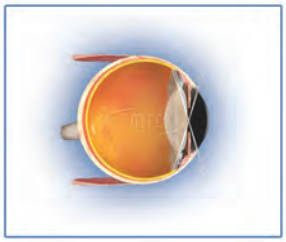
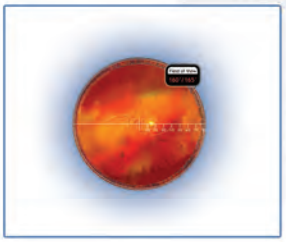
VOLK®
the leader in aspheric optics®

A HALMA COMPANY

The Finest Ophthalmic Imaging

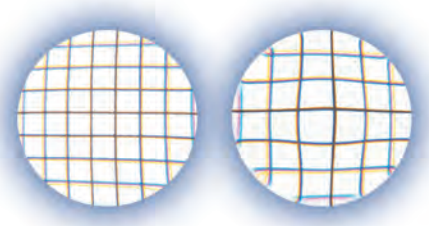





[catalog]
2017

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.



Volk Non - Volk

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 lare, cleaning, disinfection and sterilization instructions refer to www.volk.com/

How to Contact Volk

online
www.volk.com

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

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.

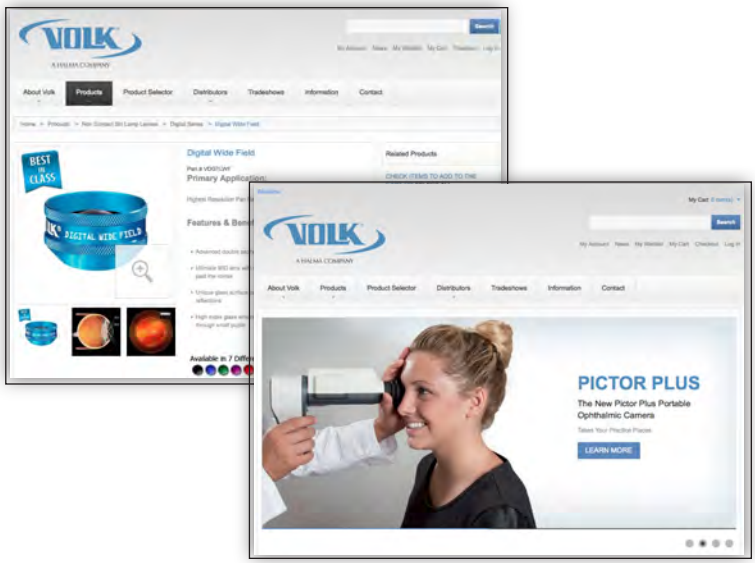


Table of Contents

Classic 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.

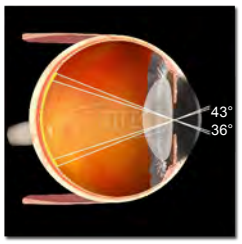
Classic BIO Lenses	Field of View	Image Mag.	Laser Spot Mag. Factor	Working Distance	Primary Application
Macula Plus® 5.5	36° / 43°	5.50x	.18x	80mm	Ultra-high resolution viewing of posterior pole
14D Large	36° / 47°	4.30x	.23x	75mm	High magnification viewing of posterior pole
15D Large	36° / 47°	4.11x	.24x	72mm	High magnification viewing of posterior pole
20D Large	46° / 60°	3.13x	.32x	50mm	General diagnosis & treatment
Pan Retinal® 2.2	56° / 73°	2.68x	.37x	40mm	General diagnosis & treatment
25D Large	52° / 68°	2.54x	.39x	38mm	Median field diagnosis & treatment
28D Large	53° / 69°	2.27x	.44x	33mm	Small pupil diagnosis & treatment
30D Small	46° / 60°	2.10x	.48x	30mm	Small profile lens for ease of use within the orbit
30D Large	58° / 75°	2.15x	.47x	30mm	Small pupil diagnosis & treatment
40D Large	69° / 90°	1.67x	.6x	20mm	Pediatric ophthalmoscopy / veterinary apps.
Digital BIO Lenses	**Field of View**	**Image Mag.**	**Laser Spot Mag. Factor**	**Working Distance**	**Primary Application**
Digital ClearMag	38° / 49°	3.89x	.26x	60mm	For detailed optic disc and posterior pole examination
Digital ClearField	55° / 72°	2.79x	.36x	37mm	For mid and far peripheral retinal viewing

Macula Plus® 5.5

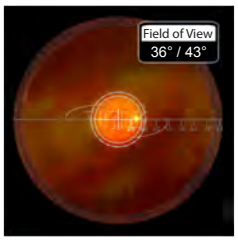
Primary Application – Ultra High Resolution Viewing of the Posterior Pole

- 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



2D View



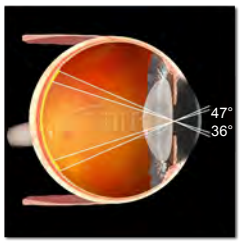
Field of View

14D

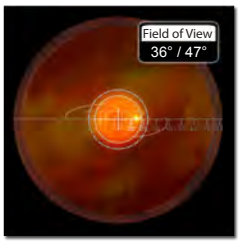
Primary Application – High Magnification Viewing of the Posterior Pole

- High magnification provides excellent imaging of the macular and optic disc
- Detailed optic disc views facilitate glaucoma screening examination

Product code: V14LC



2D View



Field of View

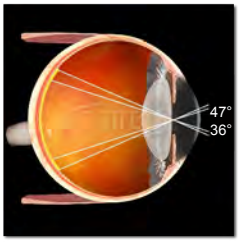
Classic Indirect BIO Lenses

15D

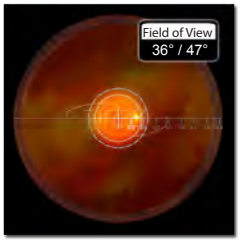
Primary Application – High Magnification Viewing of the Posterior Pole

- High magnification provides excellent imaging of the macular and optic disc
- Detailed optic disc views facilitate glaucoma screening examination

Product code: V15LC



2D View



Field of View

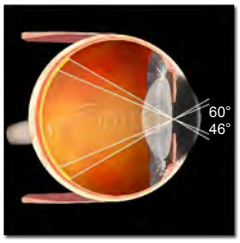
20D

Primary Application – Industry standard general diagnostic lens

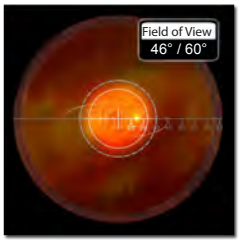
- Balance of magnification and field of view for general diagnosis
- Perfectly corrected for field curvature, astigmatism, aberrations and coma
- Available in AutoClave Sterilizable (ACS) design (see page 26) or Single Use design (see page 37)

Available in 7 different colors
(shades may vary)

Product code: V20LC



2D View



Field of View

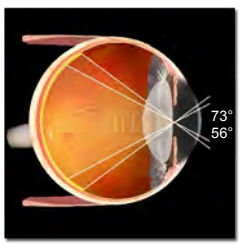
Pan Retinal® 2.2

Primary Application – Excellent for General Diagnosis and Treatment

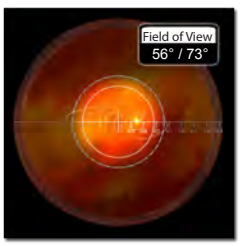
- Balance of magnification and field of view for general diagnosis
- Optimized design facilitates examination through small pupils

Avaliable in 7 different colors
(shades may vary)

Product code: VPRC



2D View



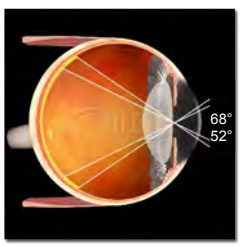
Field of View

25D

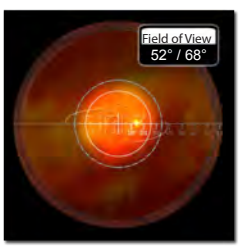
Primary Application – Median Field Diagnosis and Treatment

- Lower magnification decreases working distance
- Smaller diameter facilitates manipulation within the orbit

Product code: V25LC



2D View



Field of View

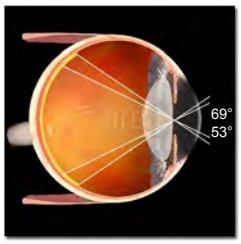
Avaliable in 7 different colors
(shades may vary)

28D

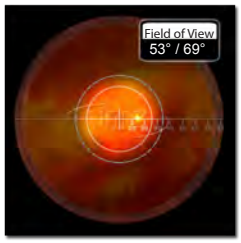
Primary Application – Ideal for fundus scanning

- High resolution provides excellent fundus imaging
- Excellent for small pupil diagnosis and treatment
- Available in AutoClave sterilizable (ACS®) design (see page 26) or Single Use design (see page 37)

