
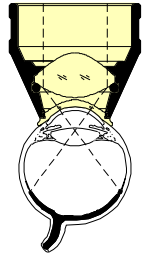


Ocular Reichel-Mainster 2X Retina Laser Lens

	Product Code	Static FOV	Dynamic FOV	Image Mag	Laser Spot Mag	Contact Diam	Lens Height	<i>Designed with:</i> <i>Elias Reichel, M.D.,</i> <i>Boston, MA</i> <i>Martin A. Mainster,</i> <i>Ph.D., M.D.</i> <i>Kansas City, KS</i>	
	ORMR-2X *ORMR-2X-2 CE	117°	142°	.5x	2X	16.5mm	27.5mm		
		117°	142°	.5x	2X	15.5mm	27mm		

Lens Design

- § The Reichel-Mainster 2X Retina Lens has superior optical resolution for detecting subtle fundus details such as retinal thickening and serous detachments.
 - § Outstanding imaging performance through hazy ocular media.
 - § Its broad field of view provides versatility for focal, grid and panretinal photocoagulation.
 - § The Reichel-Mainster lens is ideal for transpupillary thermotherapy and photodynamic therapy and for treating choroidal neovascularization, diabetic retinopathy and retinal vascular occlusion.
- *No methylcellulose is required during routine eye examinations on the ORMR-2X-2 style.

Technique

- § As with any indirect ophthalmoscopy contact lens, some time is needed to become familiar with the Reichel-Mainster retina lens. Suggestions for use are:
 - § Use the slit lamp with its illumination and observation arms lined up so that illumination and observation are parallel.
 - § Use a vertical slit beam with the illumination beam as narrow and short as possible to minimize back-scattered slit lamp light that can decrease image contrast.
 - § Use slit lamp magnification between 5x and 12x.
 - § Tilt the lens on the patient's cornea to select your viewing area and optimize image clarity and stereoscopic view.
 - § Keep the front surface of the lens perpendicular to the viewing axis and the laser beam.
 - § Have the patient turn their eye slightly for larger changes in viewing area location.
- § Since this lens presents an image in air rather than within the lens, the slit lamp must be moved further back from the patient's eye, as compared with conventional lenses. It is sometimes helpful to start by using the lowest slit lamp magnification with the lens centered in the field of view. Then move the slit lamp away from the patient until the image is acquired.

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. Predídte sa nadmernému pôsobeniu energie na kryštalicú 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 and Disinfection

See Cleaning Method 1



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