.63x	1.60x	12mm	31mm	120°	133°



### 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*	.97x	1.03x	15.5mm	16.5mm	35°



### 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

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

**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
OAlA	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.



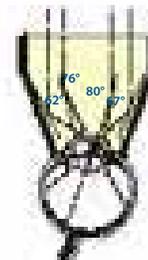
Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OWISA	2.60x	.38x	15.5mm	15mm

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

**OCULAR 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	30mm	140°
OJKFA (w/flange)	.93x	1.08x	20mm	32.5mm	140°

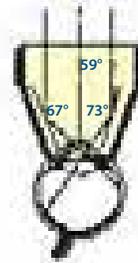
*Journal references:* Optometry Today Supplement, pp. 23-24, September 1992  
Optometric Management, Vol. 35, No. 6, June 2000

ALL LASER LENSES USE CLEANING METHOD 1 \* No methylcellulose required



### 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. Featuring our LaserLight® anti-reflective coating. 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	Short	.93x	1.08x	18mm	24mm	140°
OG3MSA-2*	NMR Short	.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*  
*The Journal of Ophthalmic Photography, Vol. 26, No. 1, pp. 13-19, Spring 2004*

### 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 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.	Gonio Laser Spot Mag	Contact Diam.	Lens Height	Static Gonio FOV
OMVGL	1.3x	.77x	15mm	23.5mm	160°
OMVGLF (w/flange)	1.3x	.77x	18mm	24.5mm	160°

## OCULAR MAGNA VIEW TWO MIRROR GONIO

In the same spirit as our popular single mirror design, the Two Mirror Magna View gives unsurpassed image resolution and magnification of the anterior chamber angle. The 1.45x gonio magnification provides fine detailed viewing of the anterior chamber angle structures. The second mirror reduces the amount of lens rotation needed to view the total 360° of the anterior chamber. Excellent lens for detailed high resolution digital and traditional photography. Laserlight® HD anti-reflective coating for maximum light transmission and image brightness. Available with the Ocular Securefit® Flange.



Product Code	Gonio Mag.	Gonio Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OMV2G	1.45x	.69x	15mm	26mm	160°
OMV2GF (w/flange)	1.45x	.69x	18mm	27mm	160°

## OCULAR 1.5X MAGNA VIEW GONIO

This lens features an innovative all glass prism design that eliminates mirror coatings to give the brightest image possible. Only a prism utilizing a total internal reflection (TIR) mirror can deliver 100% of available light back to the observer. The Ocular 1.5X Magna View is based on this concept to provide the brightest image possible. This, coupled with the use of low dispersion glass, computer enhanced optical design, and our advanced Laserlight® HD anti-reflective coating, creates an exceptional gonio lens for diagnosis, treatments and digital documentation of the anterior chamber angle. Available with the Ocular Securefit® Flange.



Product Code	Gonio Mag.	Gonio Laser Spot Mag	Contact Diam.	Lens Height	Static Gonio FOV
OMVGL-1.5X	1.5x	.67x	14.5mm	25mm	120°
OMVGLF-1.5X (w/flange)	1.5x	.67x	15.5mm	25mm	120°

*Patent Pending*

ALL LASER LENSES USE CLEANING METHOD 1 \* No methylcellulose required



### OCULAR GONIOMETRIC MV200

Magna View Gonio lens featuring a staircase shaped reference indicator that provides convenient reference to anterior chamber objects for longitudinal and comparative studies. Seven (7) stair steps imaged at approximately 200um in height. Excellent lens for digital photography and video. Available with the Ocular Securefit® flange.



Product Code	Gonio Mag.	Gonio Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OMVG200	1.3x	.77x	15mm	23.5mm	160°
OMVG200-2*	1.3x	.77x	15mm	23.5mm	160°
OMVGF200 (w/flange)	1.3x	.77x	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. Available with the Ocular Securefit® flange.



Product Code	Gonio Mag.	Gonio 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°
OSMGFA (w/flange)	.80x	1.25x	17mm	21.5mm	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. Available with the Ocular Securefit® flange.



Product Code	Gonio Mag.	Gonio Laser Spot Mag.	Contact Diam.	Lens Height	Static Gonio FOV
O2MA	.80x	1.25x	15mm	21mm	170°
O2MA-2*	.80x	1.25x	15mm	20mm	170°
O2MFA (w/flange)	.80x	1.25x	17mm	21.5mm	170°

*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 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.	Gonio 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.	Gonio 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.	Gonio 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*

ALL LASER LENSES USE CLEANING METHOD 1 \* No methylcellulose required

### 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 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.

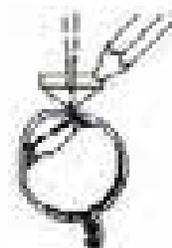


Product Code	Image Mag	Laser Spot Mag	Contact Diam	Handle Length
OHSA	1.20x	.83x	3mm	79mm

*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 LAYDEN SUTURE LYSIS LENS

Designed for laser suture lysis after trabeculectomy or cataract surgery. The lens compresses the overlying conjunctival blood vessels and provides a clear view of the sutures. 1.6mm diameter tip simplifies locating and lasering sutures in patients with dark or highly pigmented sclera.



Product Code	Image Mag	Laser Spot Mag	Contact Diam	Handle Length
OLSA	1.00x	1.00x	1.6mm	79mm

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 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*

ALL LASER LENSES USE CLEANING METHOD 1



### 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. Also useful for peripheral iridoplasty procedures.



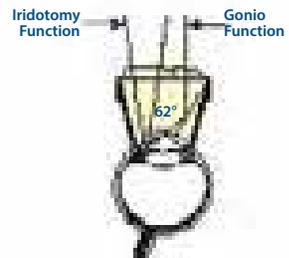
Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OMIC	1.2x	.83x	15.5mm	16.5mm

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



### OCULAR 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.

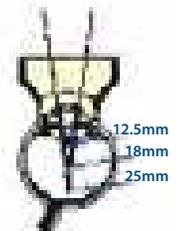


Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OPIG	1.5x	.65x	15mm	21mm



### 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.



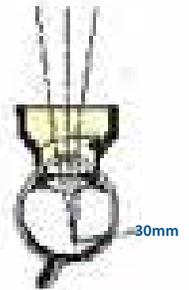
Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OPY-12.5	1.40x	.71x	15.5mm	16.5mm
OPY-18	1.41x	.71x	15.5mm	16.5mm
OPY-25	1.36x	.74x	16mm	14.7mm

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



**OCULAR KARICKHOFF 30MM OFF-AXIS VITREOUS LENS**

Used to vaporize floaters that are outside the central visual axis and are deep in the vitreous. Assists in vaporizing floaters that are behind the corneal knee in post-LASIK patients. This lens allows the beam to pass more through the central excavation (an optical surface) of the LASIK procedure for superior vaporization. Excellent for looking for additional floaters to treat. Instead of having the patient look in all directions, the surgeon simply slowly rotates the lens so that all directions are seen. Wider field than the Karickhoff Off-Axis 25mm lens (OJKPY-25).

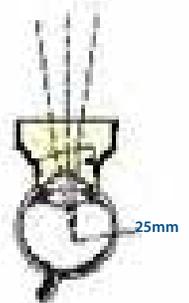


Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OJKPY-30	1.25x	.80x	15.5mm	16.5mm



**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.



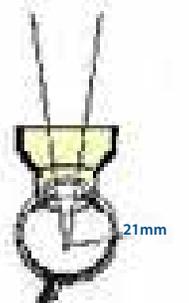
Product Code	Image Mag.	Laser Spot Mag.	Contact Diam.	Lens Height
OJKPY-25	1.36x	.74x	15.5mm	16.5mm

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



**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*

ALL LASER LENSES USE CLEANING METHOD 1



### OCULAR LATINA 5 BAR SLT LENS

Latina SLT laser lens featuring five high contrast reference bars embedded into the contact portion of the lens are imaged over the trabecular meshwork and provide a reference to placement of sub-threshold laser spot. Available with the Ocular Securefit® flange for increased stability.



Product Code	Gonio Mag.	Gonio Laser Spot Mag.	Contact Diam.	Lens Height	Field of View
OL5SLT	1.0x	1.0x	14.5mm	24mm	130°
OL5SLTF (w/flange)	1.0x	1.0x	18mm	25mm	130°

U.S. Patent #7,766,480



### OCULAR HWANG-LATINA 5.0 SLT LENS

High contrast reference bar embedded into the contact portion of the SLT lens and provides easy estimation of a 45° section of the trabecular meshwork. Imaged at width of 5mm, the reference bar can also be used to estimate the size of the anterior chamber angle structures. Available with the Ocular Securefit® flange for increased stability.