Product code: V28LC



2D View



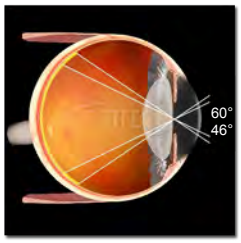
Field of View

30D Small

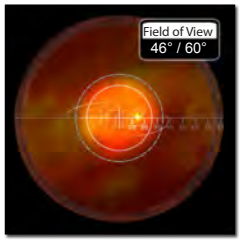
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment

- 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



2D View



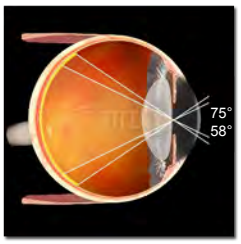
Field of View

30D

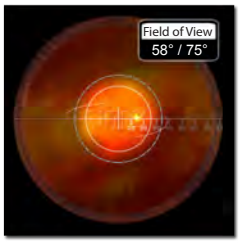
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment

- Optical design delivers high resolution views through a small pupil
- Short working distance delivers wide field of view

Product code: V30LC



2D View



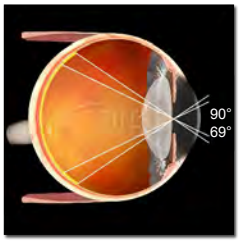
Field of View

40D

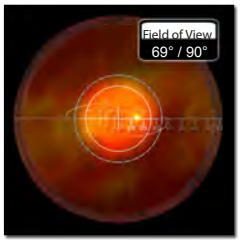
Primary Application – Small Pupil and Pediatric Diagnosis and Treatment

- 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



2D View



Field of View

Digital Series Indirect BIO Lenses

In the Volk spirit of improvement, our 3rd generation, 'Digital Series' BIO lenses were developed from the previous generation BIO lenses, in a similar fashion to the Digital Series slit lamp lenses. The goal: to deliver enhanced resolution imaging with the indirect ophthalmoscope.

Working with a high grade glass, we looked at all aspects of their double aspheric designs with advanced computer modeling techniques. We realized improvements in all aspects of the BIO lens capabilities, ultimately delivering the best image quality attainable for indirect ophthalmic exams.

Classic BIO Lenses	Field of View	Image Mag.	Laser Spot Mag. Factor	Working Distance	Primary Application
Macula Plus® 5.5	36° / 43°	5.50x	.18x	80mm	Ultra-high resolution viewing of posterior pole
14D Large	36° / 47°	4.30x	.23x	75mm	High magnification viewing of posterior pole
15D Large	36° / 47°	4.11x	.24x	72mm	High magnification viewing of posterior pole
20D Large	46° / 60°	3.13x	.32x	50mm	General diagnosis & treatment
Pan Retinal® 2.2	56° / 73°	2.68x	.37x	40mm	General diagnosis & treatment
25D Large	52° / 68°	2.54x	.39x	38mm	Median field diagnosis & treatment
28D Large	53° / 69°	2.27x	.44x	33mm	Small pupil diagnosis & treatment
30D Small	46° / 60°	2.10x	.48x	30mm	Small profile lens for ease of use within the orbit
30D Large	58° / 75°	2.15x	.47x	30mm	Small pupil diagnosis & treatment
40D Large	69° / 90°	1.67x	.6x	20mm	Pediatric ophthalmoscopy / veterinary apps.
Digital BIO Lenses	**Field of View**	**Image Mag.**	**Laser Spot Mag. Factor**	**Working Distance**	**Primary Application**
Digital ClearMag	38° / 49°	3.89x	.26x	60mm	For detailed optic disc and posterior pole examination
Digital ClearField	55° / 72°	2.79x	.36x	37mm	For mid and far peripheral retinal viewing

Key benefits :

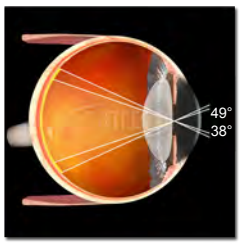
- Low Dispersion glass delivers enhanced resolution
- Reduced ring diameter and working distance facilitate lens manipulation
- Advance A/R coating minimizes reflections and glare.

Digital ClearMag

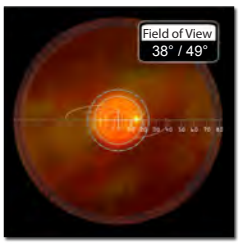
Primary Application – Highest Resolution High Magnification Optic Disc and Posterior Pole Examination

- Upgrade for your 14D/15D lens

Product code: VDGTLCM



2D View



Field of View

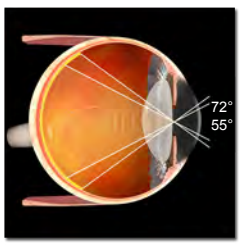
Avaliable in 7 different colors
(shades may vary)

Digital ClearField

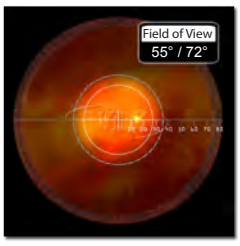
Primary Application – Highest Resolution Pan Retinal Examination. Great for small pupils.

- Upgrade for your 20D/Pan Retinal® 2.2

Product code: VDGTLCF



2D View



Field of View

Classic Slit Lamp 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 through 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.

Classic	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
60D Classic	68° / 81°	1.15x	.87x	13mm	High magnification views of the posterior pole
78D Classic	81° / 97°	.93x	1.08x	8mm	General diagnosis and treatment
90D Classic	74° / 89°	.76x	1.32x	7mm	General diagnosis / small pupil examinations
Super Series	**Field of View**	**Image Mag.**	**Laser Spot**	**Working Distance**	**Primary Application**
Super 66®	80° / 96°	1.0x	1.0x	11mm	High Resolution viewing of the posterior pole
SuperField®	95° / 116°	.76x	1.3x	7mm	General retinal scanning situations
Super VitreoFundus®	103° / 124°	.57x	1.75x	4-5mm	Wide field retinal scanning and small pupil exams (3-4 mm)
SuperPupil® XL	103° / 124°	.45x	2.2x	4mm	Examination through small pupils (2-3mm)
Digital Series	**Field of View**	**Image Mag.**	**Laser Spot**	**Working Distance**	**Primary Application**
Digital High Mag®	57° / 70°	1.30x	.77x	13mm	Highest resolution and magnification imaging of the posterior pole with reduced glare and reflections.
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	12mm	High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography.
Digital Wide Field®	103° / 124°	.72x	1.39x	4-5mm	High resolution, wide field retinal scanning and reduced glare and reflections.

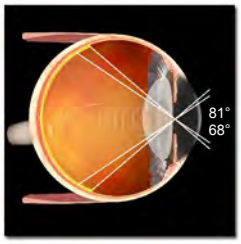
Classic Slit Lamp Lenses

60D

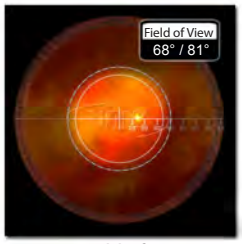
Primary Application – High Magnification Views of the Posterior Pole

- High magnification lens for detailed optic disc and macula imaging
- Ideal diameter for use in the orbital area

Product code: V60C



2D View



Field of View

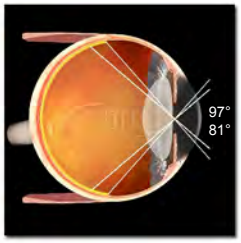
78D

Primary Application – General Diagnosis and Laser Treatment

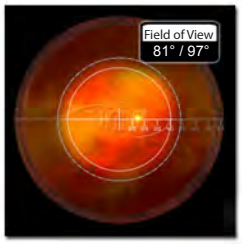
- Ideal balance of magnification and field of view
- Optimally designed for use within range of motion of all slit lamps

Available in 7 different colors
(shades may vary)

Product code: V78C



2D View



Field of View

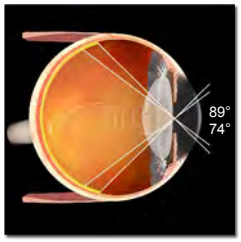
90D

Primary Application – General Diagnosis and Small Pupil Examinations

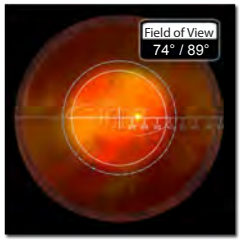
- Original 90D lens started the slit lamp fundus examination revolution
- Small diameter ring is ideal for dynamic fundoscopy
- Outstanding general diagnostic lens, even through small pupils

Available in 7 different colors
(shades may vary)

Product code: V90C



2D View



Field of View

2nd Generation...

Super Series Slit Lamp Lenses

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.

