See the Difference
All lenses are not the same; different lenses will not deliver the same image quality. Ensure you get the highest quality lenses to deliver the highest resolution, distortion-free imaging. The image below represents an actual side by side comparison of a Volk 20D lens compared with a non-Volk lens over a 2mm grid. The photo is not retouched.

Our Promise
Volk is known worldwide as the premier designer and manufacturer of the highest quality ophthalmic lenses. The first aspheric indirect ophthalmoscopy lens was developed by Dr. David Volk 50 years ago. This led to the patented, double aspheric designs of the 20D, 78D and 90D lenses, the leading standards in the ophthalmic industry.

Continual improvement saw the evolution and development of the 2nd generation – the Super Series lenses, to the unsurpassed imaging you can achieve today, with our 3rd generation Digital Series Lenses.

Volk’s unmatched image quality can be appreciated across our comprehensive range of imaging products, including gonio lenses, direct and indirect laser lenses and a full range of surgical imaging products.

Laser Delivery
All Volk Lenses are suitable for Laser Delivery.

Lens Care
For Lens Care, disinfection and sterilization instructions refer to www.volk.com

How to Contact Volk

on the internet
www.volk.com

phone
440-942-6161
toll-free in the USA
800-345-8655

fax
440-942-2257

mail
Volk Optical Inc.
7893 Enterprise Drive
Mentor, Ohio 44060
USA

www.volk.com
Visit Volk online to get the information you need to review, compare and order your lenses online. It uses computer animation to facilitate virtual trials and comparisons of Volk lenses with technical specifications, application information and usage details. Choosing the right lens is further simplified with direct side by side comparisons of lenses’ range, static field of view and Doctor’s View.

An SSL secure certificate guarantees secure transactions over the Internet, protecting your privacy for on-line purchases. The site’s improved distributor locator helps you quickly find your closest Authorized Volk dealer. Special offers and promotional pricing are also available on the site.
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Classilc Indirect BIO Lenses

In 1956, aspheric ophthalmic lenses for subnormal vision were developed by Dr. David Volk. He found that an aspheric surface corrected the aberrations present in more common spherical lenses.

Several developments occurred with the aspheric lens designs through the years, delivering far superior imaging for BIO examinations. In 1982 all Volk lenses for indirect ophthalmoscopy were redesigned with both surfaces aspheric, providing a substantial improvement in image quality.

The 20D and other Volk BIO lenses have been known as the industry standard for decades, and are still widely used in every corner of the world today.

<table>
<thead>
<tr>
<th>BIO Lenses</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag. Factor</th>
<th>Working Distance</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macula Plus® 5.5</td>
<td>36° / 43°</td>
<td>5.50x</td>
<td>.18x</td>
<td>80mm</td>
<td>Ultra-high resolution viewing of posterior pole</td>
</tr>
<tr>
<td>14D Large</td>
<td>36° / 47°</td>
<td>4.30x</td>
<td>.23x</td>
<td>75mm</td>
<td>High magnification viewing of posterior pole</td>
</tr>
<tr>
<td>15D Large</td>
<td>36° / 47°</td>
<td>4.11x</td>
<td>.24x</td>
<td>72mm</td>
<td>High magnification viewing of posterior pole</td>
</tr>
<tr>
<td>20D Large</td>
<td>46° / 60°</td>
<td>3.13x</td>
<td>.32x</td>
<td>50mm</td>
<td>General diagnosis &amp; treatment</td>
</tr>
<tr>
<td>Pan Retinal® 2.2</td>
<td>56° / 73°</td>
<td>2.68x</td>
<td>.37x</td>
<td>40mm</td>
<td>General diagnosis &amp; treatment</td>
</tr>
<tr>
<td>25D Large</td>
<td>52° / 68°</td>
<td>2.54x</td>
<td>.39x</td>
<td>38mm</td>
<td>Median field diagnosis &amp; treatment</td>
</tr>
<tr>
<td>28D Large</td>
<td>53° / 69°</td>
<td>2.27x</td>
<td>.44x</td>
<td>33mm</td>
<td>Small pupil diagnosis &amp; treatment</td>
</tr>
<tr>
<td>30D Small</td>
<td>46° / 60°</td>
<td>2.10x</td>
<td>.48x</td>
<td>30mm</td>
<td>Small pupil lens for ease of use within the orbit</td>
</tr>
<tr>
<td>30D Large</td>
<td>58° / 75°</td>
<td>2.15x</td>
<td>.47x</td>
<td>30mm</td>
<td>Small pupil diagnosis &amp; treatment</td>
</tr>
<tr>
<td>40D Large</td>
<td>69° / 90°</td>
<td>1.67x</td>
<td>.6x</td>
<td>20mm</td>
<td>Pediatric ophthalmoscopy / veterinary apps.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digital BIO Lenses</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag. Factor</th>
<th>Working Distance</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital ClearMag</td>
<td>38° / 49°</td>
<td>3.89x</td>
<td>.26x</td>
<td>60mm</td>
<td>For detailed optic disc and posterior pole examination</td>
</tr>
<tr>
<td>Digital ClearField</td>
<td>55° / 72°</td>
<td>2.79x</td>
<td>.36x</td>
<td>37mm</td>
<td>For mid and far peripheral retinal viewing</td>
</tr>
</tbody>
</table>
Macula Plus® 5.5
Primary Application – Ultra High Resolution Viewing of the Posterior Pole
- Excellent stereo imaging for diagnosis of macular abnormalities
- High magnification facilitates examination of geriatric patients
- Lens adapter provides stability with extended working distance

Product code: VMP5.5

14D
Primary Application – High Magnification Viewing of the Posterior Pole
- High magnification provides excellent imaging of the macular and optic disc
- Detailed optic disc views facilitate glaucoma screening examination

Product code: V14LC

15D
Primary Application – High Magnification Viewing of the Posterior Pole
- High magnification provides excellent imaging of the macular and optic disc
- Detailed optic disc views facilitate glaucoma screening examination

Product code: V15LC

20D
Primary Application – Industry standard general diagnostic lens
- Balance of magnification and field of view for general diagnosis
- Available in AutoClave sterilizable (ACS®) Design (see page 26) - (black ring only)

Product code: V20LC

Available in 7 different colors (shades may vary)
Pan retinal® 2.2
Primary Application – Excellent for General Diagnosis and Treatment
• Balance of magnification and field of view for general diagnosis
• Optimized design facilitates examination through small pupils

Available in 7 different colors
(shades may vary)

Product code: VPRC

25D
Primary Application – Median Field Diagnosis and Treatment
• Lower magnification decreases working distance
• Smaller diameter facilitates manipulation within the orbit

Product code: V25LC

28D
Primary Application – Ideal for fundus scanning
• High resolution provides excellent fundus imaging
• Excellent for small pupil diagnosis and treatment
• Available in AutoClave sterilizable (ACS®) Design (see page 26) - (black ring only)

Product code: V28LC

30D Small
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment
• Optical design delivers high resolution views through a small pupil
• Small profile lens for ease of use within the orbit during examination

Product code: V30SC
**30D**

- Primary Application – Small Pupil and Pediatric Diagnosis and Treatment
  - Optical design delivers high resolution views through a small pupil
  - Short working distance delivers wide field of view

Product code: V30LC

**40D**

- Primary Application – Small Pupil and Pediatric Diagnosis and Treatment
  - Widest field of view of any BIO lens delivers high resolution views through a small pupil
  - Can be used at a slit lamp to provide ultra high magnification views of the posterior pole

Product code: V40LC

---

**Digital Series Indirect BIO Lenses**

Key benefits:

- Low Dispersion glass delivers enhanced resolution
- Reduced ring diameter and working distance facilitate lens manipulation
- Advance A/R coating minimizes reflections and glare.

