



Ocular MaxLight® Indirect Diagnostic / Laser Lenses

CE	Product Code/ Lens Name	Used With	Image Magnification	Approximate Laser Spot Mag Factor	Static Field of View	Dynamic Field of View	Working Distance from Cornea (mm)	Clear Aperture (mm)	Lens Weight (grams)
	OI-14 14 Diopter	BIO	4.29x	0.23x	37°	na	72	52.0	34
	OI-18 18 Diopter	BIO	3.40x	0.29x	44°	na	55	48.0	39
	OI-20 20 Diopter	BIO	2.97x	0.34x	50°	na	47	48.0	39
	OI-222 Triple Two 22 Diopter	BIO	2.72x	0.37x	60°	na	39	52.0	48
	OI-28 28 Diopter	BIO	2.13x	0.47x	58°	na	29	38.2	22
	OI-UM Ultra Mag 60D	Slit Lamp	1.15x	0.87x	76°	131°	11	30.0	17
	OI-HM High Mag 78D	Slit Lamp	0.93x	1.07x	84°	139°	8	29.1	17
	OI-STD Standard 90	Slit Lamp	0.75x	1.34x	94°	153°	5	19.2	6
	OI-STD-LR Standard 90 with Large Ring	Slit Lamp	0.75x	1.34x	94°	153°	5	19.2	15
Lens Coating	The Laserlight® HD, high efficiency, broad band, anti-reflective coating provides optimal image contrast, minimizes bothersome reflections, and maximizes visible and diode laser transmission.								

Lens Design

- Each lens incorporates state of the art aspheric computer generated design and manufacturing techniques.
- OI-14 through STD-LR are made of a superior optical material, which cuts fatiguing weight by 40%.
- They are guaranteed for 3 years against breakage, coating abrasion and defects in material and workmanship.
- These eight lenses also receive an exclusive hydrophobic coating, which repels water, smudges and dust, making cleaning easier.
- The 90D Standard is also available with a larger, 32mm holding ring. *Product Code:* OI-STD-LR
- Lenses also available in colored mounts. Contact Ocular Instruments for further information.

LENS	USED FOR
OI-14	Detailed examination of macula and optic disc
OI-18	Increased image magnification for B.I.O.
OI-20	Most common lens for B.I.O.
OI-222	General fundus exam, very wide field
OI-28	General purpose, popular for examining children
OI-UM	Detailed examination of the macula and optic disc
OI-HM	High resolution to examine fine detail
OI-STD and -LR	Most popular power for non-contact fundus examination

Technique

- Commonly known indirect ophthalmoscopy techniques using either the slit lamp or binocular indirect ophthalmoscope should be used.
- The silver ring on the lens holder should be held toward the patient's eye during examination. It is important to recognize that this unidirectional design provides the best image quality possible.
- Keep the lens centered on the patient's pupil.
- Hold the lens far enough from the patient's eye so that the retinal image is the same diameter as the lens.
- Keep the illumination source as dim as possible to minimize reflections and loss of image contrast.
- Use the *Ocular Lens Cleaning Cloth (OLCC)* to keep lens clean and minimize glare from the lens surface.

Cleaning

Clean with alcohol wipe.

Disinfecting

Soak In:	GLUTARALDEHYDE	OR	BLEACH
	2% or 3.4% aqueous solution		10% solution mixed at: 1 part bleach to 9 parts cool tepid water
	Temperature per manufacturer instructions		Recommended exposure time = 10 minutes
	Minimum exposure time = 20 minutes		
CAUTION To avoid damage to the lens, do not exceed recommended exposure time.			
Then:	Rinse lens <i>thoroughly</i> to remove disinfection solution. 3 cycles of 1 minute, with cool or tepid water is recommended. Dry carefully and place in a dry storage case.		
NOTE	This lens is known to be compatible with: Asepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, and Opti-Cide.		

Sterilizing

AUTOCLAVE	STERRAD	STERIS SYSTEM 1	ETO	ETO Parameters		
No	No	No	YES	Minimum Time	Temperature	Aeration Time
			See Right	1 hour	130°F (54°C)	12 hours
WARNING Never Steam Autoclave or Boil listed lenses. Never soak in Alcohol, Acetone or Other Solvents. DO NOT sterilize lens in its plastic or wooden storage case.						

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