U.S. Patent #7,766,480

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



### 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.	Gonio 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°

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

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

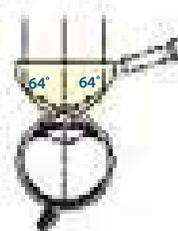


### OCULAR POSNER DIAGNOSTIC AND SURGICAL GONIOPRISM

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	79mm	80°
OPDSG-2*	Hexagonal	.80x	9mm	13mm	72mm	80°
OPDSG-3*	Ergonomic	.80x	9mm	13mm	93mm	80°



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

### 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°



*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. Also available with our high performance anti-reflective coating. See page 14 for more details.



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



\* No methylcellulose required

# DIAGNOSTIC LENSES

## OCULAR KHAW 4D DIRECT VIEW GONIO

Traditional and 1X magnification versions available. The Khaw 4D Direct View Gonio Lenses combine the most favorable features of traditional gonioprisms 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°
OK4DG-1X*	1.05x	10mm	23mm	28.5mm	150°

## OCULAR GAASTERLAND FOUR MIRROR GONIO

Traditional and 1X magnification versions available. New Laserlight<sup>®</sup> HD anti-reflective coating on anterior surface for maximum image brightness and contrast. See Coatings and Materials (page 66) for more details. 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. Lens is easily detached from handle for cleaning. Outstanding for laser and diagnostic applications – 15mm and 17mm flange adapters recommended for laser procedures. Compatible with visible and near infrared lasers. Methylcellulose not required.



Product Code	Gonio Mag.	Gonio Laser Spot Mag	Contact Diam.	Lens Height	Ring Diam.	Static FOV
OG4MG*	.61x	1.64x	8.5mm	22mm	24.5mm	90°+
OG4MG-15*	.61x	1.64x	15mm	24.5mm	24.5mm	90°+
(OG4MG lens w/OACF4-15 flange)						
OG4MG-17	.61x	1.64x	17mm	25.5mm	24.5mm	90°+
(OG4MG lens w/OACF4-17 flange; methylcellulose recommended)						
OG4MG-LR*	.61x	1.64x	8.5mm	28mm	31.5mm	90°+
OG4MG-LR-15*	.61x	1.64x	15mm	30mm	31.5mm	90°+
(OG4MG-LR lens w/OACF4-15 flange)						
OG4MG-LR-17	.61x	1.64x	17mm	31mm	31.5mm	90°+
(OG4MG-LR lens w/OACF4-17 flange; methylcellulose recommended)						
OG4MG-H*	.61x	1.64x	8.5mm	18mm	n/a	90°+
OG4MG-1X*	1.0x	1.0x	8.5mm	22mm	24.5mm	90°+
OG4MG-1X-15*	1.0x	1.0x	15mm	24.5mm	24.5mm	90°+
(OG4MG-1X lens w/OACF4-15 flange)						
OG4MG-1X-17	1.0x	1.0x	17mm	25.5mm	24.5mm	90°+
(OG4MG-1X lens w/OACF4-17 flange; methylcellulose recommended)						
OG4MG-1X-LR*	1.0x	1.0x	8.5mm	28mm	31.5mm	90°+
OG4MG-1X-LR-15*	1.0x	1.0x	15mm	30mm	31.5mm	90°+
OG4MG-1X-LR lens w/OACF4-15 flange)						
OG4MG-1X-LR-17	1.0x	1.0x	17mm	31mm	31.5mm	90°+
(OG4MG-1X-LR lens w/OACF4-17 flange; methylcellulose recommended)						
OG4MG-1X-H*	1.0x	1.0x	8.5mm	18mm	n/a	90°+

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

DIAGNOSTIC LENSES USE CLEANING METHOD 1 UNLESS OTHERWISE NOTED

\* No methylcellulose required

### OCULAR MAXFIELD® AC FOUR MIRROR GONIO

Traditional and 1X magnification versions available. 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. Available with small or large holding ring. 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. Purchase with or separately a 15mm or 17mm lens flange to eliminate the need to purchase additional lenses with dedicated flanges. Flange cover is easily removed from the lens for cleaning and sterilization.



Product Code	Gonio Mag.	Contact Diam.	Lens Height	Ring Diam.	Static FOV
O4MAC*	.61x	8.5mm	22mm	24.5mm	90°+
O4MAC-15*	.61x	15mm	24.5mm	24.5mm	90°+ (O4MAC lens w/OACF4-15 flange)
O4MAC-17	.61x	17mm	25.5mm	24.5mm	90°+ (O4MAC lens w/OACF4-17 flange; methylcellulose recommended)
O4MAC-LR*	.61x	8.5mm	28mm	31.5mm	90°+
O4MAC-LR-15*	.61x	15mm	30mm	31.5mm	90°+ (O4MAC-LR lens w/OACF4-15 flange)
O4MAC-LR-17	.61x	17mm	31mm	31.5mm	90°+ (O4MAC-LR lens w/OACF4-17 flange; methylcellulose recommended)
O4MAC-H*	.61x	8.5mm	18mm	n/a	90°+
O4MAC-1X*	1.0x	8.5mm	22mm	24.5mm	90°+
O4MAC-1X-15*	1.0x	15mm	24.5mm	24.5mm	90°+ (O4MAC-1X lens w/OACF4-15 flange)
O4MAC-1X-17	1.0x	17mm	25.5mm	24.5mm	90°+ (O4MAC-1X lens w/OACF4-17 flange; methylcellulose recommended)
O4MAC-1X-LR*	1.0x	8.5mm	28mm	31.5mm	90°+
O4MAC-1X-LR-15*	1.0x	15mm	30mm	31.5mm	90°+ (O4MAC-1X-LR lens w/OACF4-15 flange)
O4MAC-1X-LR-17	1.0x	17mm	31mm	31.5mm	90°+ (O4MAC-1X-LR lens w/OACF4-17 flange; methylcellulose recommended)
O4MAC-1X-H*	1.0x	8.5mm	18mm	n/a	90°+

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. Also available with our high performance, anti-reflective coating. See page 14 for more details.



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°

O4MAC\* LENSES USE CLEANING METHOD 3



# DIAGNOSTIC LENSES

## 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. Also available with our high performance, anti-reflective coating.



See page 8 for more details.

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	Short	.93x	18mm	24mm	140°
OG3MS-2*	NMR Short	.93x	16mm	23mm	140°
OG3M-13*	NMR Small Fissure	.93x	13mm	28mm	140°

Journal reference: *The Journal of Ophthalmic Photography, Vol. 26, No. 1, pp. 13-19, Spring 2004*

## 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 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. Also available with our high performance, anti-reflective coating. See page 9 for more details.



Product Code	Image Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OJK	.93x	18mm	29mm	140°
OJKF (w/flange)	.93x	20mm	30mm	140°

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

### 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. See Coatings and Materials (page 66) for more details. 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 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*	.60x	10mm	25mm	150°
OG3MAC-15*	.60x	15mm	26.5mm	150°
(OG3MAC-10 Lens w/OACF-15 flange)				
OG3MAC-17	.60x	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

### 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. Also available with our high performance, anti-reflective coating. See page 9 for more details.



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°





## OCULAR MAGNA VIEW GONIO

The Ocular Magna View Gonio Lens is an outstanding choice for gonioscopy and digital photography of the anterior chamber angle. Four different lens styles are available to suit your needs including the Single Mirror, Two Mirror, higher magnification 1.5X, and the new Goniometric. All four styles are also available with the Ocular Securefit® flange. See page 12 for more details.



## 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. Available with the Ocular Securefit® flange. Also available with our high performance, anti-reflective coating. See page 13 for more details.



Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
OSMG	.80x	15mm	19.5mm	170°
OSMG-2*	.80x	15mm	19.5mm	170°
OSMGF (w/flange)	.80x	17mm	20.5mm	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. Available with the Ocular Securefit® flange. Also available with our high performance, anti-reflective coating. See page 13 for more details.



Product Code	Gonio Mag.	Contact Diam.	Lens Height	Static Gonio FOV
O2M	.80x	15mm	19.5mm	170°
O2M-2*	.80x	15mm	19.5mm	170°
O2MF (w/flange)	.80x	17mm	20.5mm	170°

## OCULAR KOEPE 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	1.53x	18mm	160°
OKS	Small	1.57x	17mm	160°





Laserlight® **HD** coating now 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) and Ocular MaxField® 20D Small (OI-20MS).