Classic	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
60D Classic	68° / 81°	1.15x	.87x	13mm	High magnification views of the posterior pole
78D Classic	81° / 97°	.93x	1.08x	8mm	General diagnosis and treatment
90D Classic	74° / 89°	.76x	1.32x	7mm	General diagnosis / small pupil examinations
Super Series	**Field of View**	**Image Mag.**	**Laser Spot**	**Working Distance**	**Primary Application**
Super 66®	80° / 96°	1.0x	1.0x	11mm	High Resolution viewing of the posterior pole
SuperField®	95° / 116°	.76x	1.3x	7mm	General retinal scanning situations
Super VitreoFundus®	103° / 124°	.57x	1.75x	4-5mm	Wide field retinal scanning and small pupil exams (3-4 mm)
SuperPupil® XL	103° / 124°	.45x	2.2x	4mm	Examination through small pupils (2-3mm)
Digital Series	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
Digital High Mag®	57° / 70°	1.30x	.77x	13mm	Highest resolution and magnification imaging of the posterior pole with reduced glare and reflections.
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	12mm	High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography.
Digital Wide Field®	103° / 124°	.72x	1.39x	4-5mm	High resolution, wide field retinal scanning and reduced glare and reflections.

Super Series Slit Lamp Lenses

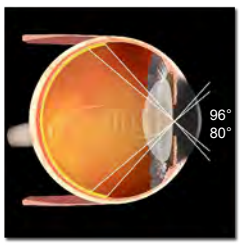
Available in 7 different colors
(shades may vary)

Super 66®

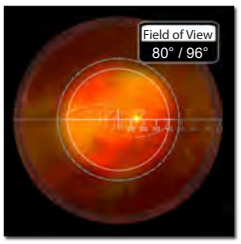
Primary Application – High Magnification Viewing of the Central Retina

- Enables 3D discernment of subtle macular and optic disc detail
- 1.0x magnification simplifies optic disc measurement

Product code: VS66



2D View



Field of View

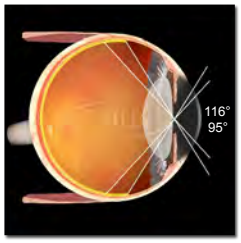
Available in 7 different colors
(shades may vary)

Super Field NC®

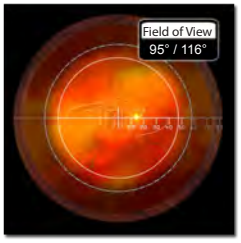
Primary Application – Wide Field, Pan Retinal Examination

- 'Super 90D'. Same magnification with a wider field of view
- Increased working distance compared to competitive fundus lenses

Product code: VSFNC



2D View



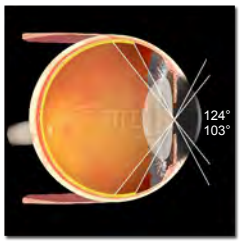
Field of View

Super VitreoFundus®

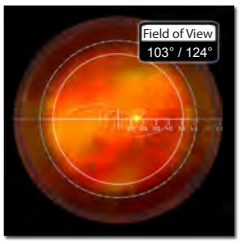
Primary Application – Wide Field, Pan Retinal Examination and Small Pupil Capability•

- 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



2D View



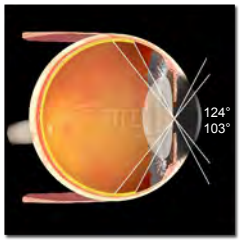
Field of View

Super Pupil® XL

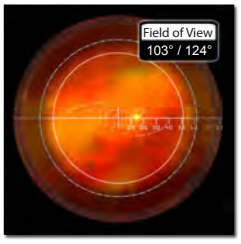
Primary Application – Small Pupil Pan Retinal Examination

- Optimal small pupil capability through a pupil as small as 2 - 3mm
- Excellent for diabetic patients with miotic eyes

Product code: VSPXL



2D View



Field of View

3rd Generation...

Digital Series Slit Lamp Lenses

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.

Classic	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
60D Classic	68° / 81°	1.15x	.87x	13mm	High magnification views of the posterior pole
78D Classic	81° / 97°	.93x	1.08x	8mm	General diagnosis and treatment
90D Classic	74° / 89°	.76x	1.32x	7mm	General diagnosis / small pupil examinations
Super Series	**Field of View**	**Image Mag.**	**Laser Spot**	**Working Distance**	**Primary Application**
Super 66®	80° / 96°	1.0x	1.0x	11mm	High Resolution viewing of the posterior pole
SuperField®	95° / 116°	.76x	1.3x	7mm	General retinal scanning situations
Super VitreoFundus®	103° / 124°	.57x	1.75x	4-5mm	Wide field retinal scanning and small pupil exams (3-4 mm)
SuperPupil® XL	103° / 124°	.45x	2.2x	4mm	Examination through small pupils (2-3mm)
Digital Series	**Field of View**	**Image Mag.**	**Laser Spot**	**Working Distance**	**Primary Application**
Digital High Mag®	57° / 70°	1.30x	.77x	13mm	Highest resolution and magnification imaging of the posterior pole with reduced glare and reflections.
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	12mm	High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography.
Digital Wide Field®	103° / 124°	.72x	1.39x	4-5mm	High resolution, wide field retinal scanning and reduced glare and reflections.

Digital Series Slit Lamp Lenses

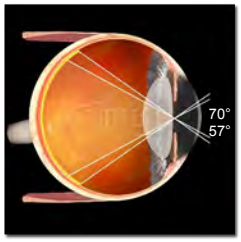
Avaliable in 7 different colors
(shades may vary)

Digital High Mag®

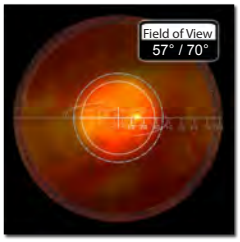
Primary Application – Highest Resolution, High Magnification Imaging of the Central Retina

- 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



2D View



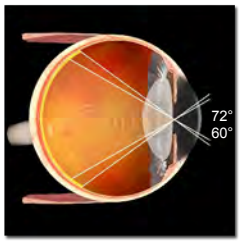
Field of View

Digital 1.0x Imaging Lens

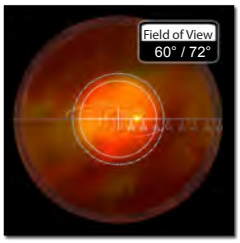
Primary Application – Ultimate Lens for Digital Slit Lamp Photography

- 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



2D View



Field of View

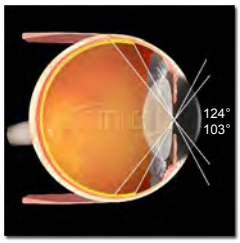
Avaliable in 7 different colors
(shades may vary)

Digital Wide Field®

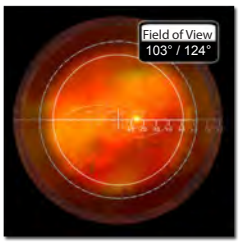
Primary Application – Highest Resolution Pan Retinal Examination

- 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



2D View



Field of View

Indirect Contact Laser Lenses

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

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.

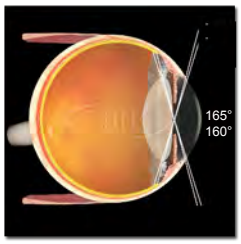
Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.

H-R Wide Field

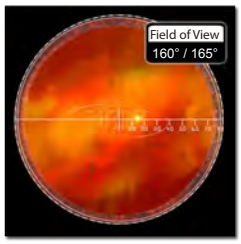
Primary Application – Widest Field Views of Any Lens for Examination and Laser PRP Treatment

- 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

Product code: VHRWF



2D View



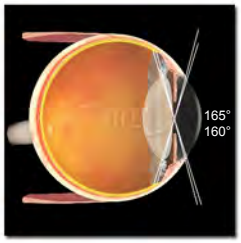
Field of View

Super Quad® 160

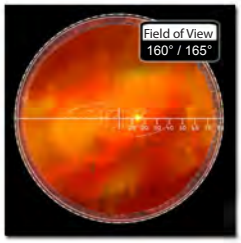
Primary Application – Extreme Wide Field Examination and Laser Treatment

- 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

Product code: VSQUAD160
VSQUAD160NF



2D View



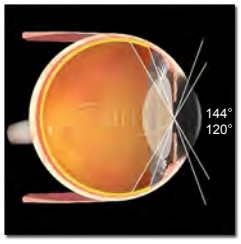
Field of View

QuadrAspheric®

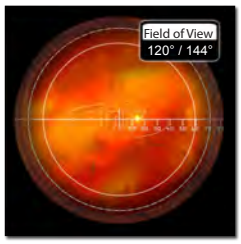
Primary Application – Wide Field Examination and Laser Treatment

- 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

Product code: VQFL
VQFLNF
VQFLANF+



2D View



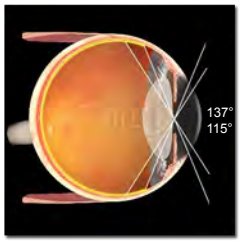
Field of View

PDT Laser

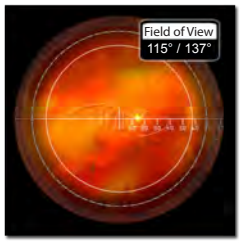
Primary Application – Photodynamic Therapy

- 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

Product code: VPDT



2D View



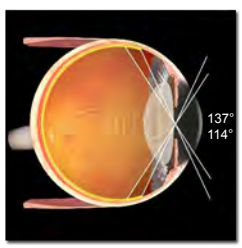
Field of View

Equator Plus®

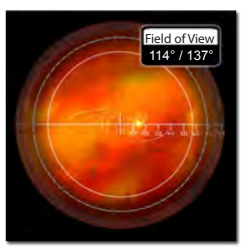
Primary Application – Small Pupil Diagnosis and Treatment

