
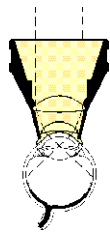


Ocular Mainster ProRetina 120 PB Laser Lens

	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>	
	OPR-120 *OPR-120-2 CE	120°	136°	.50x	2.00X	16mm	35.5mm		
		120°	136°	50x	2.00X	14mm	35mm		

Lens Design

- § The ProRetina 120 PB provides an ideal balance between magnification and field of view for panretinal photocoagulation, particularly in patients with hazy ocular media or mild vitreous hemorrhage.
- § The ProRetina's tubular structure simplifies treating patients with prominent brows and allows easy lens manipulation to examine the retinal periphery.
- § Ocular's unique optical design decreases light reflections.
- § Aspheric optics ensure distortion-free laser beam transmission to image edges across a broad 120° field of view.
- *No methylcellulose is required during routine eye examinations on the OPR-120-2 style.

Technique

- § As with any indirect ophthalmoscopy contact lens, some time is needed to become familiar.
- § 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 300 microns are not recommended.

Bulgarian: За да избегнете излишно подаване на енергия към лещата, не се препоръчва настройване на лазерния лъч на повече от 300 микрона. **Czech:** Aby se zabránilo nadměrnému působení energie na krystalické čočky, nastavení velikosti laserové stopy větší než 300 mikronů se nedoporučuje. **Danish:** Overdreven energi på krystallinserne bør undgås og derfor er det ikke anbefalelsesværdigt at benytte laserprikindstillinger, der er større end 300 mikron. **Dutch:** Om te veel energie op de kristallens te voorkomen, worden laserspotinstellingen groter dan 300 microns niet aanbevolen. **French:** Pour éviter toute énergie excessive sur le cristallin, les paramètres du point laser supérieurs à 300 microns sont déconseillés. **German:** Um übermäßige Energieeinwirkung auf die Linse zu vermeiden, wird von Laserspotinstellungen von mehr als 300 Mikrometer abgeraten. **Greek:** Για να αποφευχθεί η υπερβολική ενέργεια στον κρυστάλλινο φακό, οι ρυθμίσεις για σημείο λέιζερ μεγαλύτερο των 300 micron δεν συνιστώνται. **Hungarian:** A kristálylencsét érő túlzott energia-behatás kivedése érdekében nem javasolt 300 mikrométer feletti lézerfolt beállítás használata. **Italian:** Per evitare di applicare un'energia eccessiva alla lente cristallina, sono sconsigliate impostazioni dello spot laser superiori a 300 micron. **Latvian:** Lai izvairītos no pārmērīgas enerģijas pievadīšanas acs lēcai, nav ieteicami lielāki lāzera stara laukuma izmēri par 300 mikroniem. **Lithuanian:** Energijos pertekliui į kristalinius lęšius išvengti, nerekomenduojami daugiau nei 300 mikronų lazeriniai įtvarai. **Polish:** Aby uniknąć oddziaływania zbyt wysokiej energii na soczewki, zaleca się, aby nie stosować ustawień wiązki laserowej powyżej 300 mikronów. **Slovak:** Odporúča sa používať nastavenie veľkosti laserového lúča väčšie ako 300 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 300 micrones. **Swedish:** Undvik hög energi på kristallinser med laserpunktinställningar över 300 mikron, som inte rekommenderas. **Romanian:** Pentru a evita energia în exces asupra lentilei cristaline, nu sunt recomandate reglaje ale spotului laser mai mari de 300 de microni. **Portuguese:** Para evitar um excesso de energia para a lente cristalina, não se recomendam definições do ponto laser superiores a 300 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 & Disinfection	
See Cleaning Method 1	



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