**Digital ClearMag**

- Primary Application – Highest Resolution High Magnification Optic Disc and Posterior Pole Examination
- Upgrade for your 14D/15D lens

Product code: VDGTLCM

**Digital ClearField**

- Primary Application – Highest Resolution Pan Retinal Examination. Great for small pupils.
- Upgrade for your 20D/Pan Retinal® 2.2

Product code: VDGTLCF

Available in 7 different colors (shades may vary)
In 1956, aspheric ophthalmic lenses for subnormal vision were developed by Dr. David Volk. He found that an aspheric surface corrected the aberrations present in more common spherical lenses.

Several developments occurred throughout the years, leading up to 1982 when all Volk lenses for indirect ophthalmoscopy were redesigned with both surfaces aspheric, providing a substantial improvement in image quality.

A series of indirect ophthalmoscopy lenses was developed, resulting in the choice of the 90 Diopter lens as the most practical for indirect ophthalmoscopy with the slit lamp. The Volk 60D and 90D lenses were commercialized providing a variety of characteristics; magnification, field of view and undilated pupil examination.

The 60D and 90D lenses have been known as the industry standard for decades, having revolutionized the slit lamp examination in the 1970s.

<table>
<thead>
<tr>
<th>Classic</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot</th>
<th>Working Distance</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>60D Classic</td>
<td>68° / 81°</td>
<td>1.15x</td>
<td>.87x</td>
<td>13mm</td>
<td>High magnification views of the posterior pole</td>
</tr>
<tr>
<td>78D Classic</td>
<td>81° / 97°</td>
<td>.93x</td>
<td>1.08x</td>
<td>8mm</td>
<td>General diagnosis and treatment</td>
</tr>
<tr>
<td>90D Classic</td>
<td>74° / 89°</td>
<td>.76x</td>
<td>1.32x</td>
<td>7mm</td>
<td>General diagnosis / small pupil examinations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Super Series</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot</th>
<th>Working Distance</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super 66®</td>
<td>80° / 96°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>11mm</td>
<td>High Resolution viewing of the posterior pole</td>
</tr>
<tr>
<td>SuperField®</td>
<td>95° / 116°</td>
<td>.76x</td>
<td>1.3x</td>
<td>7mm</td>
<td>General retinal scanning situations</td>
</tr>
<tr>
<td>Super VitreoFundus®</td>
<td>103° / 124°</td>
<td>.57x</td>
<td>1.75x</td>
<td>4-5mm</td>
<td>Wide field retinal scanning and small pupil exams (3-4 mm)</td>
</tr>
<tr>
<td>SuperPupil® XL</td>
<td>103° / 124°</td>
<td>.45x</td>
<td>2.2x</td>
<td>4mm</td>
<td>Examination through small pupils (2-3mm)</td>
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<tr>
<th>Digital Series</th>
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<tr>
<td>Digital High Mag®</td>
<td>57° / 70°</td>
<td>1.30x</td>
<td>.77x</td>
<td>13mm</td>
<td>Highest resolution and magnification imaging of the posterior pole with reduced glare and reflections.</td>
</tr>
<tr>
<td>Digital 1.0x Imaging Lens</td>
<td>60° / 72°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>12mm</td>
<td>High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography.</td>
</tr>
<tr>
<td>Digital Wide Field®</td>
<td>103° / 124°</td>
<td>.72x</td>
<td>1.39x</td>
<td>4-5mm</td>
<td>High resolution, wide field retinal scanning and reduced glare and reflections.</td>
</tr>
</tbody>
</table>
**60D**

Primary Application – High Magnification Views of the Posterior Pole
- High magnification lens for detailed optic disc and macula imaging
- Ideal diameter for use in the orbital area

Product code: V60C

**78D**

Primary Application – General Diagnosis and Laser Treatment
- Ideal balance of magnification and field of view
- Optimally designed for use within range of motion of all slit lamps

Product code: V78C

**90D**

Primary Application – General Diagnosis and Small Pupil Examinations
- Original 90D lens started the slit lamp fundus examination revolution
- Small diameter ring is ideal for dynamic fundoscopy
- Outstanding general diagnostic lens, even through small pupils

Product code: V90C

Available in 7 different colors (shades may vary)
Our drive to improve indirect imaging at the slit lamp led us to develop our 2nd generation slit lamp lenses. Working with high grade glass types, we reviewed and improved the double aspheric designs which were so successful in the classic 90D, 78D and 60D lenses, to bring the ‘Super Series’. A group of 4 lenses was developed to deliver wide field, high magnification and specialty features such as unsurpassed small pupil capabilities – the full diagnostic spectrum.

### Super Series Slit Lamp Lenses

#### 2nd Generation...

#### Classic Field of View

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image</th>
<th>Laser</th>
<th>Working Distance</th>
<th>Primary Application</th>
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<tr>
<td>60D Classic</td>
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</table>

#### Super Series Field of View

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<tr>
<th>Lens</th>
<th>Field of View</th>
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<tbody>
<tr>
<td>Super 66®</td>
<td>80° / 96°</td>
<td>1.0x</td>
<td>1.0x</td>
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<td>High Resolution viewing of the posterior pole</td>
</tr>
<tr>
<td>SuperField®</td>
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<td>1.3x</td>
<td>7mm</td>
<td>General retinal scanning situations</td>
</tr>
<tr>
<td>Super VitreoFundus®</td>
<td>103° / 124°</td>
<td>.57x</td>
<td>1.75x</td>
<td>4-5mm</td>
<td>Wide field retinal scanning and small pupil exams (3-4 mm)</td>
</tr>
<tr>
<td>SuperPupil® XL</td>
<td>103° / 124°</td>
<td>.45x</td>
<td>2.2x</td>
<td>4mm</td>
<td>Examination through small pupils (2-3mm)</td>
</tr>
</tbody>
</table>

#### Digital Series Field of View

<table>
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<tr>
<th>Lens</th>
<th>Field of View</th>
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<th>Laser</th>
<th>Working Distance</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital High Mag®</td>
<td>57° / 70°</td>
<td>1.30x</td>
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<td>13mm</td>
<td>Highest resolution and magnification imaging of the posterior pole with reduced glare and reflections.</td>
</tr>
<tr>
<td>Digital 1.0x Imaging Lens</td>
<td>60° / 72°</td>
<td>1.0x</td>
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<td>12mm</td>
<td>High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography.</td>
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<td>.72x</td>
<td>1.39x</td>
<td>4-5mm</td>
<td>High resolution, wide field retinal scanning and reduced glare and reflections.</td>
</tr>
</tbody>
</table>
Super Series Slit Lamp Lenses

Super 66®
Primary Application – High Magnification Viewing of the Central Retina
• Enables 3D discernment of subtle macular and optic disc detail
• 1.0x magnification simplifies optic disc measurement

Available in 7 different colors (shades may vary)
Product code: VS66

Super Field NC®
Primary Application – Wide Field, Pan Retinal Examination
• ‘Super 90D’. Same magnification with a wider field of view
• Increased working distance compared to competitive fundus lenses

Available in 7 different colors (shades may vary)
Product code: VSFNC

Super VitreoFundus®
Primary Application – Wide Field, Pan Retinal Examination and Small Pupil Capability
• Widest field of view in a non contact lens with views past the vortex
• Excellent small pupil capability through a 3 – 4mm pupil

Product code: VSVF

Super Pupil® XL
Primary Application – Small Pupil Pan Retinal Examination
• Optimal small pupil capability through a pupil as small as 2 - 3mm
• Excellent for diabetic patients with miotic eyes

Product code: VSPXL
The Digital Series are our 3rd generation, double aspheric, non-contact slit lamp lenses. Building on the 'Super Series' lenses with high grade glass, we enhanced our double aspheric designs further with advanced computer modeling. Also, gains in the quality of our A/R coating provided a noticeable reduction in glare and reflections. We found that this helped improve slit lamp photographic imaging. However, photography is not their sole purpose. The Digital Series lenses provide the finest views for all examinations and imaging, enabling discernment of details previously unattainable at the slit lamp.