- 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 code: VEPANF+
VEPNF



2D View



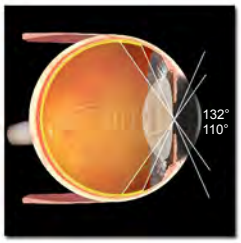
Field of View

Trans Equator®

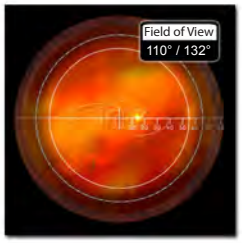
Primary Application – Mid Peripheral Retinal Diagnosis and Focal/Grid laser Therapy

- 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+)

Product code: VTE
VTENF
VTEANF+



2D View



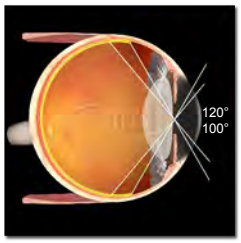
Field of View

Quad Pediatric

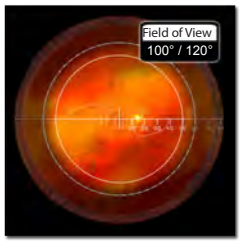
Primary Application – Retinopathy of Prematurity and Pediatric Diagnosis and Treatment

- 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

Product code: VQPED



2D View



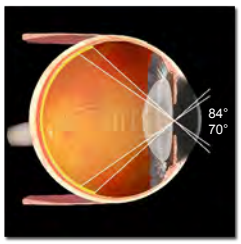
Field of View

Area Centralis®

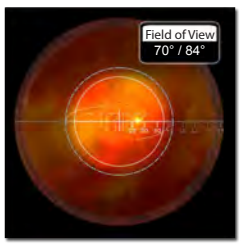
Primary Application – High Magnification Viewing and Treatment of the Posterior Pole

- 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+)

Product code: VAC
VACNF
VACANF+



2D View



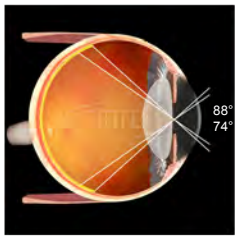
Field of View

HR Centralis

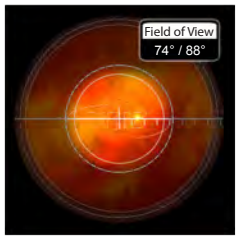
Primary Application – Highest Resolution Viewing and Treatment of the Posterior Pole

- 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

Product code: VHRC



2D View



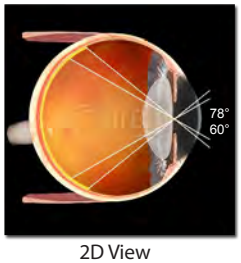
Field of View

Super Macula® 2.2

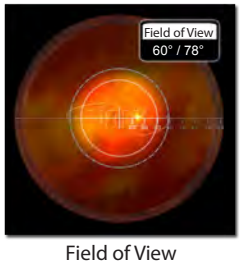
Primary Application – Ultra High Magnification Viewing and Treatment of the Posterior Pole

- 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

Product code: VSMAC2.2



2D View



Field of View

Direct Contact Laser Lenses

Lens	Field of View	Image Mag.	Laser Spot
Centralis Direct®	22° / 26°	.9x	1.11x
Fundus Laser Lens	35° / 40°	1.25x	.8x
Fundus 20mm Laser Lens	25° / 30°	1.44x	.7x

Note :

Flanged versions provide optimal stability on the cornea.

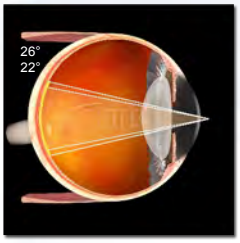
Our exclusive ANF+ flanged version is designed to provide optimal stability without the need for a contact fluid. It may be beneficial to utilize a lubricating fluid for patient comfort.

Centralis Direct®

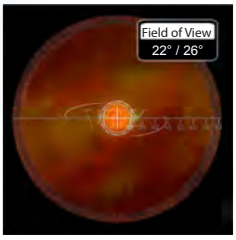
Primary Application – Direct Image Viewing and Treatment of the Posterior Pole

- 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+



2D View



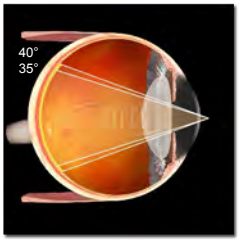
Field of View

Fundus Laser

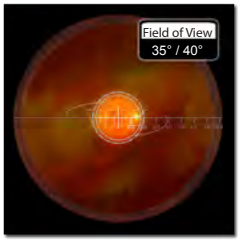
Primary Application – Direct Image Viewing and Treatment of the Posterior Pole

- 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



2D View



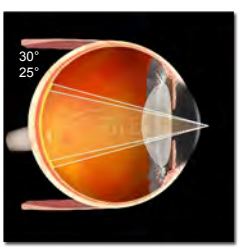
Field of View

Fundus Laser 20mm

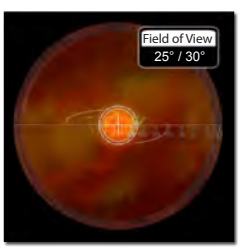
Primary Application – Direct Image Viewing and Treatment of the Posterior Pole

- 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



2D View



Field of View

Specialty Treatment Lenses

Lens	Field of View	Image Mag.	Laser Spot Mag.
Blumenthal Suturelysis	na	2x - 3x	.50x - .33x
Capsulotomy Lens	na	1.57x	.63x
Blumenthal Iridotomy	na	1.54x	.65x
MagPlus Iridectomy Lens	na	1.6x	.63x
Iridectomy Lens	na	1.7x	.58x
Idrees MidVitreous Lens	na	1.11x	.90x

Note :
Capsulotomy, Iridectomy and Iridotomy lenses are suitable for argon, diode and YAG laser treatments.

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

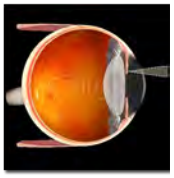
2D View

Idrees MidVitreous Lens

Primary Application – Laser treatment of vitreous floaters

- Superior ability to focus on vitreous floaters allows for the use of less laser energy, making the treatment safer for patient.
- Tall lens body allows for easy manipulation within the orbit., and is the preferred lens for patients with deep set eyes.
- Flanged contact element provides stability for laser delivery and prevents patient squeezing the lens off the eye.

Product code: VIMV



2D View

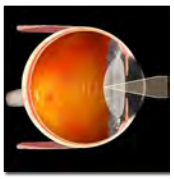
Specialty Treatment Laser Lenses

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



2D View

Blumenthal Iridotomy

Primary Application – Far Peripheral Laser Iridotomy Procedures

- Unique contact design allows indentation to open the angle and flatten the peripheral iris
- Aspheric lens element provides superior optical quality for sharply focused laser spots
- Improved lens peformance uses lower energy for less iris tissue damage and post laser inflammation
- Larger lens housing aids manipulation and allows more oblique viewing

Product code: VBIRID

2D View

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

2D View

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

2D View

Gonio Lenses

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

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.

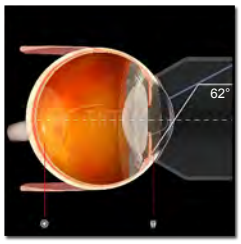
Gonio Lenses

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)



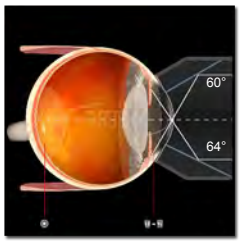
2D View

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)



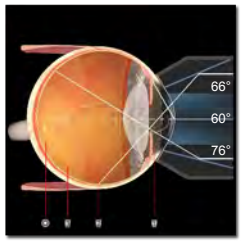
2D View

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)



2D View

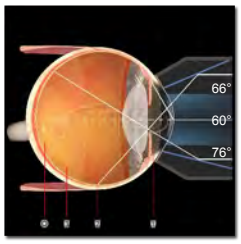
Available in mini version for pediatric and small orbit patients

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)



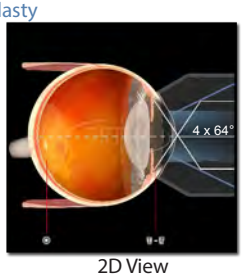
2D View

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)



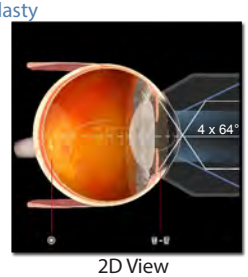
2D View

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:
VG4HM(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)



