

The Finest Ophthalmic Imaging

















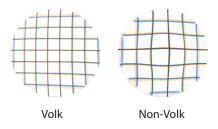


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How to Contact Volk

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 2 mm grid. The photo is not retouched.





Our Promise

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

Continual improvement led to the evolution and development of our 2nd generation, the Super Series Lenses, and to the unsurpassed image quality you can achieve today with our 3rd generation, the 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.

Lens Care

For lens care, cleaning, disinfection and sterilization instructions refer to volk.com/cleaning-and-care



online

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

volk.com

Visit Volk online to get the information you need to review, compare and order your lenses online.

An SSL secure certificate guarantees secure transactions over the Internet, protecting your privacy for online purchases. The site's improved distributor locator helps you quickly find your closest authorized Volk dealer.



Table of Contents

Classic Indirect BIO Lenses	1-3	
Digital Series Indirect BIO Lenses	4	
Classic Slit Lamp Lenses	5-6	
Super Series Slit Lamp Lenses	7-8	
Digital Series Slit Lamp Lenses	9-10	
Indirect Contact Laser Lenses	11-13	
Direct Contact Laser Lenses	14	
Specialty Treatment Laser Lenses	15-16	
Gonio Lenses	17-19	
Surgical Gonio Lenses	20	
Volk® 1Single-Use Laser & Gonio Lenses	21	
Pictor Plus	23	
Volk iNview	24	
Merlin Surgical System & ROLS® Reinverter	26-27	
Indirect Surgical Vitrecomy Lenses	28-29	
Autoclavable Surgical Lenses	30-31	
Direct Surgical Vitrecomy Lenses (Self Stabilizing)	32-33	
Direct Surgical Vitrecomy Lenses (High Resolution)	34-35	
Volk® 1 Single-Use Surgical BIO & Direct Vitrecomy Lenses	36-38	
Research Lenses and Accessories	39-40	
Cases and Personalization	41	
Technical Specifications	42	
Warranty Information	43	
Ordering Information	44	

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	0.18x	80 mm	Ultra-high resolution viewing of posterior pole
14D	36° / 47°	4.30x	0.23x	75 mm	Lligh magnification viewing of nectories nels
15D	36° / 47°	4.11x	0.24x	72 mm	High magnification viewing of posterior pole
20D	46° / 60°	3.13x	0.32x	50 mm	C
Pan Retinal® 2.2	56° / 73°	2.68x	0.37x	40 mm	General diagnosis and treatment
25D	52° / 68°	2.54x	0.39x	38 mm	Mid-peripheral diagnosis and treatment
28D	53° / 69°	2.27x	0.44x	33 mm	Small pupil diagnosis and treatment
30D Small	46° / 60°	2.10x	0.48x	30 mm	Small profile lens for ease of use within the orbit
30D	58° / 75°	2.15x	0.47x	30 mm	Small pupil diagnosis and treatment
40D	69° / 90°	1.67x	0.60x	20 mm	Low mag scanning out to the far-peripheral retina
Digital BIO Lenses	Field of View	Image Mag.	Laser Spot Mag. Factor	Working Distance	Primary Application
Digital Clear Field	55° / 72°	2.79x	0.36x	37 mm	For mid and far peripheral retinal viewing
Digital Clear Mag	38° / 49°	3.89x	0.26x	60 mm	For detailed optic disc and posterior pole examination

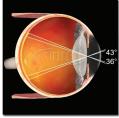


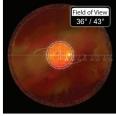
Macula Plus® 5.5

Primary Application – Ultra-High magnification view of the central retina

- 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

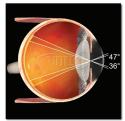


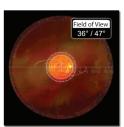
14D

Primary Application – High Magnification Viewing of the Posterior Pole

- High magnification provides excellent imaging of the macula and optic disc
- Detailed view of the optic disc facilitates glaucoma screening examination

Product code: V14LC





2D View

Field of View

Classic Indirect BIO Lenses



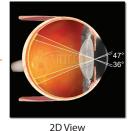
15D

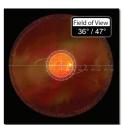
Primary Application – High Magnification Viewing of the Posterior Pole

- · High magnification view of the posterior pole
- Detailed view of the optic disc facilitates glaucoma screening examination

Product code:

V15LC





Field of View



Primary Application – Industry Standard General Diagnostic Lens



• Available in Autoclave Sterilizable (ACS®) design (see page 31) or Single-Use design (see page 36)

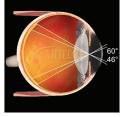


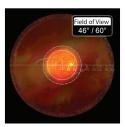
Available in 7 different colors (shades may vary)





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

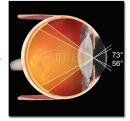
Avaliable in 7 different colors (shades may vary)

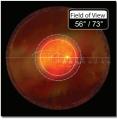




Product code:

VPRC





2D View

Field of View

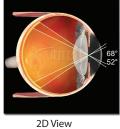


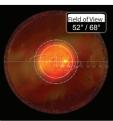
25D

Primary Application – Mid-Peripheral Diagnosis and Treatment

- Field of view extends from the central- to the mid-peripheral retina
- Smaller diameter facilitates manipulation within the orbit

Product code: V25LC





Field of View



Avaliable in 7 different colors (shades may vary)



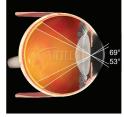
28D

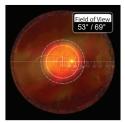
Primary Application – Ideal for Fundus Scanning

- Excellent for small pupil diagnosis and treatment
- Available in Autoclave sterilizable (ACS®) design (see page 31) or Single-Use design (see page 36)

Product code:

