







Ocular MaxLight® Indirect Diagnostic / Laser Lenses

	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-20 20 Diopter	BIO	2.97x	0.34x	50°	na	47	48.0	39
	OI-28 28 Diopter	BIO	2.13x	0.47x	58°	na	29	38.2	22
	OI-HM High Mag 78D	Slit Lamp	0.93x	1.07x	84°	139°	8	29.0	17
	OI-STD Standard 90	Slit Lamp	0.75x	1.34x	94°	153°	5	19.0	6
	OI-STD-LR Standard 90 with Large Ring	Slit Lamp	0.75x	1.34x	94°	153°	5	19.0	15
Lens Coating	The Laserlight®, 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.
- Each lens is made of a superior optical material, which cuts fatiguing weight by 40%.
- These 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 holding rings (Blue, Gold, Green, Purple, and Red). Contact Ocular Instruments for further information.

LENS	USED FOR
OI-20	Most common lens for B.I.O.
OI-28	General purpose, popular for examining children
OI-HM	High resolution to examine fine detail
OI-STD and OI-STD-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.

Device Characteristics and Precautions

Device Description:

- Non-contact, non-sterile, reusable optical lens; no direct patient-contacting materials.

Intended Users and Use Environment:

- For use by ophthalmologists, optometrists, and other trained professionals in clinical or surgical settings at room temperature.

Warnings and Risk Mitigations:

- None specific to the device itself. Risks related to optical illumination, patient comfort, or examination technique are attributable to the associated ophthalmoscope or slit lamp system and are outside the scope of this device.

Contraindications:

- None known.

Undesirable Side Effects:

- None known when used as intended.

Cleaning & Disinfection

See Cleaning Method 2