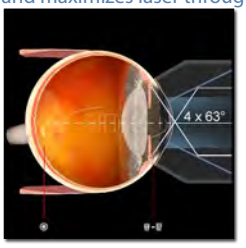
2D View

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+



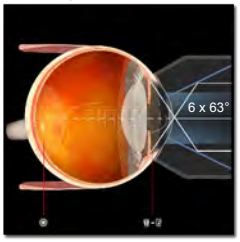
2D View

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:
VG6(with flange) best design for laser use
VG6LNF (no flange) 28.5mm Ring (as shown)
VG6HAN2 (no flange) Extended Handle (as shown)



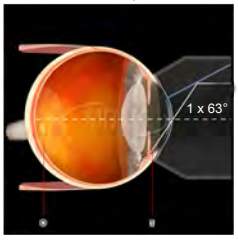
2D View

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



2D View

Surgical Gonio Lenses

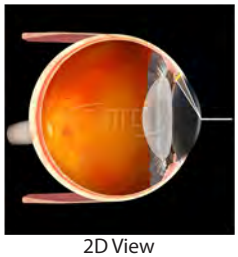
Lens	Image Mag.	Contact Diameter	Ring Diameter	Handle Length
TVG	1.2x	9mm	14mm	84 mm
Surgical Gonio	1.2x	9mm	10mm	75mm

Transcend Vold Gonio (TVG) Lens

Primary Application –Direct Views for Micro-Invasive Glaucoma Surgery (MIGS) and All Intraoperative Gonio Procedures

- Stabilization ring provides control of the globe
- Minimizes corneal pressure to prevent anterior chamber distortion
- Visualizes angle in primary phaco position with minimal microscope and head adjustments
- Fully steam sterilizable

Product code: VTSTVG



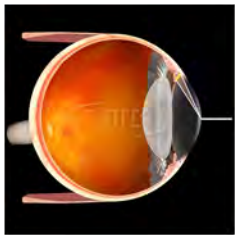
2D View

Surgical Gonio Lens

Primary Application – Direct Views for Intraoperative Gonio Procedures

- Lens position can be adjusted relative to the handle: for left hand and right hand or center position
- Applicable for MIGS procedures
- Sterilizable by either steam autoclave or ethylene oxide (ETO)

Product code: VSGACS



2D View

Single Use Laser & Gonio Lenses

Lens	Field of View	Mirror Angles	Image Mag.	Laser Spot Mag.
Volk®1 Single Use Capsulotomy	na	na	1.57x	0.63x
Volk®1 Single Use Iridotomy	na	na	1.70x	0.59 x
Volk®1 Single Use 3-Mirror Gonio	na	60°/ 66°/ 76°	1.0x	1.0x
Volk®1 Single Use 4-Mirror Gonio	na	4 x 64°	1.0x	1.0x

Volk®1 Single Use Capsulotomy

Primary Application – Laser Capsulotomy Procedures

- Molded acrylic optics provide superior imaging for one-time use
- Delivers precise focused laser beam placement at the capsular bag
- Packaged sterile in Tyvek® pouch - 10 lenses per box

Product code: VCAPSD

2D View

Volk®1 Single Use Iridotomy

Primary Application – Laser Iridotomy Procedures

- Molded acrylic optics provide superior imaging for one-time use
- Highest magnification imaging of the peripheral iris
- Packaged sterile in Tyvek® pouch - 10 lenses per box

Product code: VIRIDD

2D View

Note :

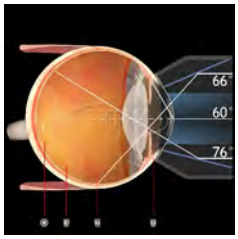
Capsulotomy and Iridotomy lenses are suitable for argon, diode and YAG laser treatments.

Volk®1 Single Use 3-Mirror Gonio

Primary Application – Viewing & Treatment of the Anterior Chamber and Central & Peripheral Fundus

- Molded acrylic optics provide superior imaging for one-time use
- Mirrors are accurately angled to eliminate gaps in the visualized fundus
- Packaged sterile in Tyvek® pouch - 10 lenses per box

Product code: V3MIRD



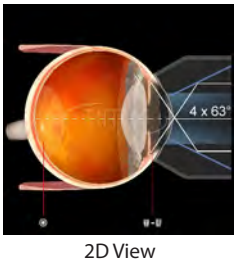
2D View

Volk®1 Single Use 4-Mirror Gonio

Primary Application – Standard Gonio Lens for Static & Dynamic Gonioscopy

- Molded acrylic optics provide superior imaging for one-time use
- Mirrors are accurately angled to eliminate gaps in the visualized fundus
- Packaged sterile in Tyvek® pouch - 10 lenses per box

Product code: V4MIRD



2D View

VOLK IMAGING

Diagnostic Imaging Devices

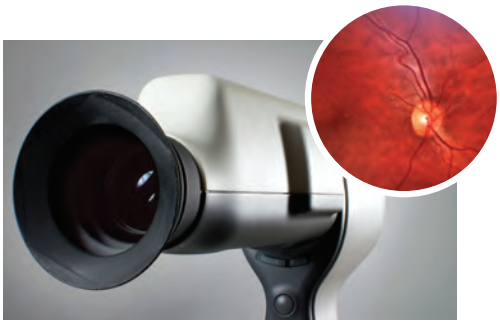
PICTOR PLUS

Portable Retinal Camera

The Pictor Plus portable opthalmic camera can take your practice places. From the exam room to on-location screenings, nursing home calls and everywhere in between.

Two easily interchangeable modules provide high resolution retinal (non-mydriatic) or external eye imaging. Two additional modules are available for otoscopic and dermascopic examination.

- **Retinal Module** - Pictor Plus retinal imaging enables non-mydriatic fundus examination with a 40º field of view. With digital still and video images, the appearance of optic disc, macula and retinal vasculature can be screened and documented for ocular lesions and anomalies.
- **Anterior Module** - Pictor Plus anterior imaging provides high-resolution digital image data of the surface of the eye and areas directly surrounding the eye. The cobalt blue LED light allows fluorescent imaging to detect a dry eye or any cuts or rashes on the surface of the eye.



VOLK iNview

iPhone fundus camera

Create a Doctor-Patient Dialogue with iNview. Leverage the power and convenience of the Apple iPhone with the trusted quality of Volk optics.

Quickly & effortlessly capture fundus images for visualization & patient education. Helps facilitate patient discussions related to disease progression and treatment plan.

> Free mobile application available in the Apple App Store (search Volk iNview)

> Offers 1 Megapixel resolution with a static 50° field of view

> View the peripheral retina dynamically out to 80°

> Available auto-capture & forced-capture imaging modes

> Mydriatic; requires minimum 5mm pupil

> HIPAA-compliant storage and export from iPhone to PC or Mac

> Compatible with Apple iPhone SE/6s/6/5s and iPod Touch (6)

VOLK® eye check

Ocular Measurment Device

Volk Eye Check

Volk Eye Check is a handheld, digital ocular measurement device that captures, analyzes & displays diagnostic eye measurements in real time.

Three Convenient Applications

- Contact Lens Fitting
- Oculoplastics Surgery
- Pediatric Strabismus Detection

Provides Objective Data

to ophthalmic & optometric clinicians

Seamlessly Integrates Into Your Work Flow

bringing instant value as a simple method for quick, cost-effective ocular measurement

CONTACT LENS (CL) MODE

Guides clinician to most appropriate first-choice contact lens via measurement of HVID, pupils, lids, and sagittal height, rather than clinician-preferred lens-to-fit.

Contact Lens Mode allows you to fit standard & specialty contact lenses in fewer sessions, increases patient satisfaction and reduces revenue loss from contact lens drop outs.

Featuring the Best Fit Analysis Report
A tailor-made CL report to the patient that identifies most appropriate lens brands & models in seconds.

best fit analysis

OCULOPLASTICS (OP) MODE

Documeting lids & landmarks, pre- & post-op.

Provides accurate, automatic measurement of 26 key parameters such as MRD, aperture and pupils for clinical and cosmetic lid surgeries. Great for medical insurance approval for surgery.