V28LC





2D View

Field of View

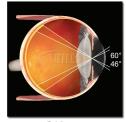


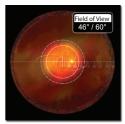
30D Small

Primary Application – Small Pupil and Pediatric Examination

- 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

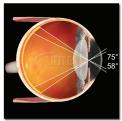


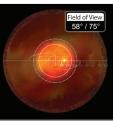
30D

Primary Application – Small Pupil and Pediatric Examination

- Optical design delivers high resolution views through a small pupil
- Dynamic BIO exam yields a field of view slightly wider than the mid-peripheral retina

Product code: V30LC





2D View

Field of View

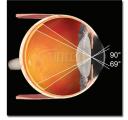


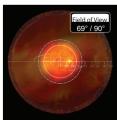
40D

Primary Application – Low Mag Scanning out to the Far-Peripheral Retina

- Widest field of view available in a BIO lens
- $\bullet \ Great \ for \ small \ pupil \ and \ pediatric \ exams$

Product code: V40LC





2D View

Field of View

Digital Series Indirect BIO Lenses

Embracing Volk's spirit of innovation, we developed our next generation of BIO lenses: The Digital Series. We used advanced computer modeling techniques to optimize the double aspheric design of each lens and we utilized low-dispersion glass to minimize chromatic aberration. The result: Volk's Digital Clear Mag and Digital Clear Field BIO lenses deliver the highest image resolution available with the indirect ophthalmoscope.

Classic BIO Lenses	Field of View	Image Mag.	Laser Spot Mag. Factor	Working Distance	Primary Application	
Macula Plus® 5.5	36° / 43°	5.50x	0.18x	80 mm	Ultra-high resolution viewing of posterior pole	
14D	36° / 47°	4.30x	0.23x	75 mm	High magnification viewing of posterior pole	
15D	36° / 47°	4.11x	0.24x	72 mm	High magnification viewing of posterior pole	
20D	46° / 60°	3.13x	0.32x	50 mm	General diagnosis and treatment	
Pan Retinal® 2.2	56° / 73°	2.68x	0.37x	40 mm	General diagnosis and treatment	
25D	52° / 68°	2.54x	0.39x	38 mm	Mid-peripheral diagnosis and treatment	
28D	53° / 69°	2.27x	0.44x	33 mm	Small pupil diagnosis and treatment	
30D Small	46° / 60°	2.10x	0.48x	30 mm	Small profile lens for ease of use within the orbit	
30D	58° / 75°	2.15x	0.47x	30 mm	Small pupil diagnosis and treatment	
40D	69° / 90°	1.67x	0.60x	20 mm	Low mag scanning out to the far-peripheral retina	
Digital BIO Lenses	Field of View	Image Mag.	Laser Spot Mag. Factor	Working Distance	Primary Application	
Digital Clear Field	55° / 72°	2.79x	0.36x	37 mm	For mid and far peripheral retinal viewing	
Digital Clear Mag	38° / 49°	3.89x	0.26x	60 mm	For detailed optic disc and posterior pole examination	

Key benefits:

- · Low-dispersion glass delivers enhanced resolution
- · Advanced A/R coating reduces reflections and glare up to 50% more than traditional A/R coatings

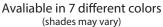


Digital Clear Field | Next Gen 20D

Primary Application – High Resolution Retinal Exam

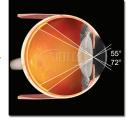
- 20% wider field of view than Classic 20D lens
- · High resolution view from the central to the mid-peripheral retina, even through small pupils

Product code:

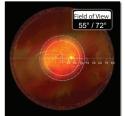












Field of View

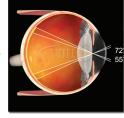


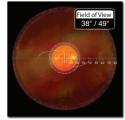
Digital Clear Mag | Next Gen 14D/15D

Primary Application – High Resolution Exam of the Posterior Pole

- With a similar field of view, upgrading to the Digital Clear Mag is an easy transition from the Classic 14D or Classic 15D
- · High resolution view from the central to the mid-peripheral retina

Product code: **VDGTLCM**





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	68° / 81°	1.15x	0.87x	13 mm	High magnification view of the posterior pole
78D	81° / 97°	0.93x	1.08x	8 mm	General diagnosis and treatment
90D	74° / 89°	0.76x	1.32x	7 mm	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	11 mm	High magnification view of the central retina
Super Field®	95° / 116°	0.76x	1.30x	7 mm	General retinal scanning situations
Super VitreoFundus®	103° / 124°	0.57x	1.75x	4-5 mm	Wide field retinal scanning and small pupil exams (3-4 mm)
Super Pupil® XL	103° / 124°	0.45x	2.20x	4 mm	Examination through small pupils (2-3 mm)
Digital Series	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
Digital Wide Field®	103° / 124°	0.72x	1.39x	4-5 mm	High resolution, wide field retinal scanning and reduced glare and reflections
Digital High Mag [®]	57° / 70°	1.30x	0.77x	13 mm	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	12 mm	High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography

Classic Slit Lamp Lenses

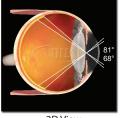


60D

Primary Application – High magnification view 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







Field of View



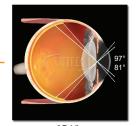
Available in 7 different colors (shades may vary)

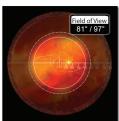


78D

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





Field of View



Available in 7 different colors (shades may vary)