<table>
<thead>
<tr>
<th>Classic</th>
<th>Field of View</th>
<th>Image Mag.</th>
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<td>General diagnosis / small pupil examinations</td>
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</tbody>
</table>

<table>
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<tr>
<th>Super Series</th>
<th>Field of View</th>
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<td>High resolution, wide field retinal scanning and reduced glare and reflections.</td>
</tr>
</tbody>
</table>
Digital High Mag®
Primary Application – Highest Resolution, High Magnification Imaging of the Central Retina

- Low dispersion™ glass reduces chromatic aberration for extremely high resolution retinal imaging
- High magnification provides topographical views of the nerve fiber layer
- Outstanding stereopsis allows detection of optic disc swelling, cupping and macular serous fluid

Product code: VDGTLHM

Digital 1.0x Imaging Lens
Primary Application – Ultimate Lens for Digital Slit Lamp Photography

- Unique glass surface curves and coating minimize photographic distortion and reflections
- 1.0x magnification simplifies optic disc measurement
- High index, high resolution glass provides improved stereopsis and image clarity

Product code: VDGTL1

Digital Wide Field®
Primary Application – Highest Resolution Pan Retinal Examination

- Ultimate 90D lens with similar magnification and widest field of view past the vortex
- Unique glass surface curves and coating minimize distortion and reflections
- High index glass ensures highest resolution stereo image, even through small pupils

Product code: VDGTLWF
Indirect Contact Laser Lenses

<table>
<thead>
<tr>
<th>Indirect Lenses</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot</th>
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<tbody>
<tr>
<td>H-R Wide Field</td>
<td>160° / 165°</td>
<td>.5x</td>
<td>2.0x</td>
<td>Finest wide field imaging; best lens for diagnosis and PRP</td>
</tr>
<tr>
<td>SuperQuad® 160</td>
<td>160° / 165°</td>
<td>.5x</td>
<td>2.0x</td>
<td>Extreme, wide angle pan-retinal photocoagulation</td>
</tr>
<tr>
<td>QuadrAspheric®</td>
<td>120° / 144°</td>
<td>.51x</td>
<td>1.97x</td>
<td>Wide field diagnosis and treatment of the retina</td>
</tr>
<tr>
<td>PDT Laser Lens</td>
<td>115° / 137°</td>
<td>.67x</td>
<td>1.5x</td>
<td>Photodynamic Therapy</td>
</tr>
<tr>
<td>Equator Plus®</td>
<td>114° / 137°</td>
<td>.44x</td>
<td>2.27x</td>
<td>Small pupil diagnosis and treatment</td>
</tr>
<tr>
<td>TransEquator®</td>
<td>110° / 132°</td>
<td>.7x</td>
<td>1.44x</td>
<td>Mid peripheral diagnosis and grid laser therapy</td>
</tr>
<tr>
<td>Quad Pediatric</td>
<td>100° / 120°</td>
<td>.55x</td>
<td>1.82x</td>
<td>ROP and other pediatric conditions</td>
</tr>
<tr>
<td>Volk Area Centrals®</td>
<td>70° / 84°</td>
<td>1.06x</td>
<td>.94x</td>
<td>High resolution viewing and treatment of the posterior pole</td>
</tr>
<tr>
<td>HR Centrals</td>
<td>74° / 88°</td>
<td>1.08x</td>
<td>.93x</td>
<td>Highest Resolution Viewing and Treatment of the Posterior Pole</td>
</tr>
<tr>
<td>SuperMacula® 2.2</td>
<td>60° / 78°</td>
<td>1.49x</td>
<td>.67x</td>
<td>Ultra-high resolution diagnosis and treatment near the fovea</td>
</tr>
</tbody>
</table>

Note:
Flanged versions provide optimal stability on the cornea.

No flange (NF) versions have a smaller corneal contact area than flanged versions. It is still necessary to use a contact fluid with these versions.

Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.
**Super Quad® 160**
*Primary Application – Extreme Wide Field Examination and Laser Treatment*
- Wide field views for complete retinal imaging out to the ora serrata
- Excellent PRP and other laser treatment capabilities to the far peripheral retina
- Superior design ensures minimized distortion to the extent of the visual field

**H-R Wide Field**
*Primary Application – Widest Field Views of Any Lens for Examination and Laser PRP Treatment*
- Low dispersion glass eliminates distortion, ensuring highest resolution imaging to the ora
- Low profile, reduced size housing simplifies manipulation within the orbit
- Superb upgrade or replacement for the Rodenstock pan fundus lens

**QuadrAspheric®**
*Primary Application – Wide Field Examination and Laser Treatment*
- Optimally sized to maximize maneuverability in the orbit
- High resolution imaging of the peripheral retina with small pupil capability
- Excellent general diagnostic and laser treatment lens

**PDT Laser**
*Primary Application – Photodynamic Therapy*
- Delivers maximum laser spot size for treatment of the choroidal neovascular membranes
- Ideal combination of magnification and field of view to facilitate PDT procedures
- Optimized anti reflective coating for 689 nm wavelength used for PDT procedures

**Equator Plus®**
*Primary Application – Small Pupil Diagnosis and Treatment*
- Optimally sized to maximize maneuverability in the orbit
- High resolution wide field imaging with small pupil capability
- Available in numerous contact options including our exclusive advanced no fluid (ANF+)

**Product codes:**
- Super Quad® 160: VSQUAD160, VSQUAD160NF
- H-R Wide Field: VHRWF
- QuadrAspheric: VQFL, VQFLNF, VQFLANF+
- PDT Laser: VPDT
- Equator Plus: VEPANF+, VEPNF

**Field of View:**
- Super Quad® 160: 160° / 165°
- H-R Wide Field: 160°
- QuadrAspheric: 120° / 144°
- PDT Laser: 115° / 137°
- Equator Plus: 137° / 144°
Trans Equator®
Primary Application – Mid Peripheral Retinal Diagnosis and Focal/Grid laser Therapy
- Wide field of view past the equator for pan retinal imaging and treatment
- Excellent substitute for Rodenstock pan fundus lens
- Available in numerous contact options including our exclusive advanced no fluid (ANF+)

Quad Pediatric
Primary Application – Retinopathy of Prematurity and Pediatric Diagnosis and Treatment
- Patented double aspheric glass optics provide enhanced imaging
- Miniaturized contact diameter ideal for diagnosis and treatment of ROP and other infant conditions
- Excellent for treatment of patients with narrow palpebral fissures

Area Centralis®
Primary Application – High Magnification Viewing and Treatment of the Posterior Pole
- Ideal for focal/grid laser treatment
- High magnification image of the posterior pole with expanded field of view
- Available in numerous contact options including our exclusive advanced no fluid (ANF+)

HR Centralis
Primary Application – Highest Resolution Viewing and Treatment of the Posterior Pole
- Enhanced double aspheric design eliminates distortion and improves stereopsis to the periphery of the view
- Superior high grade, low dispersion glass delivers unsurpassed resolution
- Reduced sized housing facilitates manipulation within the orbit
- Improved capability with pupils as small as 4mm

Super Macula® 2.2
Primary Application – Ultra High Magnification Viewing and Treatment of the Posterior Pole
- Ideal for focal/grid laser treatment
- Highest magnification imaging of the posterior pole of any indirect contact lens
- Excellent for critical evaluation of the optic nerve head and macula
Direct Contact Laser Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centralis Direct®</td>
<td>22° / 26°</td>
<td>.9x</td>
<td>1.11x</td>
</tr>
<tr>
<td>Fundus Laser Lens</td>
<td>35° / 40°</td>
<td>1.25x</td>
<td>.8x</td>
</tr>
<tr>
<td>Fundus 20mm Laser Lens</td>
<td>25° / 30°</td>
<td>1.44x</td>
<td>.7x</td>
</tr>
</tbody>
</table>

Note:
Flanged versions provide optimal stability on the cornea.

Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.

Specialty Treatment Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capsulotomy Lens</td>
<td>na</td>
<td>1.57x</td>
<td>.63x</td>
</tr>
<tr>
<td>MagPlus Iridectomy Lens</td>
<td>na</td>
<td>1.6x</td>
<td>.63x</td>
</tr>
<tr>
<td>Iridectomy Lens</td>
<td>na</td>
<td>1.7x</td>
<td>.58x</td>
</tr>
<tr>
<td>Blumenthal Suturelysis</td>
<td>na</td>
<td>2x - 3x</td>
<td>.50x - .33x</td>
</tr>
</tbody>
</table>

Note:
Capsulotomy and Iridectomy lenses are suitable for argon, diode and YAG laser treatments.
**Centralis Direct®**  
Primary Application – Direct Image Viewing and Treatment of the Posterior Pole  
- High profile design eliminates filament reflection  
- Optimized aspheric corneal contact design for improved fit and maneuverability  
- Available in numerous contact options including our exclusive advanced no fluid (ANF+) flange

Product code: VCD  
VCDANF+

---

**Fundus Laser**  
Primary Application – Direct Image Viewing and Treatment of the Posterior Pole  
- Patented double aspheric glass optics provide enhanced imaging  
- Superior high magnification viewing and treatment of the posterior pole and macula  
- LASER WINDOW® protects imaging element from contamination ensuring precise laser spot placement

Product code: VFUNDUS

---

**Fundus Laser 20mm**  
Primary Application – Direct Image Viewing and Treatment of the Posterior Pole  
- Superior highest magnification viewing and treatment of the posterior pole and macula  
- LASER WINDOW® protects imaging element from contamination ensuring precise laser spot placement  
- Large contact element provides superior stability

Product code: VFUNDUS20
Blumenthal Suturelysis
Primary Application – Suturelysis Procedures
- Unique pointed tip reduces compressive force needed to visualize sutures, reducing patient discomfort
- High magnification enables treatment of deep seated sutures
- Unique design facilitates visualization through thick Tenon’s layer or a subconjunctival hemorrhage

Product code: VBSL

Capsulotomy
Primary Application – Laser Capsulotomy Procedures
- Patented double aspheric glass optics provide enhanced imaging
- Delivers precise focused laser beam placement at the capsular bag
- LASER WINDOW® protects imaging element from contamination ensuring precise laser spot placement

Product code: VCAPS

Mag Plus Iridectomy
Primary Application – Laser Iridotomy Procedures
- Larger offset viewing area delivers superior clarity and resolution with larger laser spot size
- Shallow LASER WINDOW® curves reduce astigmatic distortion
- LASER WINDOW® protects imaging element from contamination ensuring precise laser spot placement

Product code: VMPIRID

Iridectomy
Primary Application – Laser Iridotomy Procedures
- Patented double aspheric glass optics provide enhanced imaging
- Highest magnification imaging of the iris
- LASER WINDOW® protects imaging element from contamination ensuring precise laser spot placement

Product code: VIRID
Gonio Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>Mirror Angles</th>
<th>Image Magnification</th>
<th>Laser Spot Size</th>
<th>Contact Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-1 trabeculum</td>
<td>62°</td>
<td>1.5x</td>
<td>.67x</td>
<td>15mm</td>
</tr>
<tr>
<td>G-1 trabeculum nf</td>
<td>62°</td>
<td>1.5x</td>
<td>.67x</td>
<td>8.4mm</td>
</tr>
<tr>
<td>G-2 trabeculum</td>
<td>60° / 64°</td>
<td>1.5x</td>
<td>.67x</td>
<td>15mm</td>
</tr>
<tr>
<td>G-2 trabeculum nf</td>
<td>60° / 64°</td>
<td>1.5x</td>
<td>.67x</td>
<td>8.4mm</td>
</tr>
<tr>
<td>3 Mirror (no flange)</td>
<td>60° / 66° / 76°</td>
<td>1.06x</td>
<td>.94x</td>
<td>15mm</td>
</tr>
<tr>
<td>3 Mirror (ANF+)</td>
<td>60° / 66° / 76°</td>
<td>1.06x</td>
<td>.94x</td>
<td>18mm</td>
</tr>
<tr>
<td>G-3 goniofundus</td>
<td>60° / 66° / 76°</td>
<td>1.06x</td>
<td>.94x</td>
<td>15mm</td>
</tr>
<tr>
<td>G-3 goniofundus nf</td>
<td>60° / 66° / 76°</td>
<td>1.03x</td>
<td>.97x</td>
<td>11.4mm</td>
</tr>
<tr>
<td>G-3 mini goniofundus nf</td>
<td>60° / 66° / 76°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>9.6mm</td>
</tr>
<tr>
<td>G-4 goniolaser</td>
<td>4 x 64°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>15mm</td>
</tr>
<tr>
<td>G-4 gonio nf</td>
<td>4 x 64°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>8.4mm</td>
</tr>
<tr>
<td>G-4 High Mag</td>
<td>4 x 64°</td>
<td>1.5x</td>
<td>.67x</td>
<td>15mm</td>
</tr>
<tr>
<td>G-4 High Mag nf</td>
<td>4 x 64°</td>
<td>1.5x</td>
<td>.67x</td>
<td>8.4mm</td>
</tr>
<tr>
<td>4 Mirror Mini (ANF+)</td>
<td>4 x 62°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>15mm</td>
</tr>
<tr>
<td>G-6 nf</td>
<td>6 x 63°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>8.4mm</td>
</tr>
<tr>
<td>SLT</td>
<td>1 x 63°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>15mm</td>
</tr>
</tbody>
</table>

Note:
Flanged versions provide optimal stability on the cornea and are suggested for laser treatment use.

No flange (nf) versions have a small corneal contact area and are excellent for diagnostic work. It may not be necessary to use a contact fluid with these versions (G Series Gonio lenses only).

Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.
G-1 trabeculum
Primary Application – Treatment of the Anterior Chamber and Central Retina
• All glass design provides superior clarity and durability compared to acrylic lenses
• Highest magnification of any single mirror Gonio lens
• Flanged version provides stability for trabeculoplasty
• No flange version ideal for gonioscopy

Product code: VG1 (as shown)
VG1NF (no flange)

G-2 trabeculum
Primary Application – Viewing and Treatment of the Anterior Chamber and Central Retina
• Two differently angled mirrors provide broader views of the anterior chamber
• All glass design provides superior clarity and durability compared to acrylic lenses
• Flanged version provides stability for trabeculoplasty
• No flange version ideal for gonioscopy

Product code: VG2 (as shown)
VG2NF (no flange)

3 Mirror
Primary Application – Viewing and Treatment of the Anterior Chamber and Central and Peripheral Fundus
• Viewing mirrors are accurately angled to eliminate gaps in the visualized fundus
• flattest mirror surfaces minimize image distortion
• Exclusive advanced no fluid (ANF+) flange option eliminates need for viscous coupling fluid. (Not recommended for laser procedures.)