# INDIRECT DIAGNOSTIC/LASER LENSES

## 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-18 MaxLight® 18D	BIO	3.40x	.29x	44°	NA	55.0	48.0	39	CR-39
OI-18M HD MaxField® 18D	BIO	3.40x	.29x	44°	NA	55.0	48.0	58	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-20MS HD MaxField® 20D Small	BIO	2.97x	.34x	40°	NA	47.0	38.0	39	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-25M HD MaxField® 25D	BIO	2.40x	.42x	63°	NA	33.0	48.0	59	GLASS
OI-28 MaxLight® 28D	BIO	2.13x	.47x	58°	NA	29.0	38.0	22	CR-39
OI-28A MaxAC® Autoclavable 28D	BIO/O.R.	2.15x	.47x	59°	NA	28.0	38.0	36	GLASS
OI-28M HD MaxField® 28D	BIO	2.11x	.47x	58°	NA	27.0	38.0	39	GLASS
OI-30M HD MaxField® 30D	BIO	1.97x	.51x	63°	NA	26.0	38.0	38	GLASS
OI-35M HD MaxField® 35D	BIO	1.71x	.58x	74°	NA	17.0	34.0	32	GLASS
OI-40M HD MaxField® 40D	BIO	1.49x	.67x	82°	NA	14.0	34.0	32	GLASS
OI-54M HD MaxField® 54D	SLIT LAMP	1.10x	.90x	86°	137°	10.0	29.0	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°	10.0	29.0	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 78D	SLIT LAMP	.93x	1.07x	84°	139°	8.0	29.0	17	CR-39
OI-HM-78M HD MaxField® High Mag 78D	SLIT LAMP	.98x	1.02x	88°	154°	10.0	29.0	32	GLASS
OI-78M Osher MaxField® 78D HD	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	19.0	6	CR-39
OI-STD-M HD MaxField® Standard 90	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.0	9	GLASS
OI-STD-LR MaxLight® Std 90 w/Lg Ring	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.0	15	CR-39
OI-STD-M-LR HD MaxField® Std 90 w/Lg Ring	SLIT LAMP	.75x	1.34x	94°	153°	5.0	19.0	18	GLASS
OI-100M HD MaxField® 100D	SLIT LAMP	.60x	1.67x	110°	146°	4.0	21.0	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	9	GLASS

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

## 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® 18 DIOPTER

High resolution image with 15% more magnification than a 20D for greater detail. 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-18	3.40x	.29x	44°	55mm	48mm	39g



#### 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

Bigger aperture and field of view than a 20D. 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.



## OCULAR MAXLIGHT® 28 DIOPTR

Excellent lens for use during pediatric examinations. 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	38mm	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 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® 18D

High resolution image with 15% more magnification than a 20D for greater detail. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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-18M	3.40x	.29x	44°	55mm	48mm	58g

### 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 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



### OCULAR MAXFIELD® 20D SMALL LENS

High resolution 20 diopter lens offered at the same comfortable diameter as our traditional 28D lens. More ergonomic than the traditional 20D\* for smaller patients, the new OI-20MS glass aspheric lens features our NEW Laserlight® HD anti-reflective coating and is ideal for digital imaging and laser transmission. See Coatings and Materials (page 66) for more details.

\* Ocular Instruments OI-20M clear aperture = 48mm

Product Code	Image Mag.	Laser Spot Mag.	Static FOV	Working Distance	Clear Aperture	Lens Weight
OI-20MS	2.97x	.34x	40°	47mm	38mm	39g



### OCULAR MAXFIELD® 22D

Bigger aperture and field of view than a 20D. Features a computer optimized aspheric design for maximum resolution and field of view. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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® 25D

Ideal for examination of ROP patients. Excellent lens for use during pediatric examinations. More field of view than a 20D. Features a computer optimized aspheric design for maximum resolution and field of view. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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-25M	2.40x	.42x	63°	33mm	48mm	59g



### OCULAR MAXFIELD® 28D

Excellent lens for use during pediatric examinations. 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 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	38mm	39g

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



**OCULAR MAXFIELD® 30D**

10% more field than a 28D. Features a computer optimized aspheric design for maximum resolution and field of view. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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-30M	1.97x	.51x	63°	26mm	38mm	38g



**OCULAR MAXFIELD® 35D**

Works well through small pupils. Features a computer optimized aspheric design for maximum resolution and field of view. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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-35M	1.71x	.58x	74°	17mm	34mm	32g



**OCULAR MAXFIELD® 40D**

Quick scanning lens that works well through small pupils. For use during pediatric examinations. Features a computer optimized aspheric design for maximum resolution and field of view. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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-40M	1.49x	.67x	82°	14mm	34mm	32g



**OCULAR LANDERS ROP LENS ATTACHMENT**

Engraved bezel and crosshairs allow clock hour estimation in neo-vascularization when viewing ROP. Estimate the size of inflammatory/non-inflammatory retinal lesions. Grid spacing aids in estimating the size of ocular tumors. Bezel is conveniently marked at hour and half hour locations. Designed to fit anterior side of Ocular 28D Indirect Lenses\*. The Ocular 28D Indirect Lenses are sold separately.

Product Code
OI-LROP

\*Lens design with diamond knurl pattern only



**OCULAR SAXENA RETINAL GRID 428**

Monofilament line at 4.0mm spacing provides reference to the size of the optic disc. Estimate the size of inflammatory/non-inflammatory retinal lesions. Grid spacing aids in estimating the size of ocular tumors. Easily estimates the amount of disk edema. Ideal for ROP. Designed to fit anterior side of Ocular 28D Indirect Lenses.\* The Ocular 28D Indirect Lenses are sold separately.

Product Code  
OI-SRG428

*\*Lens design with diamond knurl pattern only*



**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 aids 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 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	38mm	36g

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® (AUTOCLAVABLE) LENS STAND**

The lens stand minimizes water spots from the autoclave. Use during sterilization to hold the lens 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



**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	29mm	17g

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



### OCULAR MAXLIGHT® 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.

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	19mm	6g
OI-STD-LR	.75x	1.34x	94°	153°	5mm	19mm	15g

### MAXFIELD® GLASS ASPHERIC LENSES

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



### OCULAR MAXFIELD® 54D

High magnification and resolution for examining macula and disc. Excellent for high resolution digital imaging. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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	29mm	25g



### OCULAR MAXFIELD® 60D

High resolution lens produces one to one image of fundus. Excellent for high resolution digital imaging. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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°	10mm	29mm	32g

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



**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 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. Unique design minimizes reflections. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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



**OCULAR MAXFIELD® HIGH MAG 78D**

Traditional 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 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	29mm	32g

INDIRECT LENSES USE CLEANING METHOD 2



### OCULAR OSHER MAXFIELD® 78D

Formerly called the Osher Panfundus Lens. 78D high refractive index glass lens gives wider field than a traditional 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 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. We call it the Wide Field 90D because it has more static field of view. Excellent for high resolution digital imaging. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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 MAXFIELD® STANDARD 90

The most popular power for non-contact fundus examination. Large and small holding ring available. Also available with red, blue, green, gold, purple, or traditional black holding ring. Now 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	19mm	9g
OI-STDM-LR	.75x	1.34x	94°	153°	5mm	19mm	18g

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



**OCULAR MAXFIELD® 100D**

General screening lens. Works well through small pupils. Available with red, blue, green, gold, purple, or traditional black holding ring. Now 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	21mm	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 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 small pupils. Retains an 85° field of view through a 2mm pupil. Now 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	9g

INDIRECT LENSES USE CLEANING METHOD 2



## OCULAR INVERTER VITRECTOMY



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. (See sets on Page 42)

### Product Code

- OIVS2L IVS for Leica (Wild) Microscopes
- OIVS2Z IVS for Zeiss and Zeiss Type Microscopes

### INCLUDES:

#### Product Code

- OIVS2-K Rubber Adjustment Knob (steam sterilizable)
- OIVS-SD Screw Driver, slotted, 3/16"
- OIVS-C Carrying Case (shown in Cases, p. 60)

## 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





**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

**ASK ABOUT OUR DISCOUNTS ON MULTIPLE LENS SETS!**



**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

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

Buy in sets  
**AND SAVE!**

**IN ADDITION, IVS SETS INCLUDE:**

PRODUCT CODE	WF	EQ II	HM	WFNA	EQNA	HMNA	Handle	Ring*
OIVS2L-WE	1	1					2	1
OIVS2L-EH		1	1				1	1
OIVS2L-WH	1		1				1	1
OIVS2L-WEH	1	1	1				2	1
OIVS2L-WENA				1	1		2	1
OIVS2L-EHNA					1	1	1	1
OIVS2L-WHNA				1		1	1	1
OIVS2L-WEHNA				1	1	1	2	1
<hr/>								
OIVS2Z-WE	1	1					2	1
OIVS2Z-EH		1	1				1	1
OIVS2Z-WH	1		1				1	1
OIVS2Z-WEH	1	1	1				2	1
OIVS2Z-WENA				1	1		2	1
OIVS2Z-EHNA					1	1	1	1
OIVS2Z-WHNA				1		1	1	1
OIVS2Z-WEHNA				1	1	1	2	1

\*OLV-1-4P See page 47 All products in this section are also available separately.