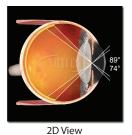
90D

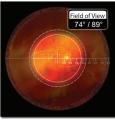
Product code: V78C

Primary Application – General Diagnosis and Small Pupil Examinations

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

Product code: V90C





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: The Super Series. 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	Laser	Working	Primary Application
Olassio	Ticla of View	Mag.	Spot	Distance	Tilliary Application
60D	68° / 81°	1.15x	0.87x	13 mm	High magnification view of the posterior pole
78D	81° / 97°	0.93x	1.08x	8 mm	General diagnosis and treatment
90D	74° / 89°	0.76x	1.32x	7 mm	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	11 mm	High magnification view of the central retina
Super Field®	95° / 116°	0.76x	1.30x	7 mm	Wide field, pan retinal examination
Super VitreoFundus®	103° / 124°	0.57x	1.75x	4-5 mm	Wide field retinal scanning and small pupil exams (3-4 mm)
Super Pupil® XL	103° / 124°	0.45x	2.20x	4 mm	Examination through small pupils (2-3 mm)
Digital Series	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
Digital Wide Field®	103° / 124°	0.72x	1.39x	4-5 mm	High resolution, wide field retinal scanning and reduced glare and reflections.
Digital High Mag [®]	57° / 70°	1.30x	0.77x	13 mm	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	12 mm	High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography

Super Series Slit Lamp Lenses



Available in 7 different colors (shades may vary)



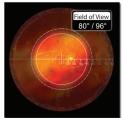
Super 66®

VS66

Primary Application – High Magnification Viewing of the Central Retina

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

Product code:







Available in 7 different colors (shades may vary)

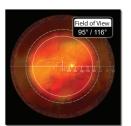




Primary Application – Wide Field, Pan Retinal Examination

- 'Super 90D' same magnification with a wider field of view
- Combines a wide field of view with a comfortable working distance





Field of View



Super VitreoFundus®

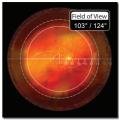
Primary Application – Wide Field, Pan Retinal Examination and Small Pupil Capability

- Widest field of view in a non contact lens with views past the vortex
- Excellent small pupil capability through a 3-4 mm pupil

Product code: **VSVF**



2D View



2D View Field of View

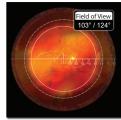




Primary Application – Small Pupil Pan Retinal Examination

- Optimal small pupil capability through a pupil as small as 2–3 mm
- Excellent for funduscopy through a miotic pupil

Product code: **VSPXL**



Field of View

3rd Generation...

Digital Series Slit Lamp Lenses

Volk has taken double aspheric lenses to the next level with our 3rd Generation slit lamp lenses: The Digital Series. Similar to the Digital BIO lenses, we combined advanced engineering techniques with higher grades of glass to produce detailed views of the retina that were previously unattainable at the slit lamp. Our Digital Series slit lamp lenses have an advanced A/R coating that reduces reflections and glare by up to 50%, as compared to a traditional coating.

Whether you're looking for a wider field of view or higher magnification, Volk's Digital Series slit lamp lenses have you covered. The Digital Wide Field®, Digital High Mag®, and Digital 1.0x Imaging Lens offer the highest image resolution available

Classic	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application	
60D	68° / 81°	1.15x	0.87x	13 mm	High magnification view of the posterior pole	
78D	81° / 97°	0.93x	1.08x	8 mm	General diagnosis and treatment	
90D	74° / 89°	0.76x	1.32x	7 mm	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	11 mm	High magnification view of the central retina	
SuperField [®]	95° / 116°	0.76x	1.30x	7 mm	General retinal scanning situations	
Super VitreoFundus®	103° / 124°	0.57x	1.75x	4-5 mm	Wide field retinal scanning and small pupil exams (3-4 mm)	
SuperPupil® XL	103° / 124°	0.45x	2.20x	4 mm	Examination through small pupils (2-3 mm)	
Digital Series	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application	
Digital Wide Field [®]	103° / 124°	0.72x	1.39x	4-5 mm	High resolution pan retinal exam	
Digital High Mag [®]	57° / 70°	1.30x	0.77x	13 mm	High resolution, high magnification retinal exam	
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	12 mm	Digital slit lamp photography	

Digital Series Slit Lamp Lenses



Avaliable in 7 different colors (shades may vary)

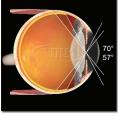


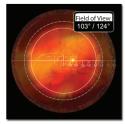
Digital Wide Field | 3rd Generation 90D Primary Application – High Resolution Pan Retinal Exam

- 40% more field of view than Classic 90D, the widest field of view available in a non-contact lens
- Enhanced double aspheric design paired with high index glass ensures highest resolution stereo image, even through small pupils

Product code:







2D View

Field of View



Avaliable in 7 different colors (shades may vary)









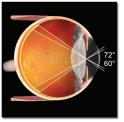


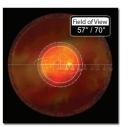
Digital High Mag[®] | 3rd Generation 60D

Primary Application – High Resolution, High Magnification Retinal Exam

- · High magnification, along with outstanding stereopsis, provide detailed views of the optic disc, the optic nerve, and the retinal nerve fiber layer making this lens ideal for glaucoma screening
- Image magnification of 1.30x is the highest magnification available in a non-contact slit lamp lens

Product code: **VDGTLHM**





2D View

Field of View

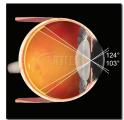


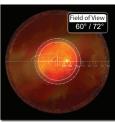
Digital 1.0x Imaging Lens

Primary Application – Digital Slit Lamp Photography

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

Product code: VDGTL1





2D View

Field of View

Indirect Contact Laser Lenses

Indirect Lenses	Field of View	Image Mag. Laser Sp		Primary Application
SuperQuad [®] 160	160° / 165°	0.50x	2.0x	
HR Wide Field	160° / 165°	0.50x	2.0x	Wide field of view for panretinal examination and laser treatments
QuadrAspheric [®]	120° / 144°	0.51x	1.97x	idea a suamente
Area Centralis [®]	70° / 84°	1.06x	0.94x	
HR Centralis	74°/ 88°	1.08x	0.93x	High magnification examination and treatment of the posterior pole
SuperMacula [®] 2.2	60° / 78°	1.49x	0.67x	positioner period
TransEquator [®]	110° / 132°	0.70x	1.44x	Mid peripheral diagnosis and grid laser therapy
Equator Plus [®]	114° / 137°	0.44x	2.27x	Small pupil diagnosis and treatment
Quad Pediatric	100° / 120°	0.55x	1.82x	ROP and other pediatric conditions
PDT Laser	115° / 137°	0.67x	1.50x	Photodynamic therapy

Note:

Flanged versions provide optimal stability on the cornea. A coupling fluid should be used with our Flanged Laser Lenses.

