

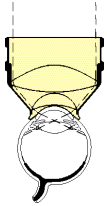


Ocular Mainster PRP 165 Laser Lens

	Product Code 	Static FOV	Dynamic FOV	Image Mag	Laser Spot Mag	Contact Diam	Lens Height	<i>Designed with: Martin A. Mainster, Ph.D., M.D. Kansas City, KS</i>	
	OMRA-PRP-165	165°	180°	.51x	1.96x	17mm	28.1mm		
	*OMRA-PRP-165-2	165°	180°	.51x	1.96x	16mm	27.7mm		

Lens Design

- § The Mainster PRP 165 Laser Lens has an unequalled 165° static field of view, which is the widest available.
- § Its ultrasharp aspheric optics provide exquisite fundus detail and distortion free laser beam transmission.
- § Its LASERLIGHT® HD anti-reflective coatings are optimized for argon, dye, krypton and diode photocoagulators.
- § Has a SECUREFIT® flange for easy lens manipulation to treat the far periphery.
- § Access the retinal periphery with unparalleled ease to treat proliferative diabetic retinopathy, neovascular retinal vein occlusions or retinal breaks.
- § It is an excellent lens to view and treat through small pupils and opaque media.
- *No methylcellulose is required during routine eye examinations on the OMRA-PRP-165-2 style.

Technique

- § Mainster-series lenses are optimized for the most common retinal applications. As with any new device, there is a brief learning period before lens use becomes instinctive. The following approach works well in most situations:
 - § Keep the slit lamp arm in the central position so that illumination, observation and the laser beam (when used) are lined up parallel to each other.
 - § Start with low slit lamp magnification.
 - § Apply gonioscopic solution to the contact lens element and place it on the patient's cornea.
 - § Move the slit lamp forward until a red reflex, and then a retinal image, comes into view.
 - § Optimize the image by tilting the lens on the patient's cornea (up, down, left, right).
 - § Avoid the natural tendency to let the front surface of the lens drop down.
 - § Once the retinal image is seen clearly, increase slit lamp magnification to obtain the desired magnification for your retinal application.
 - § Keep illumination as dim as possible and the slit lamp beam as narrow and short as possible to decrease back-scattered slit lamp light that can decrease image contrast and the quality of your retinal view.

Caution

English: To avoid excessive energy to the crystalline lens, laser spot settings of greater than 275 microns are not recommended.

Bulgarian: За да избегнете излишно подаване на енергия към лещата, не се препоръчва настройване на лазерния лъч на повече от 275 микрона.

Czech: Aby se zabránilo nadměrnému působení energie na krystalické čočky, nastavení velikosti laserové stopy větší než 275 mikronů se nedoporučuje.

Danish: Overdreven energi på krystallinserne bør undgås og derfor er det ikke anbefalesesværdigt at benytte laserprikindstillinger, der er større end 275 mikron.

Dutch: Om te veel energie op de kristallens te voorkomen, worden laserspotinstellingen groter dan 275 microns niet aanbevolen.

French: Pour éviter toute énergie excessive sur le cristallin, les paramètres du point laser supérieurs à 275 microns sont déconseillés.

German: Um übermäßige Energieeinwirkung auf die Linse zu vermeiden, wird von Laserspotinstellungen von mehr als 275 Mikrometer abgeraten.

Greek: Για να αποφευχθεί η υπερβολική ενέργεια στον κρυστάλλινο φακό, οι ρυθμίσεις για σημείο λέιζερ μεγαλύτερο των 275 micron δεν συνιστώνται.

Hungarian: A kristálylencsét érő túlzott energia-behatás kivedése érdekében nem javasolt 275 mikrométer feletti lézerfolt beállítás használata.

Italian: Per evitare di applicare un'energia eccessiva alla lente cristallina, sono sconsigliate impostazioni dello spot laser superiori a 275 micron.

Latvian: Lai izvairītos no pārmērīgas enerģijas pievadīšanas acs lēcai, nav ieteicami lielāki lāzera stara laukuma izmēri par 275 mikroniem.

Lithuanian: Energijos pertekliui į kristalinius lęšius išvengti, nerekomenduojami daugiau nei 275 mikronų lazeriniai įtvarai.

Polish: Aby uniknąć oddziaływania zbyt wysokiej energii na soczewki, zaleca się, aby nie stosować ustawień wiązki laserowej powyżej 275 mikronów.

Slovak: Odporúča sa používať nastavenie veľkosti laserového lúča väčšie ako 275 mikrometrov. Predíde sa nadmernému pôsobeniu energie na kryštalickú šošovku.

Spanish: Para evitar un exceso de energía al cristalino, no se recomiendan posiciones del spot láser mayores que 275 micrones.

Swedish: Undvik hög energi på kristallinser med laserpunktinställningar över 275 mikron, som inte rekommenderas.

Romanian: Pentru a evita energia în excess asupra lentilei cristaline, nu sunt recomandate reglaje ale spotului laser mai mari de 275 de microni.

Portuguese: Para evitar um excesso de energia para a lente cristalina, não se recomendam definições do ponto laser superiores a 275 micrones.

RETINA LENS COMPARISON CHART

Lens	PRP 165	Wide Field	PDT 1.6X	ProRetina 120 PB ⁽³⁾	Reichel-Mainster 1X	Reichel-Mainster 2X	(Standard) Focal/ Grid ⁽⁴⁾	High Mag
Static Field of View	165°	118°	120°	120°	102°	117°	90°	75°
Dynamic Field of View	180°	127°	133°	136°	133°	142°	121°	88°
Image Magnification	.51x	.68x	.63x	.50x	.95x	.50x	.96x	1.25x
Laser Spot Magnification Factor ⁽²⁾	1.96X	1.50X	1.60X	2.00X	1.05X	2.00X	1.05X	.80X

Retinal Disorder ⁽¹⁾	Procedure	+++ Optimal ++ Very useful + Useful - Not useful							
NVD, NVE or NVI	PRP, Clear Media	+++	++	++	++	++	++	+	-
NVD, NVE or NVI	PRP, Vitreous Hemorrhage	++	+++	+++	+++	++	+++	+	-
Macular Edema	Focal + Grid	+	+	+	+	+++	++	+++	++
CNV in ARMD or OHS	Focal	-	-	-	-	+++	-	+++	+++
	PDT, TTT	+	+++	+++	+	+++	+++	+++	+++
Retinal Holes	Peripheral	+++	+	+	+	+	+	-	-

⁽¹⁾ NVD, NVE, NVI: neovascularization - disc, retinal 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. Note that "x" and "X" are used for image magnification and laser spot magnification, respectively.

⁽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.

Cleaning

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

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		
	Minimum exposure time = 20 minutes		Recommended exposure time = 10 minutes
CAUTION To avoid damage to the lens, do not exceed recommended exposure time.			

Then: Rinse lens *thoroughly* to remove disinfection solution.
 3 cycles of 1 minute, with cool or tepid water is recommended.
 Dry carefully and place in a dry storage case.

NOTE This lens is known to be compatible with: Asepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, H₂O₂ - 3%, and Opti-Cide.

CAUTION If used on an ulcerated cornea, lens must be **STERILIZED** before next procedure.

Sterilizing

AUTOCLAVE	STERRAD	STERIS SYSTEM 1	ETO	ETO Parameters		
No	No	Yes	Yes	Minimum Time	Temperature	Aeration Time
		Per manufacturer instructions	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.

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