EYE CHECK (EC) MODE

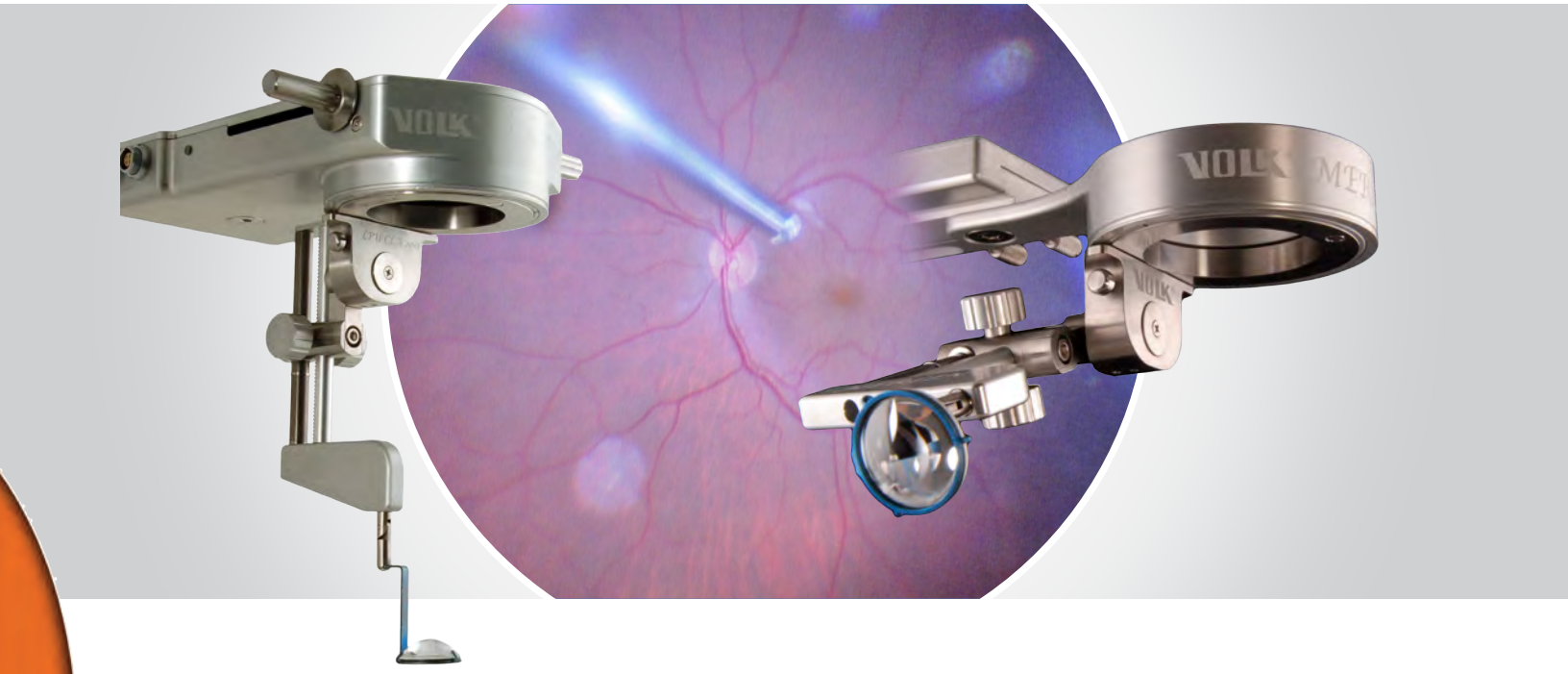
Detection and confirmation of strabismus, anisocoria and ptosis. A 21st-century Hirschberg test made simple.

Easy to use, easy to read, and quick! 17 different measurements in a single session.

VOLK®
SURGICAL

Surgical Viewing Systems & Surgical Lenses

Merlin Surgical System



Reinverter

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 is an advanced panoramic viewing system that provides reinverted images during vitreoretinal surgery, and delivers high resolution, correctly oriented retinal images. ROLS is used with all surgical microscopes for viewing the retina with contact surgical lenses, non contact systems and the MERLIN® non contact surgical viewing system.

Easily installed on all standard surgical microscopes

Removable magnetic latching handles facilitate cleaning and sterilization

The 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∞ is a 2nd gneration reinverter that provides superior image quality with minimal image shift. 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.

Easily installed on all standard microscopes

Removable handles facilitate cleaning and sterilization

LED indicators show inverted and correctly oriented positions

Indirect Surgical Vitrectomy Lenses

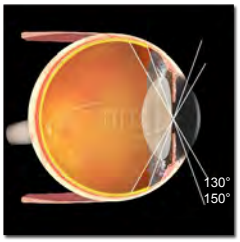
Lens	Field of View	Image Mag.
HRX	130° / 150°	.43x
MiniQuad® XL	112° / 134°	.39x
MiniQuad®	106° / 127°	.39x
DynaView	95° / 127°	.39x
Central Retinal	73° / 88°	.71x
Super Macula®	64° / 77°	1.03x

HRX Vit Lens

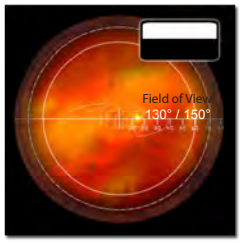
Primary Application – Far Peripheral Indirect Vitreoretinal Procedures

- 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)



2D View



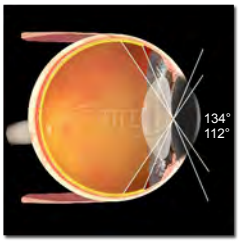
Field of View

Mini Quad® XL

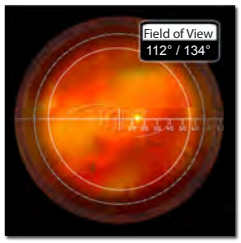
Primary Application – Indirect Viewing and Treatment of Peripheral Retinal Disorders

- 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



2D View



Field of View

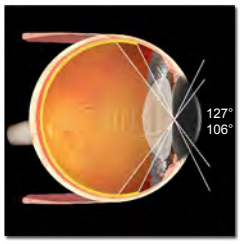
Indirect Surgical Vitrectomy Lenses

Mini Quad®

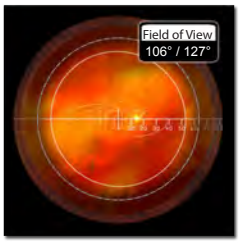
Primary Application – Indirect Viewing and Treatment of Peripheral Retinal Disorders

- Wide field of view of the entire retina including the ora serrata
- Smaller ring facilitates manipulation within the orbit
- Available in standard and self stabilizing contact (SSV®) options
- Ideal for retinal detachments and giant retinal tears
- Available in Autoclave Sterilizable design (see page 26)

Product code: VMQVIT (as shown)
VMQVITSSV



2D View



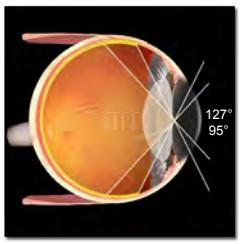
Field of View

Dyna View

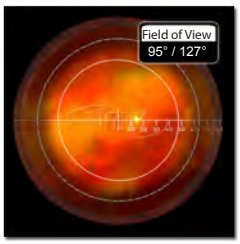
Primary Application – Retinopathy of Prematurity

- 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: VDVVIT



2D View



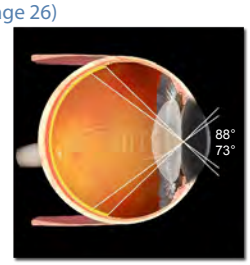
Field of View

Central Retinal

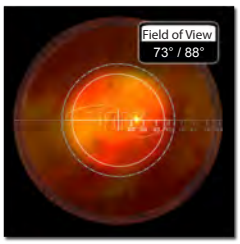
Primary Application – High Magnification Indirect Viewing and Treatment of the Central Retinal

- 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



2D View



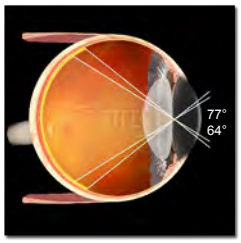
Field of View

Super Macula®

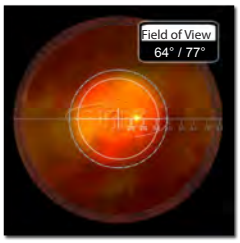
Primary Application – Highest Magnification Indirect Viewing and Treatment of the Central Retinal

- 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



2D View



Field of View

Autoclavable Surgical BIO & Indirect Surgical Vitrectomy Lenses

Autoclavable BIO Lenses

Lenses	Field of View	Image Mag.	Laser Spot	Working Distance
20D ACS®	46° / 60°	3.13x	.32x	50mm
28D ACS®	53° / 69°	2.27x	.44x	33mm

Autoclavable Indirect Surgical Vitrectomy Lenses

Lenses	Field of View	Image Mag.
HRX® ACS®	130 / 150°	.43x
MiniQuad® ACS®	106 / 127°	.48x
Central Retinal ACS®	73° / 88°	.71x

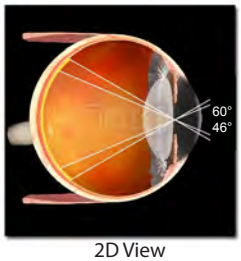
Autoclavable Surgical BIO & Vit Lenses

20D ACS®

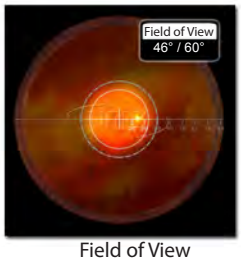
Primary Application – Industry standard autoclaveable general diagnostic lens

- 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



2D View



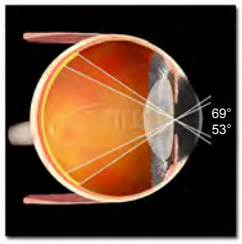
Field of View

28D ACS®

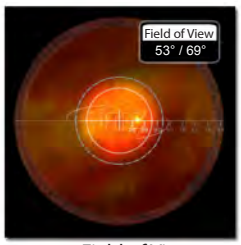
Primary Application – Autoclaveable wider field fundus scanning lens