**Product Code**  
OSVS

## OCULAR LANDERS WIDE ANGLE SURGICAL VIEWING SYSTEM

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	Description
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.



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

## LANDERS HIGH REFRACTIVE INDEX (HRI) VITRECTOMY LENS SET

Made from high refractive index glass, the HRI lenses offer a wider field of view, with 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.



### 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.
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.
4. **OLV-6-HRI** 20° Prism Lens  
Provides visualization of the posterior peripheral fundus and posterior peripheral vitreous in phakic, aphakic and pseudophakic eyes.
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.
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.
8. **OLV-FCP** Landers Lens Forceps  
Surgical forceps simplify placement and removal of vitrectomy lenses used with suture down rings.



OLV-2-HRI



OLV-3-HRI



OLV-4-HRI



OLV-6-HRI



OLV-7-HRI

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°

DOT ON ANTERIOR SURFACE IDENTIFIES HRI LENS

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	1.02x	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°

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:



OLV-2



OLV-6



OLV-3



OLV-7



OLV-4



OLV-9



OLV-5

**PRODUCTS SOLD IN SETS ARE ALSO AVAILABLE SEPARATELY.**

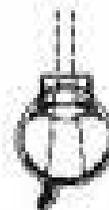
1. **OLV-2** Landers Biconcave  
83D biconcave lens facilitates viewing the fundus in an air-filled vitreous cavity in phakic and pseudophakic eyes.
2. **OLV-3** Machemer Magnifying  
For detailed examination and minute surgical manipulation of retinal membranes in phakic and pseudophakic eyes.
3. **OLV-4** 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  
Surgical forceps simplify placement and removal of vitrectomy lenses used with suture down rings.

PRODUCTS ON THIS PAGE USE CLEANING METHOD 3

## 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.



## 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.

### ODVB – BICONCAVE

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

### 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.

### ODVM – MAGNIFYING

For detailed examination and minute surgical manipulation of retinal membranes in phakic and pseudophakic eyes.

### 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.

### ODV3P – 30° PRISM

Provides visualization of the posterior peripheral fundus and vitreous beyond the equator with minimal distortion in phakic, aphakic and pseudophakic eyes.



## OCULAR VITRECTOMY LENS RINGS

### OFV-4 FOXMAN VITRECTOMY

Designed to be stable on the eye by straddling the inserted trocar thus not requiring sutures. Struts are spaced for a 2.4mm wide trocar and have markings at 3mm and 4mm from the limbus.

### 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*

## 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.*

*Journal reference: Ophthalmic Surgery Lasers & Imaging, Vol. 40, No. 6, pp. 611-612, November / December 2009.*

## OCULAR REICHEL VITRECTOMY LENS HOLDER

The Reichel Vitrectomy Lens Holder allows the use of vitrectomy lenses with the Ocular Reichel Viscous Contact System (ORVCS, see page 39). Vitrectomy lenses are conveniently transformed into a handheld lens by using the Vitrectomy Lens Holder. Designed for use with the following lenses: OLV-2-HRI, OLV-3-HRI, OLV-4-HRI, OLV-3, OLV-4, OLV-5, ODVE, and ODVW. The ORVCS is sold separately.

### Product Code

ORVLH

*Journal reference: Ophthalmic Surgery Lasers & Imaging, Vol. 40, No. 6, pp. 611-612, November / December 2009.*

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-F Pediatric Flat

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



#### OPV-P Pediatric Prism

Allows peripheral viewing beyond the equator with minimal distortion.



#### OPV-R Pediatric Vitrectomy Lens Ring

Stainless steel ring with two suture down struts.

#### OPV-FCP Pediatric Lens Forceps

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



PRODUCTS ON THIS PAGE 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 1.12x - air filled	11.8mm	48°

## 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. The OPFVI has a smaller contact diameter for pediatric patients. 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°
OPFVI	1.02x - fluid filled	7mm	36°



LENSES ON THIS PAGE USE CLEANING METHOD 3

## 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.

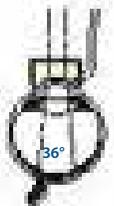
Product Code	Image Mag.	Contact Diameter	Static FOV
OMVI	1.47x – fluid filled	10mm	30°



## 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°



## 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	12mm	48°
	1.12x – air filled	12mm	



*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
OPPWW	.50x	7mm	94°

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



LENSES ON THIS PAGE USE CLEANING METHOD 3



### OCULAR DOUBLE MIRROR SURGICAL GONIO LENS

The Ocular Double Mirror Surgical Gonio Lens is designed for easy manipulation during goniotomy and direct viewing gonioscopy procedures, including goniosynechialysis. The two mirror design redirects the oblique gonio image to the coaxial surgical position, allowing the surgeon easy 360° viewing of the anterior chamber. The central view is used to observe instruments passing across anterior chamber. 1.20x image magnification for increased detail of anterior chamber structures. The lens combines the most favorable features of traditional gonioprisms while providing a properly orientated view of the angle. Large limbal aperture to simplify surgery by improving access to clear cornea. Lens is Steam Sterilizable. Works best with coaxial light source.



Product Code	Gonio Mag.	Contact Diameter	Lens Height	Static FOV
ODMSG	1.20x	9mm	49mm	90°

*\*US Patent #7,419,262 B2*



### OCULAR MORI UPRIGHT SURGICAL GONIO LENS

The Mori Upright Surgical Gonio Lens is designed for glaucoma procedures, including goniosynechialysis. The two mirror design redirects the oblique gonio image to the coaxial surgical position, allowing the surgeon easy 360° viewing of the anterior chamber. The central view is used to observe instruments passing across anterior chamber. The lens combines the most favorable features of traditional gonioprisms while providing a properly orientated view of the angle. Large limbal aperture to simplify surgery by improving access to clear cornea.



Product Code	Gonio Mag	Contact Diameter	Lens Height	Static FOV
OMUSG	.80x	11.5mm	21.5mm	110°

*Journal Reference: AJO, Vol. 143, No. 1, pp. 154-155, January 2007*



### OCULAR AHMED 1.5X SURGICAL GONIO LENS

All glass design features a magnified view of the anterior chamber angle. A unique optical design corrects for corneal astigmatism for the highest detailed image. Large viewing mirror provides a very wide field of view. Ample access to the cornea. Steam sterilizable. Also available with a handle.



Product Code	Image Mag.	Gonio FOV	Contact Diameter	Handle Length
OASG	1.50x	90°	10mm	NA
OASG-H (w/handle)	1.50x	90°	10mm	72mm

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

## OCULAR RITCH PANORAMIC SURGICAL GONIOPRISM

The Ritch Panoramic Gonioprism is a glass lens designed for easy manipulation during goniotomy and direct viewing gonioscopy. The unique design leaves half the cornea closest to the surgeon exposed for use of instruments, incisions, and corneal retraction sutures. The lens provides 160° direct view of the angle. 180° can be seen with minimal rotation of the lens. The lens is steam sterilizable.

Product Code	Gonio Mag	Contact Diameter	Handle Length	Static FOV
ORPSG	.73x	10.8mm	77.5mm	160°



## 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	9.5mm	77.5mm



## 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	88.5mm



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

### 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 dimensions 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 WELLS SUTURE MANIPULATOR LENS

Lens was designed with a manipulating pin to adjust sclera flap sutures via the conjunctiva, after trabeculectomy procedures. The 1.29x magnification allows clear visualization of sutures and manipulating pin. The pin tip is smooth on all surfaces so that the conjunctiva is not damaged. Pin is tilted 10° towards center of lens to assist in engaging suture. This lens provides a more controlled alternative to laser suture lysis.



Product Code	Image Mag	Contact Diameter	Lens Height
OWSM	1.29x	5mm	22mm

### 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. Lens stem inserts to a depth of approximately 1.2mm below corneal surface. Vitrectomy lenses may be placed on top of the keratoprosthesis to alter magnification or field of view.



Product Code	Image Mag.	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

\*The Landers Wide Field Temporary Keratoprosthesis is not CE certified.

### 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

\*The Cobo Temporary Keratoprosthesis is not CE certified.

OCTK-6.5 USE CLEANING METHOD 3; ALL OTHER PRODUCTS ON THIS PAGE USE CLEANING METHOD 1



## 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.



<u>Product Code</u>	<u>Gonio Mag.</u>	<u>Contact Diameter</u>	<u>Static FOV</u>
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 traditional 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.