Product code:
V3MIR (no flange) (as shown)
V3MIRANF+ (Advance No Fluid)
VU3MIR Diagnostic (no flange) (No Coating)
VU3MIRANF+ Diagnostic (Advance No Fluid - No Coating)

G-3 Goniofundus
Primary Application – Viewing and Treatment of the Anterior Chamber and Central and Peripheral Fundus
• All glass design provides superior clarity and durability compared to acrylic lenses
• Mirrors are accurately angled to eliminate gaps in the visualized fundus
• Flanged version provides stability for trabeculoplasty
• No flange version ideal for gonioscopy

Product code:
VG3 (best design for laser use)
VG3NF (no flange) (as shown)
VG3MININF (no flange) (as shown)

Available in mini version for pediatric and small orbit patients
G-4 Goniolaser
Primary Application – Standard Gonio Lens for Static and Dynamic Gonioscopy
• All glass design provides superior clarity and durability compared to acrylic lenses
• Available in large or small rings or with 2 position handle to suit personal preferences
• Flanged version provides stability for trabeculoplasty
• No flange version ideal for gonioscopy

Product codes:
VG4 (with flange) (as shown) best design for laser use
VG4SNF (no flange) 25.5mm Ring
VG4LNF (no flange) 28.5mm Ring
VG4HAN2 (no-flange) Extended Handle (as shown)

G-4 High Mag
Primary Application – High Magnification Static and Dynamic Gonioscopy
• All glass design provides superior clarity and durability compared to acrylic lenses
• Available in large or small rings or with 2 position handle to suit personal preferences
• Flanged version provides stability for trabeculoplasty
• No flange version ideal for gonioscopy

Product codes:
VG4HMI(with flange) (as shown) best design for laser use
VG4HMSNF (no flange) 25.5mm Ring
VG4HMLNF (no flange) 28.5mm Ring
VG4HMHAN2(no-flange) Extended Handle (as shown)

Mini 4 Mirror
Primary Application – Mini Gonio Lens for Narrow Orbits and Small Anatomies
• Small body and ring for ease of use within the orbit
• Proprietary flange does not require viscous coupling fluid
• Broadband coating reduces reflections and glare and maximizes laser throughput

Product code: VM4ANF+

G-6 Gonio
Primary Application – Static and Dynamic Gonioscopy
• Six closely aligned mirrors eliminate gaps providing a true panoramic view
• More complete mirror structure facilitates positioning and scanning across mirrors
• Tapered lens body design easier to hold within the orbit
• Available with a ring or 2 position handle to suit personal preference
• No flange/fluid design ideal for gonioscopy

Product codes:
VG6LNF (no flange) 28.5mm Ring (as shown)
VG6HAN2 (no flange) Extended Handle (as shown)

Selective Laser Trabeculoplasty (SLT)
Primary Application – SLT procedures and static/dynamic gonioscopy
• Large internally reflective facet provides excellent view of the angle
• 1.0x magnification maintains laser spot size and power density
• Curved upper lens surface ensures laser beam profile remains circular for consistent laser spot placement
• Contact used with coupling fluid ensures stability for laser delivery

Product code: VSLT
Merlin Surgical System

The MERLIN® Surgical System is the finest system for non-contact vitreoretinal procedures. With the pedigree of Volk optics, it delivers unmatched image resolution, superior to any other non-contact system.

It is available in two platforms: a Condensing Lens Assembly (CLA) and Rotational Assembly (RA). The CLA platform includes both automated and manual versions.

Its Lens Positioning Unit positions the lens in alignment with the microscope optical pathway, allowing 360° rotational movement.

Indirect Non-Contact Surgical Lenses

3 lenses are available, all highly suited for repeat steam sterilization without material degradation, maintaining superior optical quality throughout the long life of the lens.

• Wide Angle - allows visualization of the retina out to the ora serrata.
• Small Diameter - increases space for instrument manipulation. Maintains 94% of the field of view of the wide angle lens.
• Mid Field - higher magnification views for detailed imaging of the posterior pole.

See Merlin brochure ML-1005 for more information.
Reinverting Operating Lens System® (ROLS®)

The ROLS unit is used with all surgical microscopes for viewing the retina with contact lenses, non contact systems and the MERLIN® non contact surgical viewing system.

The classic ROLS is a technically advanced panoramic viewing system to provide reinverted images during vitreoretinal surgery, and delivers high resolution, correctly oriented retinal images.

Easily installed on all standard surgical microscopes

A ROLS+ reinverter delivers the added benefit of decreased working distance when switching between a plano/concave lens to a wide field indirect lens, providing a more comfortable working position. Note: when used with an assistant scope, the ROLS+ reinverter may cause the assistant scope to be out of focus on some microscopes.

ROLS ∞ (Infinity)

The ROLS∞ provides superior image quality with minimal image shift. It has a unique feature to allow precise custom alignment with the microscope to minimize and eliminate image shift and vignetting.

It is available in manual and powered versions. The powered version is operated by footswitch to toggle between inverted and correctly oriented views. It may also be switched manually if needed.

Removable magnetic latching handles facilitate cleaning and sterilization

LED indicators show inverted and correctly oriented positions

Removable handles facilitate cleaning and sterilization
## Indirect Surgical Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRX</td>
<td>130° / 150°</td>
<td>.43x</td>
</tr>
<tr>
<td>MiniQuad® XL</td>
<td>112° / 134°</td>
<td>.39x</td>
</tr>
<tr>
<td>MiniQuad®</td>
<td>106° / 127°</td>
<td>.39x</td>
</tr>
<tr>
<td>DynaView</td>
<td>95° / 127°</td>
<td>.39x</td>
</tr>
<tr>
<td>Central Retinal</td>
<td>73° / 88°</td>
<td>.71x</td>
</tr>
<tr>
<td>Super Macula®</td>
<td>64° / 77°</td>
<td>1.03x</td>
</tr>
</tbody>
</table>
**HRX Vit Lens**

*Primary Application – Far Peripheral Indirect Vitreoretinal Procedures*
- High index glass delivers widest field, distortion free retinal views of any surgical lens
- Small profile ring facilitates instrument manipulation and surgical procedures
- Available in standard and patented self stabilizing contact (SSV®) options
- Ideal for retinal detachments and giant retinal tears

*Product code:* VHRXVIT
  VHRXVITSSV (as shown)

**Mini Quad® XL**

*Primary Application – Indirect Viewing and Treatment of Peripheral Retinal Disorders*
- Wide field of view of the entire retina including the ora serrata
- Ideal for retinal detachments and giant retinal tears
- Available in standard and self stabilizing contact (SSV®) options

*Product code:* VMQXLVIT (as shown)
  VMQXLVITSSV

**Mini Quad®**

*Primary Application – Indirect Viewing and Treatment of Peripheral Retinal Disorders*
- Wide field of view of the entire retina including the ora serrata
- Smaller ring facilitates manipulation within the orbit
- Reduced contact size ideal for pediatric examination
- Available in Autoclave Sterilizable design (see page 26)

*Product code:* VMQVIT (as shown)
  VMQVITSSV

**Dyna View**

*Primary Application – Retinopathy of Prematurity*
- Enhanced design provides wide field imaging out to the ora serrata
- Minified housing facilitates extension of instruments
- Reduced contact size ideal for pediatric examination