No Flange (NF) versions of our lenses have a smaller corneal contact area than our flanged versions. A coupling fluid should be used with our No Flange (NF) lenses.

Our exclusive Advanced No Fluid (ANF+) Flange is designed to provide optimal stability during examination without the need for contact fluid. However, it may be beneficial to utilize a lubricating fluid for patient comfort. A coupling fluid should be used during laser procedures.

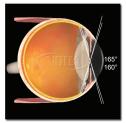


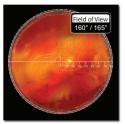
Super Quad® 160

Primary Application – Wide Field of View for PanRetinal Examination and Laser Treatments

- Wide field views for complete retinal imaging out to the ora serrata
- Excellent for PRP and other laser treatments out to the far-peripheral retina

Product code: With Flange: VSQUAD160NF No Flange: VSQUAD160





HR Wide Field

2D View

Field of View



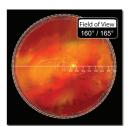
Primary Application - Wide Field of View for PanRetinal Examination and Laser Treatments

• Same field of view and image magnification as the Super Quad® 160 but at half the size and half the weight

· Low-dispersion glass reduces chromatic aberration and ensures excellent imaging to the ora serrata









QuadrAspheric®

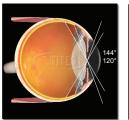
2D View

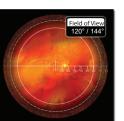
Field of View

Primary Application - Wide Field of View for PanRetinal Examination and Laser Treatments

- · High resolution imaging of the peripheral retina with small pupil capability
- Excellent general diagnostic and laser treatment lens

Product code: With Flange: VQFL No Flange: VQFLNF ANF+ Flange: VQFLANF+





Area Centralis®

2D View

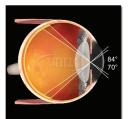
Field of View

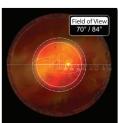
Primary Application – High Magnification Examination and Treatment of the Posterior Pole

- · Ideal for focal/grid laser treatment
- · High magnification image of the posterior pole with expanded field of view



Product code: With Flange: VAC No Flange: VACNF ANF+ Flange: VACANF+





HR Centralis

2D View

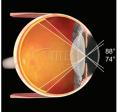
Field of View

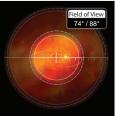
Primary Application – High Magnification Examination and Treatment of the Posterior Pole

- · Low-dispersion glass and advanced double aspheric design produces a high resolution view out to the peripheral retina
- Excellent capability with pupils as small as 4 mm



Product code: With Flange: VHRC





2D View Field of View

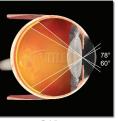


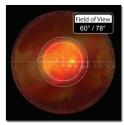
Super Macula® 2.2

Primary Application - High Magnification Examination and Treatment of the Posterior Pole

- 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: With Flange: VSMAC2.2





2D View

Field of View

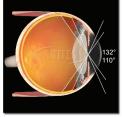


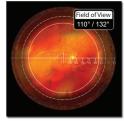
Trans Equator®

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: With Flange: VTE No Flange: VTENF ANF+ Flange: VTEANF+





Equator Plus®

Field of View



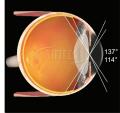
Primary Application - Small Pupil Diagnosis and Treatment

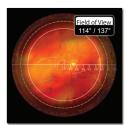
- · Optimally sized to maximize maneuverability in the orbit
- · High resolution wide field imaging with small pupil capability
- Available in numerous contact options including our exclusive advanced no fluid (ANF+)



Product code:

ANF+ Flange: VEPANF+ No Flange: VEPNF





2D View

Field of View

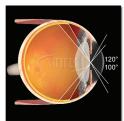


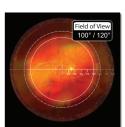
Quad Pediatric

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: With Flange: VQPED





2D View

Field of View



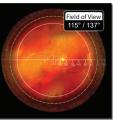
PDT Laser

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 A/R coating for 689 nm wavelength used for PDT procedures

Product code: With Flange: VPDT





2D View Field of View

Direct Contact Laser Lenses

Lens	Field of View	Image Mag.	Laser Spot
Centralis Direct®	22° / 26°	0.90x	1.11x
Fundus Laser	35° / 40°	1.25x	0.80x
Fundus 20 mm Laser	25° / 30°	1.44x	0.70x

Note:

Flanged versions provide optimal stability on the cornea.

Our exclusive Advanced No Fluid (ANF+) Flange is designed to provide optimal stability during examination without the need for contact fluid. However, it may be beneficial to utilize a lubricating fluid for patient comfort. A coupling fluid should be used during laser procedures.