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

*Osher Kit Lenses Also Available Separately.*

OOSGP USES CLEANING METHOD 3

OI-78M USES CLEANING METHOD 2



## 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.



Staurenghi SLO 13mm Diameter Lens. Excellent for pediatric patients and can be used as a research lens for use in the small eyes of laboratory animals.

<u>Product Code</u>	<u>Contact Diameter</u>	<u>Static FOV</u>	<u>Image Magnification</u>
OSR230	19mm	150°	.23x
OSR230-13	13mm	150°	.23x

*Journal reference: Arch Ophthalmol, Vol. 123, pp. 244-252, February 2005.*



## 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.



<u>Product Code</u>	<u>Image Mag</u>
OSLO60-2	.50x

## 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 estimate 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 KASABY BARRAQUER 20-30MM HG TONOMETER

Two reticle ring diameters are calibrated to 20mm Hg and 30mm Hg. Valuable tonometer for comparing post cataract surgery intraocular pressure. Tonometer is made of durable clear acrylic. Can be flash steam autoclaved.

Product Code	Contact Diam.	Lens Height
OKBT-20-30	10.5mm	32.5mm

*Journal Reference: Journal of Cataract & Refractive Surgery, Vol. 34, No. 2, pp. 258-261, February 2008*

### OCULAR GRIFFIN BARRAQUER 30-50MM HG TONOMETER

Two reticle ring diameters are calibrated to 30mm Hg and 50mm Hg. Valuable tonometer for use during Descemet's stripping automated endothelial keratoplasty (DSAEK) procedure. Tonometer is made of durable clear acrylic. Can be flash steam autoclaved.

Product Code	Contact Diam.	Lens Height
OGBT-30-50	10.5mm	32.5mm

### OCULAR BARRAQUER 65

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

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



**OCULAR BARRAQUER 65-90**

Approximates 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.

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



**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 microkeratomers.

<u>Product Code</u>	<u>Contact Diam.</u>	<u>Lens Height</u>
OBBT	8mm	67mm



**OCULAR BARRAQUER VARLEY 90**

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

<u>Product Code</u>	<u>Contact Diam.</u>	<u>Lens Height</u>
OBVT	8mm	56mm

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

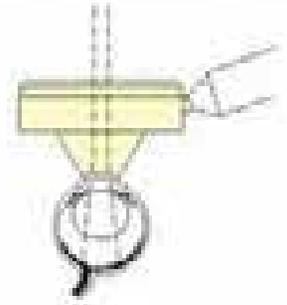
Replacement silicone ring, sold in a package of 5.

<u>Product Code</u>
OBT-O

**OCULAR 2MM FUNDUS LASER LENS**

Provides clear visualization of the ocular fundus and posterior pole. Conical shaped contact design for ease of use. AR coated plano anterior surface helps to reduce reflections and enhance the view. Ergonomic handle design for ease of manipulation. Designed for mice.

Product Code	Contact Diameter	Lens Height	Handle Length
OFA2.0	2mm	6.7mm	79mm



**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	5.9mm	79mm



**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	79mm

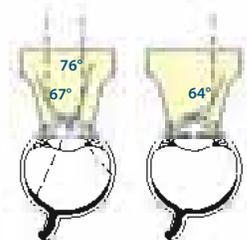
Journal Reference: *Molecular Vision 2000, Vol. 8, pp. 26-31, February 2002*



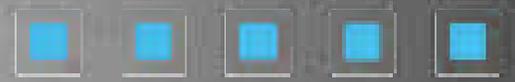
**OCULAR KAUFMAN LASER LENS**

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



OCULAR RESEARCH LENSES USE CLEANING METHOD 1



**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. It is recommended to purchase the refill kit (OEMI-KIT) with the Imaging Eye Model.

<u>Product Code</u>	<u>Style</u>
OEMI-7	7mm Imaging Eye Model



**OCULAR IMAGING EYE MODEL REFILL KIT**

Replacement fill kit for the Imaging Eye Model (OEMI-7). Includes 3cc syringe, 21 gauge blunt needle, 1/16 hex key, set screw and bottle of water. It is recommend to purchase the Replacement Refill Kit with the Ocular Imaging Eye Model (OEMI-7).

<u>Product Code</u>
OEMI-KIT



**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.

<u>Product Code</u>
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. For use with OEMF (Discontinued).

<u>Product Code</u>
OEMB2

## OCULAR MULTI-LENS CASES

Walnut lens cases built to your specification. Contact our Customer Service department for a custom lens case order form.



## 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

## OCULAR STERILIZATION/DISINFECTION LENS CASES

Sterilization/disinfection cases for Ocular 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-C2	2 Lens
OLV-C3	10 Lens
OLV-C3-HRI	10 Lens
OLV-C4	AC, (O4MAC, O4MAC-LR)
OLV-C5	6" x 2.5" x .75"
OLV-C6	6" x 2.5" x 1.25"
OLV-C7	2.65" x 1.54" x 1.75"
OLV-C8	6" x 10" x 1.5"

## 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, Autoclavable



## 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



**OCULAR 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.

<u>Product Code</u>	<u>Flange Diameter</u>
OACF-15	15mm
OACF-17	17mm



**OCULAR FOUR MIRROR LENS FLANGE**

Flange designed to be installed on the glass Ocular MaxField® Autoclavable Four Mirror Gonio Lens (O4MAC, O4MAC-1X, O4MAC-LR, O4MAC-1X-LR), and the Ocular Gaasterland Four Mirror Gonio Lens (OG4MG, OG4MG-1X, OG4MG-LR, OG4MG-1X-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.

<u>Product Code</u>	<u>Flange Diameter</u>
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.

<u>Product Code</u>
OKWB21



### 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.

<u>Product Code</u>	<u>Style</u>
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



### OCULAR LUER TUBE ASSEMBLY

Replacement Luer Tube Assembly for the vitrectomy infusion handled lenses.

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



# CLEANING METHODS

DEVICES	CLEANING		DISINFECTION	STERILIZATION					
	MILD SOAP	ALCOHOL WIPE	DISINFECTION	EO	FLASH AUTOCLAVE (UN-WRAPPED STEAM)	STEAM AUTOCLAVE	ASP STERRAD	STERIS SYSTEM 1E	3M OPTREOZ
<b>CLEANING METHOD 1</b> All Ocular Laser and Diagnostic Lenses and OKSG, OLIV-EQNA, OLIV-WFNA, OLTK-7.2, OLTK-8.2, OMUSG, OTSG, OUV-132-2, OWIV-HMNA	X		X	X				X	X
<b>Note:</b> OMRA-HM and OMRA-HM-2 are not compatible with Steris System 1E									

<b>CLEANING METHOD 2</b> All Ocular MaxField® Glass Indirect Diagnostic/Laser Lenses	X	X	X	X			X	X	X
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<b>CLEANING METHOD 2</b> All Ocular MaxLight® CR-39 Indirect Diagnostic/Laser Lenses	X	X	X	X					X
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<b>CLEANING METHOD 3</b> All Ocular Surgical Lenses and Rings and OI-20A, OI-28A, O4MAC, O4MAC-15, O4MAC-17, O4MAC-1X, O4MAC-1X-15, O4MAC-1X-17, O4MAC-H, O4MAC-1X-H, O4MAC-LR, O4MAC-LR-15, O4MAC-LR-17, O4MAC-1X-LR, O4MAC-1X-LR-15, O4MAC-1X-LR-17, OG3MAC-10, OG3MAC-15, OG3MAC-17	X		X	X	X	X	X	X	X
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**Note:** For products with lumens please consult the sterilization manufacturer for compatibility.

<b>CLEANING METHOD 4</b> All Ocular Tonometers	X		X	X	X	X		X	X
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This chart is for general information only. Please see the Ocular Instruments Product Care Instructions which came with your product or are located on our website at [www.ocularinc.com](http://www.ocularinc.com) for specific product care instructions.

### CLEANING - MILD SOAP

- Rinse:** Immediately upon removal from patient's eye, thoroughly rinse in cool or tepid water to avoid soil drying on surfaces or lumens.
- Wash:** Place a few drops of low foaming mild soap (i.e., neutral pH (7.0) detergent formulated for medical instruments) on a moistened cotton ball. Gently clean with a circular motion until all soil has been removed. Flush all lumens with detergent solution to remove soil.
- Rinse:** Thoroughly rinse lens and flush lumens in cool or tepid high purity water, then dry carefully with a non-linting tissue or hospital grade compressed air.
- Inspect:** Visually inspect all surfaces, crevices, joints, holes and lumens for complete removal of soil and fluid. If any soil or fluid is visible, then repeat cleaning.
- 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.