- 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



2D View



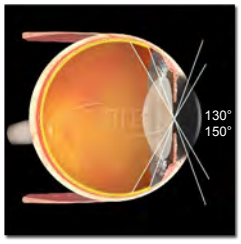
Field of View

HRX ACS®

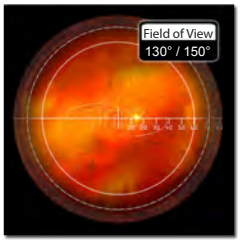
Primary Application – Widest field views for vitreoretinal procedures

- 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: VHRXVITACS (as shown)
VHRXVITSSVACS



2D View



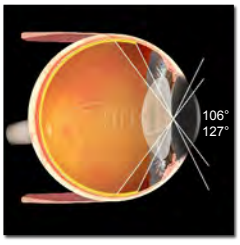
Field of View

Mini Quad® ACS®

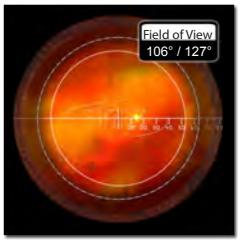
Primary Application – Peripheral Indirect Vitreoretinal Procedures

- Steam sterilizable for decreased processing time
- Smaller ring facilitates manipulation within the orbit
- Ideal for retinal detachments and giant retinal tears

Product code: VMQVITACS
VMQVITSSVACS (as shown)



2D View



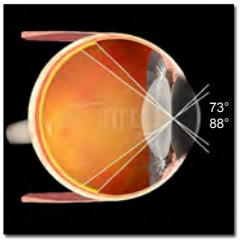
Field of View

Central Retinal ACS®

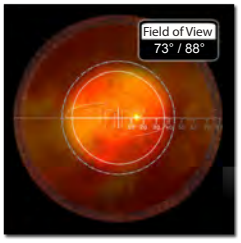
Primary Application – High Magnification Indirect Vitreoretinal Procedures

- 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: VCRLVITACS (as shown)
VCRLVITSSVACS



2D View



Field of View

High Resolution (HR) Direct Image Surgical Vitrectomy Lenses

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.

Lenses	Field of View	Image Mag.
HR Direct Image 1X	30°	1.0x
HR Direct Bi-Concave	45° (mid field) 30° (AFX)	0.5x (mid field) 1.0x (AFX)
HR Direct High Mag	20°	1.4x
HR Direct 20° Prism	40° (offset 20°)	0.5x

HR Direct Image Surgical Vitrectomy Lenses

1X

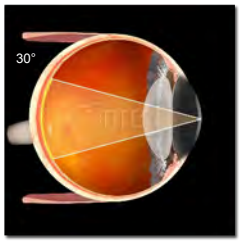
1X (NSR)

HR Direct 1X

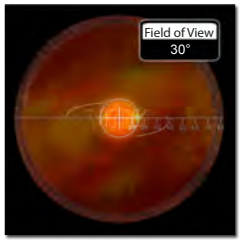
Primary Application – Direct Image Vitreoretinal Surgery of the Central Retina

- 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



2D View



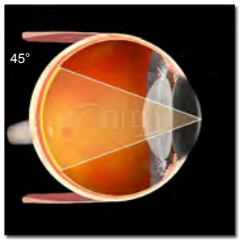
Field of View

HR Direct Bi-Concave

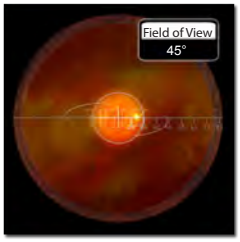
Primary Application – Wide Field and AFX (Air Fluid Exchange) Direct Image Vitreoretinal Surgery

- 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



2D View



Field of View

High Mag

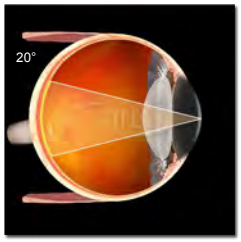
High Mag (NSR)

HR Direct High Mag

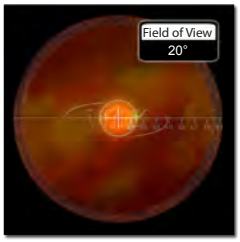
Primary Application – High Magnification Direct Image Vitreoretinal Surgery of the Central Retina

- 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



2D View



Field of View

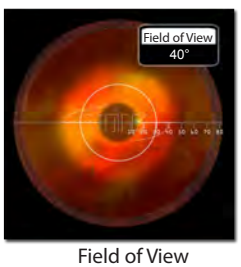
HR Direct 20° Prism

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

2D View



Field of View

Direct Surgical Vitrectomy Lenses
(Self Stabilizing)

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

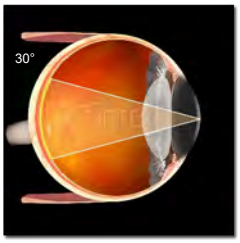
Lens	Field of View	Image Mag.
Chalam Flat SSV® (ACS)	30º	.92x
Chalam High Mag 1.5 SSV® (ACS)	15º	1.5x
Chalam Mid Field SSV® (ACS)	40°	.50x
Chalam 15° Prism SSV® (ACS)	30º offset	.90x
Chalam 30° Prism SSV® (ACS)	30º offset	.90x
Chalam 45° Prism SSV® (ACS)	30º offset	.90x
Chalam AFX SSV® (ACS) (Air Fluid Exchange - Air filled eye)	30º	.82x

Direct Image Flat (ACS®)

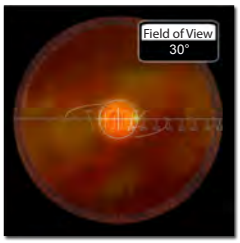
Primary Application – Routine Direct Image Vitreoretinal Surgery of the Central Retina

- Delivers high resolution direct image of the central retina
- Steam sterilizable for decreased processing time

Product code: VFLATSSVACS



2D View



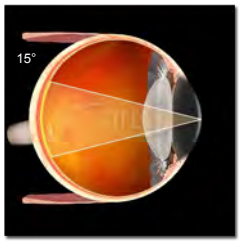
Field of View

Direct Image High Mag (ACS®)

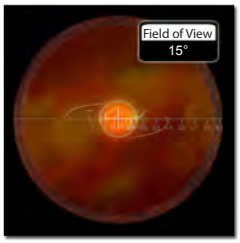
Primary Application – High Magnification Direct Image Vitreoretinal Surgery of the Central Retina

- Delivers high resolution, high magnification direct image of the central retina
- Steam sterilizable for decreased processing time

Product code: VFHMSSVACS



2D View



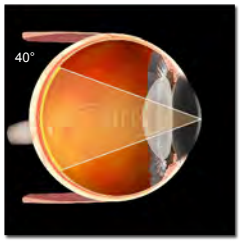
Field of View

Direct Image Mid Field (ACS®)

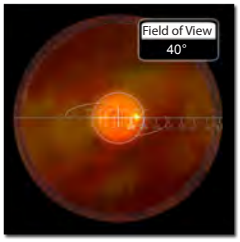
Primary Application – Wide Field Direct Image Vitreoretinal Surgery

- 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



2D View



Field of View

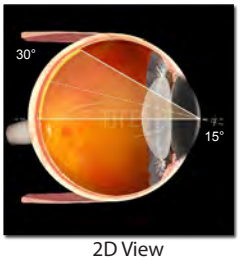
Direct Image Surgical Vitrectomy Lenses

Direct Image 15° Prism (ACS®)

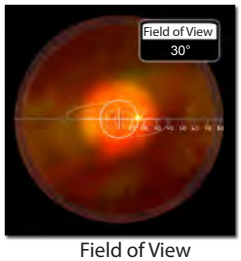
Primary Application – Off Axis Direct Image Vitreoretinal Surgery

- Design delivers 15° off axis retinal views
- Steam sterilizable for decreased processing time

Product code: VPRISMSSVACS



2D View



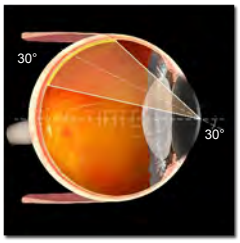
Field of View

Direct Image 30° Prism (ACS®)

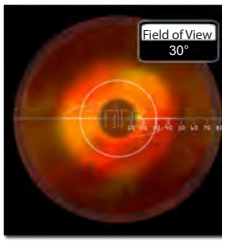
Primary Application – Off Axis Direct Image Vitreoretinal Surgery

- Design delivers 30° off axis retinal views
- Steam sterilizable for decreased processing time

Product code: V30PRISMSSVACS



2D View



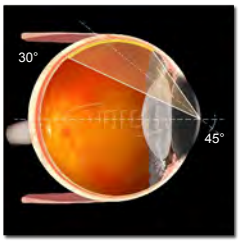
Field of View

Direct Image 45° Prism (ACS®)

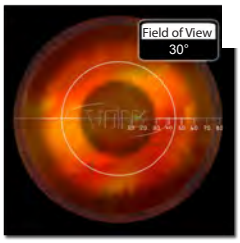
Primary Application – Off Axis Direct Image Vitreoretinal Surgery