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 both Flanged and Advanced No Fluid (ANF+) Flanged designs

Product code: VCD VCDANF+







Field of View

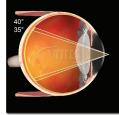


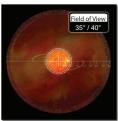
Fundus Laser

 $\label{primary Application - Direct Image Viewing and Treatment of the Posterior Pole} Primary Application - Direct Image Viewing and Treatment of the Posterior Pole (Control of the Posterior Pole of the Pole of the Po$

- 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

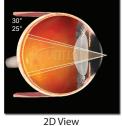


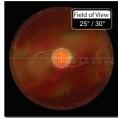
Fundus Laser 20 mm

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





Field of View

Specialty Treatment Lenses

Lens	Image Mag.	Laser Spot Mag.
Singh Mid-Vitreous	1.16x	0.86x
Idrees Mid-Vitreous Lens	1.11x	0.90x
Selective Laser Trabeculoplasty (SLT)	1.0x	1.0x
Capsulotomy	1.57x	0.63x
Blumenthal Iridotomy	1.54x	0.65x
Mag Plus Iridectomy Lens	1.60x	0.63x
Iridectomy	1.70x	0.58x
Blumenthal Suturelysis	2x-3x	0.50x-0.33x

Note:

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



Singh Mid-Vitreous

Primary Application – Laser Treatment of Vitreous Floaters

- Enables clear visualization of vitreous floaters from the posterior capsule to the retina
- Unique Flanged contact element provides stability during laser procedures and is ideal for patients with small palpebral fissures

Product code: VSMV



2D View



Idrees Mid-Vitreous

Primary Application – Laser Treatment of Vitreous Floaters

- Tall lens body makes this the preferred lens for treating patients with deep set eyes
- Flanged contact element provides stability during laser procedures

Product code: VIMV



2D View



Selective Laser Trabeculoplasty (SLT)

Primary Application – SLT Procedures

- 1.0x magnification maintains laser spot size and power density at the treatment site
- · Large internally reflective facet provides excellent view of the angle

Product code: VSLT



2D View

Specialty Treatment Laser Lenses



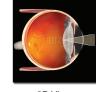
Capsulotomy

Primary Application – Laser Capsulotomy Procedures

- Enables precise focusing of the laser beam at the posterior lens capsule
- · Laser Window provides a protective barrier for internal imaging components

Product code:

VCAPS



2D View



Blumenthal Iridotomy

Primary Application – Far Periperal 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

- High magnification of the iris ensures precise placement of the laser beam
- Laser Window provides a protective barrier for internal imaging components

Product code:

VIRID



2D View



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

Gonio Lenses

Volk's Gonio Lenses are the industry standard for performing static, dynamic, and indentation gonioscopy. Our No Flange G-Series Lenses (G-1, G-2, G-3, G-4, and G-6) have a small contact area which maximizes patient comfort and minimizes corneal wrinkling during dynamic exams.

Volk's With Flange G-Series and Coated 3-Mirror Gonio Lenses can be used to perform laser trabeculoplasty for patients with primary open angle glaucoma. The standard flange on our G-Series Gonio Lenses and the Advanced No Fluid (ANF+) Flange of our Coated 3-Mirror Lens provide optimal stability on the cornea during laser procedures. It's important to note that while the ANF+ Flange does not require coupling fluid for routine examination, Volk does recommend using a coupling fluid for laser procedures.

Every glaucoma specialist should have at least one of Volk's Gonio Lenses in their portfolio.

Lens	Mirror Angles	Mirror Angles Image Magnification		Contact Diameter
G-1 Gonio	62°	1.50x	0.67x	15 mm
G-1 Gonio, No Flange	62°	1.50x	0.67x	8.4 mm
G-2 Gonio	60° / 64°	1.50x	0.67x	15 mm
G-2 Gonio, No Flange	60° / 64°	1.50x	0.67x	8.4 mm
3 Mirror (no flange)	60° / 66° / 76°	1.06x	0.94x	15 mm
3 Mirror (ANF+)	60° / 66° / 76°	1.06x	0.94x	18 mm
G-3 Gonio	60° / 66° / 76°	1.06x	0.94x	15 mm
G-3 Gonio, No Flange	60° / 66° / 76°	1.03x	0.97x	11.4 mm
G-3 Mini Gonio, No Flange	60° / 66° / 76°	1.0x	1.0x	9.6 mm
G-4 Gonio	4x64°	1.0x	1.0x	15 mm
G-4 Gonio, No Flange	4x64°	1.0x	1.0x	8.4 mm
G-4 High Mag Gonio	4x64°	1.50x	0.67x	15 mm
G-4 High Mag Gonio, No Flange	4x64°	1.50x	0.67x	8.4 mm
Mini 4-Mirror	4x62°	1.0x	1.0x	15 mm
G-6 Gonio, No Flange	6x63°	1.0x	1.0x	8.4 mm

Note:

Flanged versions provide optimal stability on the cornea and are suggested for laser treatment use. A coupling fluid should always be used with the Flanged version of our G-Series Gonio Lenses.

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). A coupling fluid should be used with our 3-Mirror, No Flange Gonio Lens.

Our exclusive Advanced No Fluid (ANF+) Flange 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

The industry standard for examination and treatment of the anterior chamber

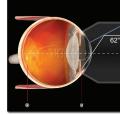


G-1 Gonio

1 Mirror, All-Glass Design

- High magnification (1.50x) enables detailed viewing of the trabecular meshwork
- · All-glass design provides superior clarity and durability
- Available in two formats: Flanged (recommended for laser trabeculoplasty) and No Flanged (recommended for routine gonioscopy)

Product code: Flange: VG1 (as shown) No Flange: VG1NF



2D View



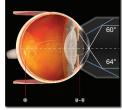
G-2 Gonio

2 Mirrors, All-Glass Design

- High magnification (1.50x) combined with dual mirror angles (60°/64°) allows for both a detailed and a broad view of the anterior chamber
- All-glass design provides superior clarity and durability
- · Available in two formats: Flanged (recommended for laser trabeculoplasty) and No Flanged