### CLEANING - ALCOHOL WIPE

- Wipe:** Clean with alcohol wipe.
- Then:** Proceed with either disinfection or sterilization instructions.
- 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.

### DISINFECTION

Disinfectant solutions (e.g., Approved by FDA, DGHM, CE Mark...) may be used in accordance with label instructions of the disinfectant manufacturer. Pay strict attention to disinfectant manufacturers recommended concentrations and contact durations. Ensure that disinfectant solution makes complete contact with all device surfaces and lumens.

After manual high level disinfection, soak and rinse lens in large volume of cool or tepid sterile water for 1 minute and thoroughly flush lumens. Repeat this procedure 2 times with fresh rinse water to ensure removal of disinfection solution.

- Caution:** To avoid damage to the lens, do not exceed recommended exposure time.
- Caution:** If used on an ulcerated cornea, lens must be **STERILIZED** before next procedure.

### STERILIZATION

Please see the Ocular Instruments Product Care Instructions which came with your product or are located on our website at [www.ocularinc.com](http://www.ocularinc.com) for specific sterilization instructions.

### ADDITIONAL INFORMATION

Other forms of cleaning and sterilization equipment are available. Please consult instructions of the processing equipment or the manufacturer for compatibility claims. All cleaning and sterilization processes require validation at the point of use.

## **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.

### **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 a return authorization number.

All Ocular Instruments products are unconditionally guaranteed against defects in materials and workmanship within 1 year of 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**

Visa, Mastercard and American Express accepted.  
Net 30 days upon credit approval.

## **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 5 business 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 FedEx, prepaid and insured for full value. Please clean and disinfect all products prior to returning. If returning lens from outside the U.S., please ensure all applicable duties and taxes fees are paid by the sender. Ocular Instruments is not responsible for incoming duties and taxes.

## **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.

# ALPHABETICAL INDEX



	DESCRIPTION	CODE	PAGE		DESCRIPTION	CODE	PAGE
A	Abraham Capsulotomy	OAYA	16	G	Gaasterland 4 Mirror Gonio Diag	OG4MG	22
	Abraham Iridectomy	OAIA	10		Gaasterland 4 Mirror Gonio Diag	OG4MG-15	22
	Abraham Iridectomy YAG	OAIY	16		Gaasterland 4 Mirror Gonio Diag	OG4MG-17	22
	Ahmed 1.5x Surgical Gonio	OASG	51		Gaasterland 4 Mirror Gonio Diag	OG4MG-H	22
	Ahmed 1.5x Surgical Gonio (w/handle)	OASG-H	51		Gaasterland 4 Mirror Gonio Diag	OG4MG-1X	22
	Autoclavable Case	OLV-C4	60		Gaasterland 4 Mirror Gonio Diag	OG4MG-1X-15	22
	Autoclavable Case, 10 Lens	OLV-C3	60		Gaasterland 4 Mirror Gonio Diag	OG4MG-1X-17	22
	Autoclavable Case, 10 Lens HRI	OLV-C3-HRI	60		Gaasterland 4 Mirror Gonio Diag	OG4MG-1X-LR	22
	Autoclavable Case, 2 Lens	OLV-C2	60		Gaasterland 4 Mirror Gonio Diag	OG4MG-1X-LR-15	22
	Autoclavable Case, 8 Lens	OLV-C	60		Gaasterland 4 Mirror Gonio Diag	OG4MG-1X-LR-17	22
B	Autoclavable Three Mirror Diag	OG3MAC-10	25	Gaasterland 4 Mirror Gonio Diag	OG4MG-1X-H	22	
	Autoclavable Three Mirror Diag	OG3MAC-15	25	Gaasterland 4 Mirror Gonio Diag	OG4MG-LR	22	
	Autoclavable Three Mirror Diag	OG3MAC-17	25	Gaasterland 4 Mirror Gonio Diag	OG4MG-LR-15	22	
				Gaasterland 4 Mirror Gonio Diag	OG4MG-LR-17	22	
	Barraquer (ECP) Tonometer	OBT-TC-10-15	56	Goniometric Magna View	OMVG200	13	
	Barraquer (Phaco & SLIP) Tonometer	OBT-TC-15-21	56	Goniometric Magna View (flange)	OMVGF200	13	
	Barraquer 65mm Hg Tonometer	OBT-65	56	Gonioscopic Solution Holder	OGSH	61	
	Barraquer 65/90mm Hg Tonometer	OBT-65-90	57	Grid, Saxena Retinal 428	OI-SRG428	33	
	Barraquer Tonometer Silicone Ring	OBT-O	57	Grid, Saxena Retinal 520	OI-SRG520	33	
	Barraquer Varley 90mm Hg Tonometer	OBVT	57	Griffin Barraquer 30-50mm HG Tonometer	OGBT-30-50	56	
Barron Barraquer 65/90mm Hg Tonometer	OBBT	57					
C	Carrying Case, IVS	OIVS-C	60	H	Handle, Wide Angle Vitr Lens	OLIV-H	39
	Carrying Case, SVS	OSVS-C	60		Hexagonal Biconcave Vitr Lens	OHBVE	49
	Case, Autoclavable, 2 Lens	OLV-C2	60		Hexagonal Flat Vitr Lens	OHFVE	49
	Case, Autoclavable, 8 Lens	OLV-C	60		Hexagonal Magnifying Vitr Lens	OHMVE	49
	Case, Autoclavable, 10 Lens	OLV-C3	60		Hexagonal Wide Field Vitr Lens	OHWVE	49
	Case, Autoclavable, 10 Lens HRI	OLV-C3-HRI	60		High Definition Three Mirror	OG3MHD-10	11, 25
	Case, Autoclavable	OLV-C4	60		High Definition Three Mirror	OG3MHD-15	11, 25
	Case, Autoclavable, 6" x 2.5" x 0.75"	OLV-C5	60		High Definition Three Mirror	OG3MHD-17	11, 25
	Case, Autoclavable, 6" x 2.5" x 1.25"	OLV-C6	60		Hill Surgical Gonioprism, Left Hand	OHSGLH	52
	Case, Autoclavable, 2.65" x 1.54" x 1.75"	OLV-C7	60		Hill Surgical Gonioprism, Right Hand	OHSGRH	52
D	Case, Autoclavable, 6" x 10" x 1.5"	OLV-C8	60	Holder, OIV-132 Lens	OIV-H132	43	
	Cleaning Cloth, Lens	OLCC	61	Holder, OUV-132-2 Lens	OUV-H132-2	43	
	Cleaning Cloth, Lens Autoclavable	OLCCA	61	Hoskins-Barkan Goniotomy Lens	OHBG-1	53	
	Cobo 6.5 Temp Keratoprosthesis	OCTK-6.5	53	Hoskins-Barkan Goniotomy Lens	OHBG-2	53	
	Contact System, Reichel Viscous	ORVCS	47	Hoskins-Barkan Goniotomy Lens	OHBG-3	53	
				Hoskins Nylon Suture	OHSA	15	
	Disposable, 30° Prism Vitr	ODV3P	46	Hwang-Latina 5.0 SLT Lens	OHLSTL	19	
	Disposable, Biconcave Vitr	ODVB	46	Hwang-Latina 5.0 SLT Lens (flange)	OHLSTLF	19	
	Disposable, Flat Vitr	ODVF	46				
	Disposable, Magnifying Vitr	ODVM	46	I	Indirect Lens Sterilizing Tray	OI-ST	60
Disposable, Wide Field Vitr	ODVW	46	Indirect Vitr 132D		OIV-132	43	
Double Mirror Surgical Gonio Lens	ODMSG	51	Inverter Vitr System (Leica)		OIVSL	39	
			Inverter Vitr System (Zeiss)		OIVSZ	39	
E	Eye Model Bracket	OEMB1	59	K	Kapetansky Water Bath	OKWB21	62
	Eye Model Fill Kit	OEMFK	59		Karickhoff 21mm Vitreous Lens	OJKY-21	18
	Eye Model, Imaging	OEMI-7	59		Karickhoff, Diag, 18mm OD	OJK	24
	Eye Model, Table Top Eye Holder	OEMB2	59		Karickhoff, Diag, w/flange, 20mm OD	OJKF	24
F	Flat Vitr Infusion (Purple)	OFVI	49		Karickhoff, Laser, 18mm OD	OJKA	10
	Flat Vitr Infusion (Pediatric)	OPFVI	49		Karickhoff, Laser, w/flange, 20mm OD	OJKFA	10
	Four Mirror Lens Flange (15mm)	OACF4-15	62		Karickhoff 30mm Off-Axis Vitreous Lens	OJKPY-30	18
	Four Mirror Lens Flange (17mm)	OACF4-17	62		Karickhoff Off-Axis Vitreous Lens	OJKPY-25	18
	Four Mirror Mini Gonio Diag (NMR)	O4GF	23		Kasaby Barraquer 20-30mm Hg Tonometer	OKBT-20-30	56
	Four Mirror Mini Gonio Diag (NMR)	O4GF-LR	23		Kaufman 1M Research	OKSMA	58
	Four Mirror Mini Gonio Laser (NMR)	O4GFA	14	Kaufman 2M Research	OK2MA	58	
	Four Mirror Mini Gonio Laser (NMR)	O4GFA-LR	14	Khaw 4D 1X Direct View Gonio	OK4DG-1X	22	
	Foxman Vitrectomy Lens Ring	OFV-4	47	Khaw 4D Direct View Gonio Diag	OK4DG	22	
	Fundus 5.4 Research	OFA5.4	58	Khaw Surgical Gonioprism	OKSG	52	
Fundus Diag	OGF	25	Koeppel, Large, 19mm Diag	OKL	26		
Fundus Diag (NMR-K)	OGF-2	25	Koeppel, Medium, 18mm Diag	OKM	26		
Fundus Laser	OGFA	9	Koeppel, Small, 17mm Diag	OKS	26		
Fundus Laser (NMR-K)	OGFA-2	9					