*Product code:* VDQVIT
Central Retinal
Primary Application – High Magnification Indirect Viewing and Treatment of the Central Retinal
• High resolution, high magnification imaging to the equator
• Ideal for membrane peeling, retinal tears and other small detail procedures
• Available in standard and self stabilizing contact (SSV*) options
• Available in Autoclave Sterilizable design (see page 26)

Product code: VCRLVIT (as shown)
VCRLVITSSV

Super Macula®
Primary Application – Highest Magnification Indirect Viewing and Treatment of the Central Retinal
• High resolution, highest magnification imaging of the central retina
• Ideal for macular holes, epiretinal membranes and submacula surgery
• 2x field of view compared to plano/concave direct image lenses

Product code: VSMACVIT
## Autoclaveable Lenses

### BIO Lenses

<table>
<thead>
<tr>
<th>Lenses</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot</th>
<th>Working Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>20D ACS®</td>
<td>46° / 60°</td>
<td>3.13x</td>
<td>.32x</td>
<td>50mm</td>
</tr>
<tr>
<td>28D ACS®</td>
<td>53° / 69°</td>
<td>2.27x</td>
<td>.44x</td>
<td>33mm</td>
</tr>
</tbody>
</table>

### Indirect Surgical Lenses

<table>
<thead>
<tr>
<th>Lenses</th>
<th>Field of View</th>
<th>Image Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRX ACS®</td>
<td>130° / 150°</td>
<td>.43x</td>
</tr>
<tr>
<td>MiniQuad® ACS®</td>
<td>106° / 127°</td>
<td>.48x</td>
</tr>
<tr>
<td>Central Retinal ACS®</td>
<td>73° / 88°</td>
<td>.71x</td>
</tr>
</tbody>
</table>
20D ACS®
Primary Application – Industry standard autoclaveable general diagnostic lens
• Steam sterilizable for use in a surgical environment
• High quality Permaview glass withstands rigors of repeated sterilization
• High magnification provides excellent views of the optic disc and macula
• Perfectly corrected for field curvature, astigmatism, aberrations and coma

Product code: V20LCACSPV

28D ACS®
Primary Application – Autoclaveable wider field fundus scanning lens
• Steam sterilizable for use in a surgical environment
• High quality Permaview glass withstands rigors of repeated sterilization
• High resolution provides excellent wide field fundus imaging
• Excellent for small pupil diagnosis and treatment

Product code: V28LCACSPV

HRX ACS®
Primary Application – Widest field views for vitreoretinal procedures
• Superior high index glass design ensures widest field views of any vitrectomy lens
• Advanced aspheric design provides unmatched high resolution imaging
• Steam sterilizable for decreased processing time

Product code: VHHRXVITACS (as shown)

Mini Quad® ACS®
Primary Application – Peripheral Indirect Vitreoretinal Procedures
• Steam sterilizable for decreased processing time
• Smaller ring facilitates manipulation within the orbit
• Ideal for retinal detachments and giant retinal tears

Product code: VMOQVITACS

Central Retinal ACS®
Primary Application – High Magnification Indirect Vitreoretinal Procedures
• High resolution, high magnification imaging to the equator
• Steam sterilizable for decreased processing time
• Ideal for membrane peeling, retinal tears and other small detail procedures

Product code: VCRVLVITACS (as shown)
Volk’s HR direct image lenses utilize a high index glass to deliver superior image quality. This robust glass type is highly resistant to the rigors of continued steam sterilization and will not deteriorate or discolor.

These lenses are commonly used with a suture or stabilization ring. Two of the lenses in the group are also available in a no suture ring design. The profiles of these two lenses allows them to stabilize suitably without the need for an additional stabilizing ring.

<table>
<thead>
<tr>
<th>Lenses</th>
<th>Field of View</th>
<th>Image Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR Direct Image 1X</td>
<td>30°</td>
<td>1.0x</td>
</tr>
<tr>
<td>HR Direct Bi-Concave</td>
<td>45° (mid field) 30° (AFX)</td>
<td>0.5x (mid field) 1.0x (AFX)</td>
</tr>
<tr>
<td>HR Direct High Mag</td>
<td>20°</td>
<td>1.4x</td>
</tr>
<tr>
<td>HR Direct 20° Prism</td>
<td>40° (offset 20°)</td>
<td>0.5x</td>
</tr>
</tbody>
</table>
HR Direct 1X
- Primary Application – Direct Image Vitreoretinal Surgery of the Central Retina
- High index glass delivers highest resolution direct image of the central retina
- Highly suited for repeated steam sterilization with no material degradation
- Standard design fits all major suture rings
- Unique optional no stabilizing ring (NSR) design available

Product code: VHRD1XACS
VHRD1XNSRACS

HR Direct Bi-Concave
- Primary Application – Wide Field and AFX (Air Fluid Exchange) Direct Image Vitreoretinal Surgery
- High index glass in a bi-concave design delivers highest resolution imaging for wide field and AFX procedures
- Highly suited for repeated steam sterilization with no material degradation
- Standard design fits all major suture rings

Product code: VHRDBCACS

HR Direct High Mag
- Primary Application – High Magnification Direct Image Vitreoretinal Surgery of the Central Retina
- High index glass delivers highest resolution, high magnification of the central retina
- Highly suited for repeated steam sterilization with no material degradation
- Standard design fits all major suture rings
- Unique optional no stabilizing ring (NSR) design available

Product code: VHRDHMACS
VHRDHMNSRACS

HR Direct 20° Prism
- Primary Application – Off Axis Wide Field Direct Image Vitreoretinal Surgery
- High index glass delivers highest resolution off axis (20°) direct image retinal views
- Improved design delivers wider field (40°) off axis views
- Highly suited for repeated steam sterilization with no material degradation

Product code: VHRD20PACS
Chalam Direct SSV® (ACS®) Lenses
The Chalam SSV® (Self Stabilizing Vitrectomy) contact design eliminates the need for sutures or rings. SSV® Designs developed with K.V. Chalam, MD.

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chalam Flat SSV® (ACS)</td>
<td>30°</td>
<td>.92x</td>
</tr>
<tr>
<td>Chalam High Mag 1.5 SSV® (ACS)</td>
<td>15°</td>
<td>1.5x</td>
</tr>
<tr>
<td>Chalam Mid Field SSV® (ACS)</td>
<td>40°</td>
<td>.50x</td>
</tr>
<tr>
<td>Chalam 15° Prism SSV® (ACS)</td>
<td>30° offset</td>
<td>.90x</td>
</tr>
<tr>
<td>Chalam 30° Prism SSV® (ACS)</td>
<td>30° offset</td>
<td>.90x</td>
</tr>
<tr>
<td>Chalam 45° Prism SSV® (ACS)</td>
<td>30° offset</td>
<td>.90x</td>
</tr>
<tr>
<td>Chalam AFX SSV® (ACS) (Air Fluid Exchange - Air filled eye)</td>
<td>30° offset</td>
<td>.82x</td>
</tr>
</tbody>
</table>
Direct Image Flat (ACS®)
Primary Application – Routine Direct Image Vitreoretinal Surgery of the Central Retina
• Delivers high resolution direct image of the central retina
• Steam sterilizable for decreased processing time

Product code: VFLATSSVACS

Direct Image High Mag (ACS®)
Primary Application – High Magnification Direct Image Vitreoretinal Surgery of the Central Retina
• Delivers high resolution, high magnification direct image of the central retina
• Steam sterilizable for decreased processing time