(recommended for routine gonioscopy)

Product code: Flange: VG2 (as shown) No Flange: VG2NF



2D View



Available in mini version for pediatric and small orbit patients

G-3 Gonio

3 Mirrors, All-Glass Design

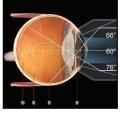
- 60° mirror provides a view of the iridocorneal angle
- 66° mirror provides a retinal image from the equator to the ora serrata
- 76° mirror provides a view of the mid-peripheral/peripheral retina
- · Available in two formats: Flanged (recommended for laser trabeculoplasty) and No Flanged (recommended for routine gonioscopy)

Product code:

Flange: VG3

No Flange: VG3NF (as shown)

No Flange: VG3MININF (as shown)



2D View



3-Mirror

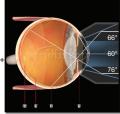
Primary Application – 3 Mirrors, Acrylic Design

- Three-mirror design provides the same views as our G-3 Gonio lenses but in a light weight acrylic design
- Uncoated lenses are ideal for diagnostic exams while Coated lenses are perfect for laser treatments
- · Advanced No Fluid (ANF+) Flange only requires a coupling fluid during laser procedures

Product code:

No Flange: V3MIR (as shown) ANF+ Flange: V3MIRANF+

No Flange, No Coating (Diagnostic): VU3MIR ANF+ Flange, No Coating (Diagnostic): VU3MIRANF+



2D View

Gonio Lenses



High Mag gonio

G-4 Gonio

- 4 Mirrors, All-Glass Design
- Four-mirror design allows for comprehensive examination and treatment of the trabecular meshwork with minimal lens rotation
- · Available with a large ring (28.5 mm), a small ring (25.5 mm), or a 2-position handle (right/left handed)
- No Flange version is ideal for dynamic and indentation gonioscopy while Flanged version provides stability for laser trabeculoplasty

Product code:

With Flange: VG4 (as shown)

No Flange, Small Ring (25.5 mm): VG4SNF No Flange, Large Ring (28.5 mm): VG4LNF

No Flange, Extended Handle: VG4HAN2





G-4 High Mag Gonio

4 Mirrors, All-Glass Design

- 50% more image magnification than our classic G-4 Gonio enables more detailed viewing of the trabecular meshwork
- Available with a large ring (28.5 mm), a small ring (25.5 mm), or a 2-position handle (right/left handed)
- No Flange version is ideal for dynamic and indentation gonioscopy while Flanged version provides stability for laser trabeculoplasty

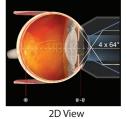


With Flange: VG4HM (as shown)

No Flange, Small Ring (25.5 mm): VG4HMSNF No Flange, Large Ring (28.5 mm): VG4HMLNF

No Flange, Extended Handle: VG4HMHAN2





Mini 4-Mirror

- 4 Mirrors, Acrylic Design
- Smaller, lighter-weight design facilitates easy manipulations within the orbit
- Advanced No Fluid (ANF+) Flange does not require coupling fluid during routine gonioscopy



Product code: VM4ANF+



2D View

G-6 Gonio

6 Mirrors, All-Glass Design

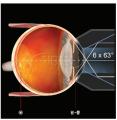
- Six closely-aligned mirrors create a panoramic view of the anterior chamber and minimize the need for dynamic gonioscopy
- Available with a large ring (28.5 mm) or a 2-position handle (right/left handle)



Product code:

No Flange, Large Ring (28.5 mm):VG6LNF No Flange, Extended Handle: VG6HAN2





2D View

Alcon[®]

Surgical Gonio Lenses

Lens	Image Mag.	Contact Diameter	Ring Diameter	Handle Length
AVG	1.20x	9 mm	14 mm	84 mm
Surgical Gonio	1.20x	9 mm	10 mm	75 mm

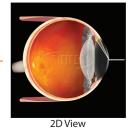


Alcon Vold Gonio (AVG) Lens

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:





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	Mirror Angles	Image Mag.	Laser Spot Mag.
Volk [®] 1 Single-Use Capsulotomy	na	1.57x	0.63x
Volk®1 Single-Use Iridotomy	na	1.70x	0.59x
Volk®1 Single-Use SLT	63°	1.0x	1.0x
Volk®1 Single-Use 3-Mirror Gonio	60° / 66° / 76°	1.0x	1.0x
Volk®1 Single-Use 4-Mirror Gonio	4x64°	1.0x	1.0x

Experience unmatched image quality and focusing capability with Volk's Single-Use Laser and Gonio Lenses. Single-Use Lenses are perfect for routine examination, laser treatments, and surgical procedures.

Volk's Single-Use Lenses are pre-sterilized and individually-packaged in a Tyvek® pouch. Single-Use Lenses are sold in boxes of 10.



Volk®1 Single-Use Capsulotomy

Primary Application - Laser Capsulotomy Procedures

• Facilitates accurate laser beam focus on the posterior lens capsule

Product code: VCAPSD10







Volk®1 Single-Use Iridotomy

Primary Application – Laser Iridotomy Procedures

· Magnified view of the peripheral iris enables precise laser placement for iridotomy procedures

Product code:

VIRIDD10



2D View

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



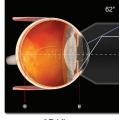
Volk®1 Single-Use SLT

Primary Application – SLT Procedures, Static and Dynamic Gonioscopy Single-mirror lens angled at 63° ensures proper laser placement during Selective Laser Trabeculoplasty

Single-Use SLT lens can also be used for ALT procedures

Product code:

VSLTD10



2D View



Volk®1 Single-Use 3-Mirror Gonio

Primary Application – Gonioscopy and Examination of the Central and Peripheral Fundus

- 60° mirror provides a view of the iridocorneal angle
- 66° mirror provides a retinal image from the equator to the ora serrata
- 76° mirror provides a view of the mid-peripheral/peripheral retina

Product code:

V3MIRD10



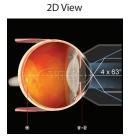
Volk®1 Single-Use 4-Mirror Gonio

Primary Application – Static and Dynamic Gonioscopy

• Four-mirror design allows for comprehensive examination and treatment of the trabecular meshwork with minimal lens rotation

Product code:

V4MIRD10



2D View



Diagnostic Imaging Devices







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.