# ALPHABETICAL INDEX



	DESCRIPTION	CODE	PAGE		DESCRIPTION	CODE	PAGE	
L	Landers Biconcave Lens 83D	OLV-2	45	M	Mandelkorn Iridotomy/Capsulotomy	OMIC	17	
	Landers Biconcave Vitr Infusion (Red)	OBVI	49		Mandelkorn Suture Lysis	OMSLA	15	
	Landers Four Post Vitr Lens Ring	OLV-1-4P	47		MaxAC <sup>®</sup> Autoclavable Lens Stand	OI-LSA	34, 61	
	Landers 50° Prism	OLV-8	46		MaxAC <sup>®</sup> 20D Indirect	OI-20A	33	
	Landers Equatorial II Vitr	OLIV-EQ-2	40		MaxAC <sup>®</sup> 28D Indirect	OI-28A	33	
	Landers HRI 20° Prism Vitr	OLV-6-HRI	44		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC	23	
	Landers HRI 30° Prism Vitr	OLV-7-HRI	44		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-15	23	
	Landers HRI Biconcave 90D Vitr	OLV-2-HRI	44		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-17	23	
	Landers HRI Magnifying Vitr	OLV-3-HRI	44		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-LR	23	
	Landers HRI Vitr Lens Set	OLVS-HRI	44		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-LR-15	23	
	Landers HRI Wide Field Vitr	OLV-4-HRI	44		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-LR-17	23	
	Landers Irrigating Notched Vitr Lens Ring	OLV-1-IN	47		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-H	23	
	Landers Irrigating Vitr Lens Ring	OLV-1-IR	47		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X	23	
	Landers Lens Forceps	OLV-FCP	44, 45		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X-15	23	
	Landers NA Equatorial Vitr	OLIV-EQNA	41		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X-17	23	
	Landers NA Wide Field Vitr	OLIV-WFNA	41		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X-LR	23	
	Landers Ocluder	OLV-OC	44, 45		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X-LR-15	23	
	Landers ROP Lens Attachment	OI-LROP	32		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X-LR-17	23	
	Landers Silicone Vitr Lens Ring	OLV-1S	47		MaxField <sup>®</sup> AC 4 Mirror Gonio Diag	O4MAC-1X-H	23	
	Landers Tall Notched Vitr	OLV-1-TN	44, 45		MaxField <sup>®</sup> 14D Indirect	OI-14M	30	
	Landers Vitr Lens Ring	OLV-1	45		MaxField <sup>®</sup> 18D Indirect	OI-18M	30	
	Landers Vitr Lens Ring System	OLVS-3	45		MaxField <sup>®</sup> 20D Indirect	OI-20M	30	
	Landers Vitr Lens Ring System	OLVS-3N	45		MaxField <sup>®</sup> 20D Small Lens	OI-20MS	31	
	Landers Wide Angle Surgical Viewing System	OSVS	42		MaxField <sup>®</sup> 22D Indirect	OI-22M	31	
	Landers Wide Field Temp Keratoprosthesis	OLTK-7.2	53		MaxField <sup>®</sup> 25D Indirect	OI-25M	31	
	Landers Wide Field Temp Keratoprosthesis	OLTK-8.2	53		MaxField <sup>®</sup> 28D Indirect	OI-28M	31	
	Landers Wide Field Vitr	OLIV-WF	40		MaxField <sup>®</sup> 30D Indirect	OI-30M	32	
	Latina 5 Bar SLT Lens	OL5SLT	19		MaxField <sup>®</sup> 35D Indirect	OI-35M	32	
	Latina 5 Bar SLT Lens (flange)	OL5SLTF	19		MaxField <sup>®</sup> 40D Indirect	OI-40M	32	
	Latina SLT Gonio Laser	OLSLT	19		MaxField <sup>®</sup> 54D Indirect	OI-54M	35	
	Latina SLT Gonio Laser (flange)	OLSLTF	19		MaxField <sup>®</sup> 60D Indirect	OI-60M	35	
	Layden Suture Lysis Lens	OLSA	15		MaxField <sup>®</sup> 66D Indirect	OI-66M	36	
	Lee-Mainster SLO Lens	OSLO60-2	55		MaxField <sup>®</sup> 72D Indirect	OI-72M	36	
	Lens Cleaning Cloth	OLCC	61		MaxField <sup>®</sup> High Mag 78D Indirect	OI-HM-78M	36	
	Lens Cleaning Cloth, Autoclavable	OLCCA	61		MaxField <sup>®</sup> (Osher) 78D Indirect	OI-78M	37, 54	
	Lens Protection Ring Large	OLPR-L	63		MaxField <sup>®</sup> 84D Indirect	OI-84M	37	
	Lens Protection Ring Medium	OLPR-M	63		MaxField <sup>®</sup> Standard 90 Indirect	OI-STD	37	
	Lens Protection Ring Ritch Trabeculoplasty	OLPR-RIT	63		MaxField <sup>®</sup> Std 90 Large Ring Indirect	OI-STD-M-LR	37	
	Lens Protection Ring Small	OLPR-S	63		MaxField <sup>®</sup> 100D Indirect	OI-100M	38	
	Lens Protection Ring Sussman	OLPR-SUS	63		MaxField <sup>®</sup> 120D Indirect	OI-120M	38	
	Lens Protection Ring Sussman Large	OLPR-SUS-2	63		MaxLight <sup>®</sup> High Mag 78 Indirect	OI-HM	34	
	Luer Tube Assembly	OLTA	63		MaxLight <sup>®</sup> Standard 90 Indirect	OI-STD	35	
	Luer Tube Assembly	OLTA-2	63		MaxLight <sup>®</sup> Standard 90 Large Ring Indirect	OI-STD-LR	35	
	M	Machemer Flat Vitr	OLV-5		45	MaxLight <sup>®</sup> Triple Two Panfundus	OI-222	29
		Machemer Mag Vitr Infusion (Blue)	OMVI		50	MaxLight <sup>®</sup> Ultra Mag 60 Indirect	OI-UM	34
		Machemer Magnifying Vitr	OLV-3		45	MaxLight <sup>®</sup> 14D Indirect	OI-14	29
		Machemer Plus Vitr	OLV-5SR		46	MaxLight <sup>®</sup> 18D Indirect	OI-18	29
		Magna View Gonio	OMVGL		12	MaxLight <sup>®</sup> 20D Indirect	OI-20	29
Magna View Gonio (flange)		OMVGLF	12	MaxLight <sup>®</sup> 28D Indirect	OI-28	30		
Magna View Goniometric		OMVG200	13	Mori Upright Surgical Gonio Lens	OMUSG	51		
Magna View Goniometric (flange)		OMVGF200	13	N	NMR-K Single Mirror Gonio Diag	OSMG-2	26	
Magna View Two Mirror Gonio		OMV2G	12		NMR-K Single Mirror Gonio Laser	OSMGA-2	13	
Magna View Two Mirror Gonio (flange)		OMV2GF	12	O	132D Indirect Vitr Lens	OIV-132	43	
Mainster High Magnification		OMRA-HM	8		132D Indirect Vitr Lens Holder	OIV-H132	43	
Mainster High Magnification (NMR)		OMRA-HM-2	8		132D Upright Vitr Lens Holder	OUV-H132-2	43	
Mainster PRP 165		OMRA-PRP-165	7		1.5X Magna View Gonio	OMVGL-1.5X	12	
Mainster PRP 165-2 (NMR)		OMRA-PRP-165-2	7		1.5X Magna View Gonio (w/flange)	OMVGLF-1.5X	12	
Mainster (Standard) Focal/Grid		OMRA-S	8		Osher MaxField <sup>®</sup> 78D Indirect	OI-78M	37, 54	
Mainster (Standard) Focal/Grid (NMR)		OMRA-S-2	8		Osher Surgical Gonio Post Pole	OOSGP	54	
Mainster Wide Field		OMRA-WF	7		Osher Surgical Viewing Kit	OSVK	54	
Mainster Wide Field (NMR)		OMRA-WF-2	7					