Product code: VFHMSSVACS

Direct Image Mid Field (ACS®)
Primary Application – Wide Field Direct Image Vitreoretinal Surgery
• Bi-concave design provides widest field available in a direct image lens
• Can be used for air/gas exchange procedures
• Steam sterilizable for decreased processing time

Product code: VMFSSVACS

Direct Image 15° Prism (ACS®)
Primary Application – Off Axis Direct Image Vitreoretinal Surgery
• Design delivers 15° off axis retinal views
• Steam sterilizable for decreased processing time

Product code: VPRISMSVACS
**Direct Image Surgical Lenses**

**Direct Image 30° Prism (ACS®)**

Primary Application – Off Axis Direct Image Vitreoretinal Surgery
- Design delivers 30° off axis retinal views
- Steam sterilizable for decreased processing time

Product code: V30PRISMSSVACS

**Direct Image 45° Prism (ACS®)**

Primary Application – Off Axis Direct Image Vitreoretinal Surgery
- Design delivers 45° off axis retinal views
- Steam sterilizable for decreased processing time

Product code: V45PRISMSSVACS

**Direct Image AFX (ACS®)**

Primary Application – Direct Image Vitreoretinal Surgery During Air Fluid Exchange Procedures
- Delivers high resolution central retinal imaging
- Steam sterilizable for decreased processing time

Product code: VAFXSSVACS
Disposable Direct Image Surgical Lenses

High Resolution Disposable Lenses
Available in 5 popular styles, these lenses provide the retinal views you require of all procedures with direct image vitrectomy lenses. They are fitted with a silicone stabilizing ring, eliminating the need for a suture ring or other lens holding device.

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat</td>
<td>36°</td>
<td>1.0x</td>
</tr>
<tr>
<td>Magnifying</td>
<td>30°</td>
<td>1.5x</td>
</tr>
<tr>
<td>Wide Field</td>
<td>48°</td>
<td>0.5x</td>
</tr>
<tr>
<td>Bi-Concave</td>
<td>25°</td>
<td>0.8x</td>
</tr>
<tr>
<td>30° Prism</td>
<td>33° (offset 30°)</td>
<td>1.0x</td>
</tr>
</tbody>
</table>

Chalam Direct SSV® Disposable Lens
Designs developed with K.V. Chalam, MD.
Self Stabilizing (SSV®) Disposable Lens
The SSV contact design eliminates the need for sutures or rings.

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat SSV® Disposable</td>
<td>30°</td>
<td>.92x</td>
</tr>
</tbody>
</table>
Volk’s disposable lenses deliver high resolution direct image retinal views, in a convenient sterile, single use design. No sterilization is required. They are packaged individually in an easy to use peel pack and boxed in quantities of 10 lenses.

**Disposable Flat (Standard and Self Stabilizing)**
Primary Application – Routine Direct Image Vitreoretinal Surgery of the Central Retina

Product code: VFD10 (standard)
VFLATSSVD10 (self stabilizing)

**Disposable Magnifying**
Primary Application – High Magnification Direct Image Vitreoretinal Surgery of the Central Retina

Product code: VMD10

**Disposable Wide Field**
Primary Application – Wide Field Direct Image Vitreoretinal Surgery

Product code: VWFD10

**Disposable Bi-Concave**
Primary Application – Direct Image Vitreoretinal Surgery During Air Fluid Exchange

Product code: VBCD10

**Disposable 30° Prism**
Primary Application – Off Axis Direct Image Vitreoretinal Surgery

Product code: V30PD10
Pictor Portable Ophthalmic Imager

Volk Pictor is a truly portable digital imaging device that provides a variety of imaging capabilities with two interchangeable modules for ophthalmic examination.

Improved Patient Care - Digital still and video images created with Pictor provide accurate first diagnosis and planning for consistent follow up treatment.

Simple Integration - Pictor is easily adopted into daily examination routines, providing standard jpeg image files for simple image data storage and sharing.

Maximum Portability - Lightweight and portable, Pictor is easily used outside the office to examine convalescing patients and for geriatric or pediatric care.

Superior Versatility - Two easily interchangeable modules provide high-resolution retinal (non-mydriatic) or external eye imaging.

See Pictor brochure ML-1009 for more information
Precision Optical Lens Cleaner
Primary Application – Cleaning of Ophthalmic Lenses
• Absorbent, moistened lint free towelette cleans lenses instantly, free from smudges, haze and water spots
• Ideal for use on Volk lenses, microscope eyepieces, cameras and other precision optical surfaces.
• Packaged in boxes of 24. Bulk case purchase contains 108 boxes
Product code: VPOLC1 (box)
VPOLCCASE (CASE)

Volk Lens Pen®
Primary Application – Dry Cleaning of Coated Ophthalmic Lens Surfaces
• Carbon based cleaning pad wipes away smudges and reduces static build up
• Cost effective device good for 400 – 500 uses
• Conveniently stows away like a pen with a pocket clip
Product code: VLENSPEN

Fundus Lens
Provides high resolution views of the posterior pole. Its upper surface has an AR coating to minimize reflections and glare and maximize laser throughput. The contact surface is conically shaped to facilitate placement and does not require viscous coupling fluid. Its handle is fixed at 45°.

Glass Gonio Lens
Provides high resolution views of the anterior chamber angle structures with 4 equally angled mirrors. Views of the optic nerve and posterior retina can be obtained through the center of the lens. The small contact surface does not require viscous coupling fluid. Its handle may be fixed in 2 positions: straight or at a 45° angle.

Surgical Gonio Lens
Primary Application – Direct views for angle surgical procedures
• Applicable for MIGS procedures
• Lens position can be adjusted relative to the handle: for left hand, right hand or center position
• Sterilizable by either steam autoclave or ethylene oxide (ETO)

Fundus Lens
<table>
<thead>
<tr>
<th>Lens</th>
<th>Part Number</th>
<th>Image Mag.</th>
<th>Contact Diameter</th>
<th>Lens Height</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2mm Fundus</td>
<td>V2MFUNDUS</td>
<td>1.0x</td>
<td>2mm</td>
<td>5mm</td>
<td>76mm</td>
</tr>
<tr>
<td>2mm Gonio</td>
<td>V2MGONIO</td>
<td>1.0x</td>
<td>2mm</td>
<td>11mm</td>
<td>84mm</td>
</tr>
</tbody>
</table>

Surgical Gonio
<table>
<thead>
<tr>
<th>Lens</th>
<th>Image Mag.</th>
<th>Contact Diameter</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical Gonio</td>
<td>1.2x</td>
<td>9.2mm</td>
<td>75mm</td>
</tr>
</tbody>
</table>

Accessories

NOT FOR USE ON SURFACES THAT CONTACT THE EYE.
Accessories

Steady Mount
Primary Application – Precisely Holds and Positions Volk Lenses at the Slit Lamp
• Holds lenses steady at the slit lamp to facilitate photography and routine examinations
• Lens can be positioned, tilted and angled in all planes providing versatility
• Adapts to all slit lamps and holds all Volk lenses ensuring ease of use

Product code: VSM

Suture Ring
Primary Application – Provides a Stable Lens Platform During Vitreoretinal Surgery
• Premium surgical implant grade titanium for optimal durability and ease of sterilization
• Larger radius provides enhanced functionality and safety during use
• Compatible with all Volk direct and indirect contact vitrectomy lenses (except SSV® styles)

Product code: VSR2

Infusion Handle
Primary Application – Infusion of Saline Solution Beneath the Lens During Vitreoretinal Surgery
• Flushes blood and debris providing a clear view during surgery
• Autoclave Sterilizable for decreased processing time
• Ideal for diabetic surgery