- Retinal Module Pictor Plus retinal imaging enables non-mydriatic fundus examination with a 40° 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.









Digitize your fundus exam 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-complaint storage and export from iPhone to PC or Mac
- > Compatible with Apple iPhone 6s/6/5s and iPod Touch (Gen 6)









Surgical Viewing Systems & Surgical Lenses



Merlin Surgical System



The MERLIN® Surgical System is the finest system for noncontact vitreoretinal visualization. Using Volk's proprietary double aspheric lens technology, MERLIN delivers unmatched image resolution and depth-of-field, superior to any other non-contact system.

The MERLIN system features an exclusive Condensing Lens Assembly (CLA) that slides a condenser lens into the optical train when the system is engaged. The condenser lens minimizes the need for refocusing of the microscope. It also features an anti-reflection coating that significantly improves light transmission, reducing the risk of phototoxicity.

The unique design of the Lens Positioning Unit (LPU) is precisely aligned to the optical axis of the microscope and offers a simple pivoting mechanism that folds away when not in use. An intuitive fine focus wheel provides smooth, graduated adjustment to optimally position the lens.

3 Options to Suit your Lens Needs

All MERLIN lenses are designed using Volk's proprietary double aspheric lens technology. Built with PermaView $^{\text{m}}$ glass, lenses withstand repeat steam sterilization without degradation. Each lens is equipped with a hinge mechanism to ensure patient safety in case of accidental contact.

WIDE ANGLE

- Widest field-of-view, allowing visualization of the retina approaching the ora serrata
- Superior clarity and depth of field from the macula to the peripheral retina

MID-FIELD

ACS® Lens

- Higher magnification lens for clearest views of the macula
- Intermediate field-of-view allows visualization to the equator

SMALL WIDE ANGLE

ACS°Lens

- Smallest diameter lens, ideal for patients with small pupils or deep seated eyes, and pediatric cases
- Provides a very wide field-of-view, while maintaining superior clarity and depth-of-field

Reinverting Operating Lens System® (ROLS®)

The ROLS is an advanced panoramic viewing system that provides reinverted viewing during vitreoretinal surgery, delivering high resolution, correctly-oriented retinal images. ROLS is compatible with all surgical microscopes for viewing the retina with indirect contact surgical lenses and the MERLIN non-contact surgical viewing system.



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.

Removable magnetic latching handles facilitate cleaning and sterilization

ROLS ∞ (Infinity)

The ROLS∞ is our newest reinverter and provides superior image quality with minimal image shift. It is available in manual and powered versions. The powered version works with the Merlin surgical system, engaging automatically when the LPU is pivoted into place. The powered version can also be operated by an available footswitch.



Indirect Surgical Vitrectomy Lenses

Lens	Field of View	Image Mag.
HRX	130° / 150°	0.43x
MiniQuad® XL	112° / 134°	0.39x
MiniQuad [®]	106° / 127°	0.39x
DynaView	95° / 127°	0.39x
Central Retinal	73° / 88°	0.71x
Super Macula®	64° / 77°	1.03x



HRX Vit Lens

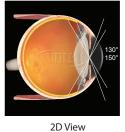
Primary Application – Far Peripheral Indirect Vitreoretinal Procedures

- 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

Self Stabilizing: VHRXVITSSV (as shown)





Field of View

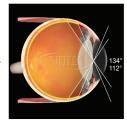


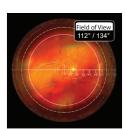
Mini Quad® XL

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) Self Stabilizing: VMQXLVITSSV





2D View Field of View

Indirect Surgical Vitrectomy Lenses

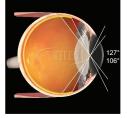


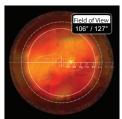
Mini Quad®

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 31)

Product code: VMQVIT (as shown) Self Stabilizing: VMQVITSSV





2D View

Field of View

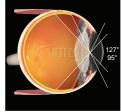


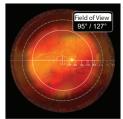
Dyna View

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

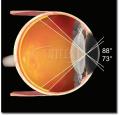


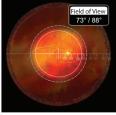
Central Retinal

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

- \bullet High resolution, high magnification imaging to the equator
- $\bullet \ \mathsf{Ideal} \ \mathsf{for} \ \mathsf{membrane} \ \mathsf{peeling}, \ \mathsf{retinal} \ \mathsf{tears} \ \mathsf{and} \ \mathsf{other} \ \mathsf{small} \ \mathsf{detail} \ \mathsf{procedures}$
- \bullet Available in standard and self stabilizing contact (SSV $^{\! \circ}\!)$ options
- Available in Autoclave Sterilizable design (see page 31)

Product code: VCRLVIT (as shown) Self Stabilizing: VCRLVITSSV





2D View

Field of View

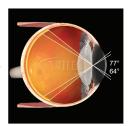


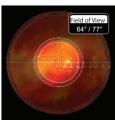
Super Macula®

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	0.32x	50 mm
28D ACS®	53° / 69°	2.27x	0.44x	33 mm