- Design delivers 45° off axis retinal views
- Steam sterilizable for decreased processing time

Product code: V45PRISMSSVACS



2D View



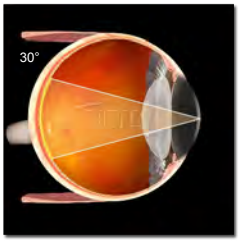
Field of View

Direct Image AFX (ACS®)

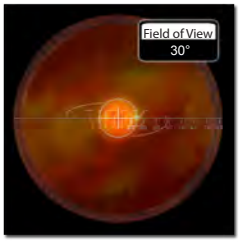
Primary Application – Direct Image Vitreoretinal Surgery During Air Fluid Exchange Procedures

- Delivers high resolution central retinal imaging
- Steam sterilizable for decreased processing time

Product code: VAFXSSVACS



2D View

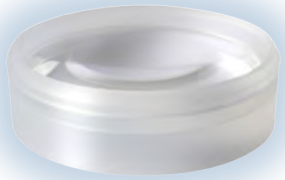


Field of View

Single Use Surgical BIO & Direct Image Vitrectomy Lenses

Volk®1 Single Use Surgical BIO Lenses

Single use surgical BIO lenses enable convenient pre- and post-operative diagnosis & laser treatment in a single use design. Volk®1 lenses aim to eliminate the potential transmission of infectious disease while also saving time and effort in the OR by eliminating reprocessing costs and turnaround.

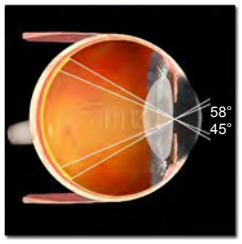


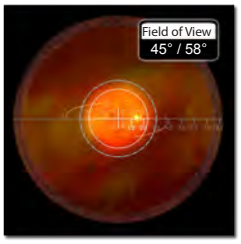
Volk®1 Single Use 20D

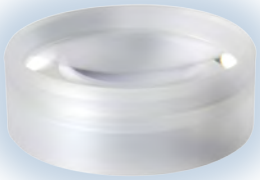
Primary Application – Industry standard single use general diagnostic BIO lens

- Molded acrylic optics provide superior imaging for one-time use
- High magnification provides excellent views of the optic disc and macula
- Packaged sterile in Tyvek® pouch - 10 lenses per box

Product code: V20LCD





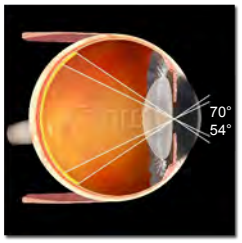


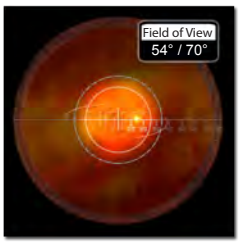
Volk®1 Single Use 28D

Primary Application – Industry standard single use fundus scanning BIO lens

- Molded acrylic optics provide superior imaging for one-time use
- High magnification provides excellent views of the optic disc and macula
- Packaged sterile in Tyvek® pouch - 10 lenses per box

Product code: V20LCD





Volk®1 Single Use Direct Image Vitrectomy Lenses

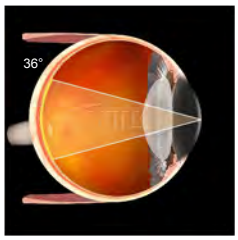
Available in 6 popular styles, these lenses deliver high resolution direct-image retinal views for all vitrectomy procedures. Most are fitted with a silicone stabilizing ring, eliminating the need for a suture ring or other lens holding device. The SSV® (self stabilizing) contact design eliminates the need for sutures or rings and was designed in collaboration with K.V. Chalam, MD. They are packaged individually in an easy to open peel pack and are boxed in quantities of 10 lenses.

Lens	Field of View	Image Mag.
Volk®1 Single Use Flat	36°	1.0x
Volk®1 Single Use Flat SSV®	30°	.92x
Volk®1 Single Use Magnifying	30°	1.5x
Volk®1 Single Use Wide Field	48°	0.5x
Volk®1 Single Use Bi-Concave	25°	0.8x
Volk®1 Single Use 30° Prism	33° (offset 30°)	1.0x

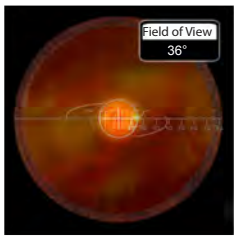
Volk®1 Single Use Flat (Standard and Self Stabilizing)

Primary Application –Routine Direct Image Vitreoretinal Surgery of the Central Retina

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



2D View

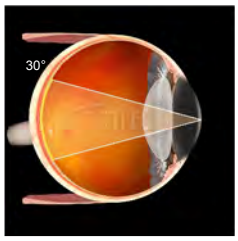


Field of View

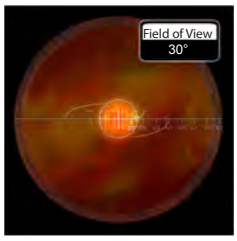
Volk®1 Single Use Magnifying

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

Product code: VMD10



2D View

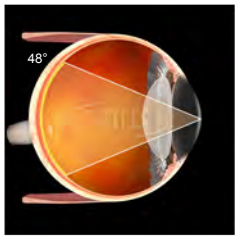


Field of View

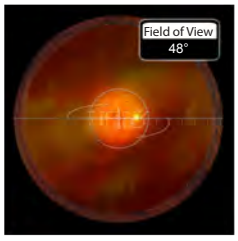
Volk®1 Single Use Wide Field

Primary Application – Wide Field Direct Image Vitreoretinal Surgery

Product code: VWFD10



2D View

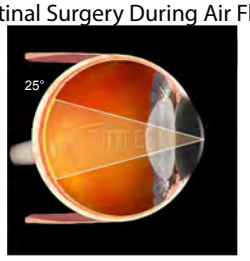


Field of View

Volk®1 Single Use Bi-Concave

Primary Application –Direct Image Vitreoretinal Surgery During Air Fluid Exchange

Product code: VBCD10



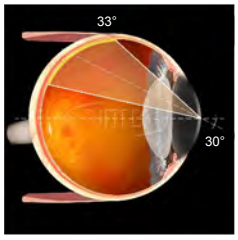
2D View

Field of View

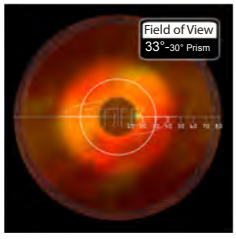
Volk®1 Single Use 30° Prism

Primary Application – Off Axis Direct Image Vitreoretinal Surgery

Product code: V30PD10



2D View



Field of View

Research Lenses

Lens	Part Number	Image Mag.	Contact Diameter	Lens Height	Handle Length
2mm Fundus	V2MFUNDUS	1.0x	2mm	5mm	76mm
2mm Gonio	V2MGONIO	1.0x	2mm	11mm	84mm

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.

Accessories

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

Not for use on surfaces that contact the eye.

Product code: VLENSPEN

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)

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: VSRS2

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 (Used with Mini Quad and Central Retinal)
VVITHAN-MQXL (Used with HRX, Mini Quad XL and Super Macula)

Sterilization Tray

Primary Application – Sterilization of Ophthalmic Lenses

- Autoclave safe and approved for use with ETO
- 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

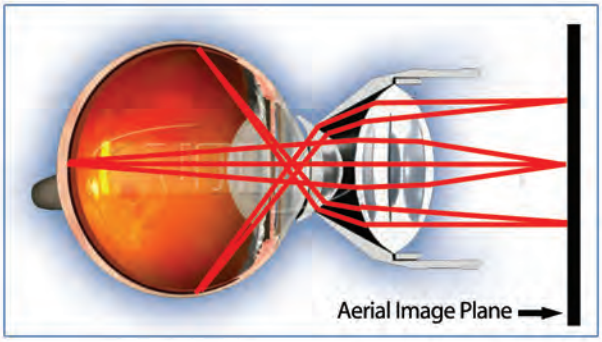
Case 1:	Case 2:
Lens 1 _____	Lens 1 _____
Lens 2 _____	Lens 2 _____
Lens 3 _____	Lens 3 _____
Lens 4 _____	Lens 4 _____
Lens 5 _____	Lens 5 _____
Lens 6 _____	Lens 6 _____

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.

Technical Specifications



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 Gonio 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, Pictor Plus and Volk Eye Check ophthalmic imaging devices against defects in materials or workmanship for a period of 1 year from receipt by end user.

Volk Optical warrants its 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 Surgical 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 Surgical 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.

Volk Optical warrants its Volk® 1 Single Use Lenses against defects in material and workmanship for the period ending with the product's sterility expiration.

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

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.

Ordering Information

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!

Order through your
Authorized Volk Distributor

Order Online
www.volk.com

buy it online
@ the volkStore

Order by Phone
440.942.6161
800.345.VOLK ***(toll free in the USA)***

Order by Fax
440.942.2257

Order by Mail
7893 Enterprise Drive
Mentor, Ohio 44060, USA

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