# ALPHABETICAL INDEX



	DESCRIPTION	CODE	PAGE	
<b>P</b>	Parts, SVS	OSVS-xx	42	
	PDT 1.6X	OPDT	9	
	PDT 1.6X (NMR)	OPDT-2	9	
	Pediatric Biconcave Vitr	OPV-B	48	
	Pediatric Flat Infusion (Purple)	OPFVI	49	
	Pediatric Flat Vitr	OPV-F	48	
	Pediatric Lens Forceps	OPV-FCP	48	
	Pediatric Lens Ring	OPV-R	48	
	Pediatric Prism Vitr	OPV-P	48	
	Pediatric Reichel-Mainster 1X Retina	ORMR-1X-P	7	
	Pediatric Vitr Lens Set	OPV-S	48	
	Peyman-Green Fluid Cell Vitr Infusion (Green)	OPGVI	50	
	Peyman G. Capsulotomy	OPYG-12-12	16	
	Peyman III Wide Field Vitr Infusion (Gold)	OPVI-3	50	
	Peyman Pediatric Wide Field	OPPWV	50	
	Peyman Wide Field Vitr	OLV-4	45	
	Peyman Wide Field YAG, 12.5mm	OPY-12.5	17	
	Peyman Wide Field YAG, 18mm	OPY-18	17	
	Peyman Wide Field YAG, 25mm	OPY-25	17	
	Peyman-Wessels-Landers Upright 132D	OUV-132-2	43	
	Pollack Iridotomy/Gonio	OPIG	17	
	Posner Diag/Gonioprism	OPDSG	21	
	Posner Diag/Gonioprism	OPDSG-2	21	
	Posner Diag/Gonioprism	OPDSG-3	21	
	Proretina 120 PB	OPR-120	9	
Proretina 120 PB NMR	OPR-120-2	9		
<b>R</b>	Reichel-Mainster 1X Retina	ORMR-1X	7	
	Reichel-Mainster 2X Retina	ORMR-2X	8	
	Reichel-Mainster 1X Retina (NMR)	ORMR-1X-2	7	
	Reichel-Mainster 2X Retina (NMR)	ORMR-2X-2	8	
	Reichel-Mainster 1X Retina (Pediatric)	ORMR-1X-P	7	
	Reichel Vitrectomy Lens Holder	ORVLH	47	
	Reichel Viscous Contact Systems	ORVCS	47	
	Ring, Protection, Large	OLPR-L	63	
	Ring, Protection, Medium	OLPR-M	63	
	Ring, Protection, Ritch Trabeculoplasty	OLPR-RIT	63	
	Ring, Protection, Small	OLPR-S	63	
	Ring, Protection, Sussman	OLPR-SUS	63	
	Ring, Protection, Sussman, Large	OLPR-SUS-2	63	
	Ritch Nylon Suture	ORNSA	15	
	Ritch Panoramic Surgical Gonioprism	ORPSG	52	
	Ritch Trabeculoplasty	ORTA	14	
	Rubber Adjustment Knob, IVS	OIVS-K	39	
	<b>S</b>	Saxena Retinal Grid 428	OI-SRG428	33
		Saxena Retinal Grid 520	OI-SRG520	33
		Screw Driver, Slotted, IVS	OIVS-SD	39
		Single Mirror Gonio Diag	OSMG	26
		Single Mirror Gonio Diag (flange)	OSMGF	26
		Single Mirror Gonio Diag (NMR-K)	OSMG-2	26
		Single Mirror Gonio Laser	OSMGA	13
		Single Mirror Gonio Laser (flange)	OSMGFA	13
Single Mirror Gonio Laser (NMR-K)		OSMGA-2	13	
Starengi 230 SLO Retina Lens		OSR230	55	
Starengi 230 SLO Retina Lens, 13mm		OSR230-13	55	
Surgical Viewing System Case		OIVS-C	39, 60	
Surgical Viewing System Case		OSVS-C	42, 60	
Sussman 4 Mirror Gonioscope Diag		OS4M	21	
Sussman 4 Mirror Gonioscope Diag		OS4M-2	21	
SVS Parts		OSVS-xx	42	
Swan-Jacob Autoclavable Gonioprism		OSJAG	52	

	DESCRIPTION	CODE	PAGE		
<b>T</b>	2mm Fundus Laser Lens	OFA2.0	58		
	2mm Gonioprism Research	OGP2	58		
	2mm Gonioprism Research	OGP2H	58		
	Tano Vitr Lens Ring	OTN-R	47		
	Thorpe Four Mirror Gonio Diag	OT4MG	21		
	Thorpe Four Mirror Gonio Laser	OT4MGA	14		
	Three Mirror 10mm Gonio Diag (NMR)	OG3M-10	24		
	Three Mirror Diag, Autoclavable	OG3MAC-10	25		
	Three Mirror Diag, Autoclavable	OG3MAC-15	25		
	Three Mirror Diag, Autoclavable	OG3MAC-17	25		
	Three Mirror Diag, 13mm OD (NMR)	OG3M-13	24		
	Three Mirror Diag, 15mm OD	OG3MI	24		
	Three Mirror Diag, 16mm OD (NMR)	OG3M-2	24		
	Three Mirror Diag, 17mm OD	OG3MP	24		
	Three Mirror Diag, High Definition	OG3MHD-10	11, 25		
	Three Mirror Diag, High Definition	OG3MHD-15	11, 25		
	Three Mirror Diag, High Definition	OG3MHD-17	11, 25		
	Three Mirror Diag, Short, 18mm OD	OG3MS	24		
	Three Mirror Diag, Short, 16mm OD (NMR)	OG3MS-2	24		
	Three Mirror Diag, Universal, 18mm OD	OG3M	24		
	Three Mirror Diag, w/flange, 20mm OD	OG3MF	24		
	Three Mirror Laser, 13mm OD (NMR)	OG3MA-13	11		
	Three Mirror Laser, 15mm OD	OG3MIA	11		
	Three Mirror Laser, 17mm OD	OG3MPA	11		
	Three Mirror Laser, High Definition	OG3MHD-10	11, 25		
	Three Mirror Laser, High Definition	OG3MHD-15	11, 25		
	Three Mirror Laser, High Definition	OG3MHD-17	11, 25		
	Three Mirror Laser, Short, 18mm OD	OG3MSA	11		
	Three Mirror Laser, Universal, 18mm OD	OG3MA	11		
	Three Mirror Laser, w/flange, 20mm OD	OG3MFA	11		
	Three Mirror Laser, 16mm OD NMR	OG3MA-2	11		
	Three Mirror Laser, Short, 16mm OD NMR	OG3MSA-2	11		
	Three Mirror Lens Flange	OACF-15	62		
	Three Mirror Lens Flange	OACF-17	62		
	Tolentino 20° Prism	OLV-6	45		
	Tolentino 30° Prism	OLV-7	45		
	Two Mirror Gonio Diag	O2M	26		
	Two Mirror Gonio Diag (flange)	O2MF	26		
	Two Mirror Gonio Diag (NMR-K)	O2M-2	26		
	Two Mirror Gonio Laser	O2MA	13		
	Two Mirror Gonio Laser (flange)	O2MFA	13		
	Two Mirror Gonio Laser (NMR)	O2MA-2	13		
	<b>U</b>	Ultra View SP 132D Indirect	OI-SP	38	
		<b>V</b>	Vitr Lens Case, AC	OLV-C4	60
			Vitr Lens Case, 2 Lens	OLV-C2	60
Vitr Lens Case, 8 Lens			OLV-C	60	
Vitr Lens Case, 10 Lens			OLV-C3	60	
Vitr Lens Case, 10 Lens	OLV-C3-HRI		60		
<b>W</b>	Wells Suture Manipulator Lens	OWSM	53		
	Wide Angle Vitr Lens Handle	OLIV-H	39		
	Wise Iridotomy-Sphincterotomy	OWISA	10		
	Woldoff High Magnification	OWIV-HM	40		
	Woldoff NA High Magnification	OWIV-HMNA	41		
Woldoff Prismatic Biconcave	OLV-9	45			
<b>Y</b>	Yannuzzi Fundus Laser	OYFA	9		



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