Product code: VINFHAN

VitreoLens Handle
Primary Application – Holding and Stabilization of Lenses During Vitreoretinal Surgery
• Holds vitrectomy lenses stably to assist vitreoretinal surgery
• Malleability allows user to bend the handle to suit their preference
• Autoclave Sterilizable for decreased processing time

Product code: VVITHAN-LG (Long Handle) All Vit Lenses Except Mini Quad XL
VVITHAN-MQXL (Used with Mini Quad XL and Super Macula)

Sterilization Tray
Primary Application – Sterilization of Ophthalmic Lenses
• Autoclave safe and approved for use with OTO
• Small tray (2.7” x 1.5” x 1.25”) houses Volk surgical and smaller indirect and slit lamp lenses
• Large tray (6” x 2.5” x 1.25”) houses the largest Volk lenses and accessories including vitrectomy handles

Product code: VSCA (small tray)
VSCB (large tray)
Cases and Personalization

Keep your personal lens sets together with our multi lens cases. Available in two sizes: 3” x 4” for up to 3 lenses or 4” x 6” for up to 6 lenses, almost any combination can be accommodated. Even if a standard case cannot meet your need, we can provide a customized solution for you.

Here are a few examples of some cases and combinations.

To request a multi lens case, copy and fill in this enquiry form and fax to:
Volk Optical Inc. (001) 440 942 2257

Name _________________________________________________________
Address ________________________________________________________
Town/City _______________________________________________________
County/State ____________________________________________________
Post/Zip _______________________________________________________
Country _______________________________________________________
Tel. ___________________________________ Email __________________

Specify lenses you have to put in your multi lens case

Case 1: Case 2:
Lens 1 ____________ Lens 1 ____________
Lens 2 ____________ Lens 2 ____________
Lens 3 ____________ Lens 3 ____________
Lens 4 ____________ Lens 4 ____________
Lens 5 ____________ Lens 5 ____________
Lens 6 ____________ Lens 6 ____________

Engraving
Customize and personalize your lens with Volk’s free engraving service for all lenses you purchase from us. Your lens is a personal possession that will last a lifetime.

To personalize your lens purchase, you can have your lenses engraved with your details.
Patented Double Aspheric Lens Design

All Volk lenses are optically engineered using proprietary computer ray tracing and design criteria. The laser contact lens ray tracing at left shows light rays originating at the illuminated fundus and proceeding through the pupil and cornea to the first contact element. The diverging light bundles are converged and redirected towards the double aspheric imaging lens which further refracts and focuses the rays as a conjugate fundus image in the aerial image plane. From the beginning on the drawing board to final production and sale, each Volk lens is designed and produced to the quality standards that your practice demands.

Contact Options (Gonio Lenses)

Flanged versions provide optimal stability on the cornea and are suggested for laser treatment use.

No flange (NF) versions have a small corneal contact area and are excellent for diagnostic work. It may not be necessary to use a contact fluid with these versions (Gonio lenses only)

Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.

Contact Options (Contact Laser Lenses)

Flanged versions provide optimal stability on the cornea.

No flange (NF) versions have a smaller corneal contact area than flanged versions. It is still necessary to use a contact fluid with these versions.

Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.

Volk Laser / Anti-reflective Coatings and Filters

Most Volk lenses come standard with high efficiency laser / anti-reflective (AR) coatings to optimize laser throughput and to assist in diagnosis by reducing glare in the visible spectrum.

Please Contact Volk for Additional Information on laser coatings
Warranty Information

Warranty Service
If the product fails to function due to defects in either materials or workmanship, Volk will, at its option, either repair or replace the product without charge, subject to the Warranty Limitations.

Warranty Coverage
Volk Optical warrants its Non-contact Slit Lamp & BIO Lenses against defects in materials or workmanship for a period of 10 years from receipt by end user.

Volk Optical warrants its Volk Contact Laser & Diagnostic Lenses against defects in materials or workmanship for a period of 5 years from receipt by end user.

Volk Optical warrants its All GLASS G Series Mirrored Lenses against defects in materials or workmanship for a period of 4 years from receipt by end user.

Volk Optical warrants its standard 3 and 4 Mirror Lenses against defects in materials or workmanship for a period of 1 year from receipt by end user.

Volk Optical warrants its 2mm research lenses (fundus and gonio) against defects in materials or workmanship for a period of 1 year from receipt by end user.

Volk Optical warrants its Pictor digital ophthalmic imaging device against defects in materials or workmanship for a period of 1 year from receipt by end user.

Volk Optical warrants its Optiflex® Surgical Assistant, MERLIN® and ROLS® Reinverter against defects in materials or workmanship for a period of 1 year from receipt by end user.

Volk Optical warrants its Volk Vitrectomy Lenses against defects in materials or workmanship for a period of 1 year from receipt by end user.

Volk Optical warrants its Volk Autoclave Sterilizable (ACS) Vitrectomy and Gonio lenses against defects in materials or workmanship for the lesser of 6 months from receipt by end user or 100 sterilization cycles.

Volk Optical warrants its Volk Power, Contact, Yellow Filter, Retinal Scale and Lid Lens Adapters; VitreoLens Handle®, Infusion Handle & Steady Mount against defects in materials or workmanship for a period of 6 years from receipt by end user.

Please contact Volk Optical for a Return Authorization Number. Customers are responsible for returning products to Volk Optical; 7893 Enterprise Drive; Mentor, OH 44060; U.S.A. We recommend that all returns be insured and be sent by a traceable shipment method. Volk cannot be held responsible for lost shipments.

Warranty Limitations
Warranty service may not be provided without proof the product was purchased from Volk Optical Inc. or an Authorized Volk Distributor.

This warranty becomes null and void if the customer fails to return the product in packaging consistent with the original protective packaging and it results in shipping damage.

This warranty becomes null and void if the customer fails to follow the recommended cleaning, disinfection and sterilization instructions and/or cautions contained in the product instruction manual.

This warranty does not cover service required because of disassembly, unauthorized modifications or service, misuse and abuse.

Warranty repairs will include labor, adjustments and replacements parts. Replacement parts may be remanufactured or contain remanufactured materials.

Limit of Liability
Seller makes no other warranty, express or implied, of the product supplied hereunder, including, without limitation, implied warranties of merchantability and fitness for a particular purpose, and all such warranties are hereby expressly excluded. Seller shall have no liability for loss of profits, or special, incidental, or consequential damages under any circumstances or legal theory, whether based on negligence, breach of warranty, strict liability, tort, contract, or otherwise. Seller shall in no event be liable in respect of this order and/or product delivered on account of this order for any amount greater than that paid to seller on account of this order. The purchaser acknowledges that it is purchasing the goods solely on the basis of the commitments of the seller expressly set forth herein.

If you have questions regarding Volk’s warranty, please contact Volk Optical.

Product Returns
All product returns must be disinfected and/or sterilized prior to return and be accompanied by a Return Authorization Number.
How to Order

Orders within the United States may be placed with an Authorized Volk Distributor or directly with Volk Optical Inc. by mail, fax or phone (1-800-345-8655).

Please provide complete shipping and billing information with your order.

Volk honors Discover, Visa, MasterCard & American Express.

Orders from outside of the United States may be placed with the Authorized Volk Distributor in your region or directly from Volk on our web site. Authorized Distributor contact information is available from Volk.

5 easy ways to order!

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www.volk.com

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800.345.VOLK
440.942.6161

Order by Fax 440.942.2257

Order by Mail
7893 Enterprise Drive
Mentor, Ohio 44060
USA

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