Autoclavable Indirect Surgical Vitrectomy Lenses

Lenses	Field of View	Image Mag.
HRX® ACS®	130° / 150°	0.43x
MiniQuad® ACS®	106° / 127°	0.48x
Central Retinal ACS®	73° / 88°	0.71x

Autoclavable Surgical BIO & Vit Lenses

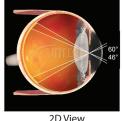


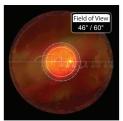
20D ACS

Primary Application – Industry Standard Diagnostic Lens in an Autoclavable Format

- Steam sterilizable for use in a surgical environment
- High quality Permaview[™] glass withstands the rigors of repeated sterilization
- Perfectly corrected for field curvature, astigmatism, aberrations and coma

Product code: V20LCACSPV





Field of View

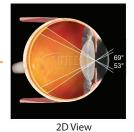


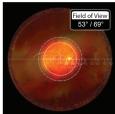
28D ACS

Primary Application – Fundus Scanning Lens in an Autoclavable Format

- Steam sterilizable for use in a surgical environment
- High quality Permaview™ glass withstands the rigors of repeated sterilization
- Excellent for small pupil diagnosis and treatment

Product code: V28LCACSPV





Field of View



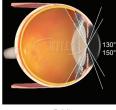
HRX ACS®

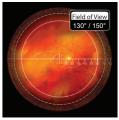
Primary Application – Widest Field Views for Vitreoretinal Procedures

- Superior high index glass design ensures widest field views of any vitrectomy lens
- Advanced aspheric design provides unmatched high resolution imaging
- Steam sterilizable for reduced processing time



VHRXVITACS (as shown) VHRXVITSSVACS





2D View

Field of View



Mini Quad® ACS®

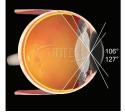
Primary Application – Peripheral Indirect Vitreoretinal Procedures

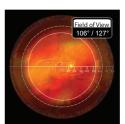
- Steam sterilizable for reduced processing time
- Smaller ring facilitates manipulation within the orbit
- Ideal for retinal detachments and giant retinal tears

Product code:

VMQVITACS

Self Stabilizing: VMQVITSSVACS (as shown)





2D View

Field of View



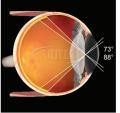
Central Retinal ACS®

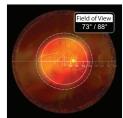
Primary Application – High Magnification Indirect Vitreoretinal Procedures

- High resolution, high magnification imaging to the equator
- · Steam sterilizable for reduced processing time
- Ideal for membrane peeling, retinal tears and other small detail procedures

Product code:

VCRLVITACS (as shown) Self Stabilizing: 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)	0.50x (mid field) 1.0x (AFX)
HR Direct High Mag	20°	1.40x
HR Direct 20° Prism	40° (offset 20°)	0.50x

HR Direct Image Surgical Vitrectomy Lenses



1 Y



1X (NSR)

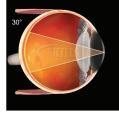
HR Direct 1x

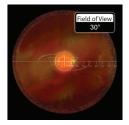
Primary Application – Direct Image Vitreoretinal Surgery of the Central Retina

- 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:

Stabilizing Ring: VHRD1XACS No Stabilizing Ring: VHRD1XNSRACS





2D View

Field of View

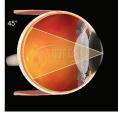


HR Direct Bi-Concave

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

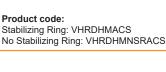


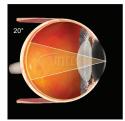
High Mag (NSR)

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





2D View



Field of View

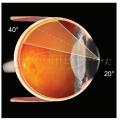


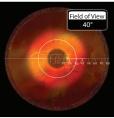
HR Direct 20° Prism

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)	30°	0.92x
Chalam High Mag 1.5 SSV® (ACS)	15°	1.50x
Chalam Mid Field SSV® (ACS)	40°	0.50x
Chalam 15° Prism SSV® (ACS)	30° offset	0.90x
Chalam 30° Prism SSV® (ACS)	30° offset	0.90x
Chalam 45° Prism SSV® (ACS)	30° offset	0.90x
Chalam AFX SSV [®] (ACS) (Air Fluid Exchange - Air filled eye)	30°	0.82x

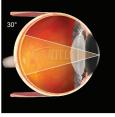


Direct Image Flat (ACS®)

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

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

Product code: VFLATSSVACS





2D View

Field of View

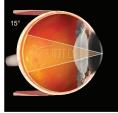


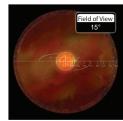
Primary Application – High Magnification Direct Image Vitreoretinal Surgery of the Central Retina

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









2D View

Field of View

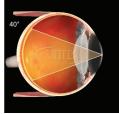
Direct Image Mid Field (ACS®)

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 reduced processing time







2D View



Field of View

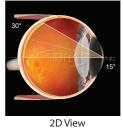
Direct Image Surgical Vitrectomy Lenses

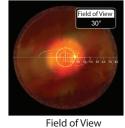
Direct Image 15° Prism (ACS®)

Primary Application – Off Axis Direct Image Vitreoretinal Surgery

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

Product code: **VPRISMSSVACS**





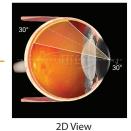


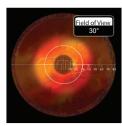
Direct Image 30° Prism (ACS®)

Primary Application – Off Axis Direct Image Vitreoretinal Surgery

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

Product code: V30PRISMSSVACS





Field of View

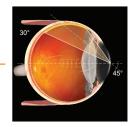


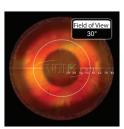
Direct Image 45° Prism (ACS®)

Primary Application – Off Axis Direct Image Vitreoretinal Surgery

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

Product code: V45PRISMSSVACS





2D View

Field of View

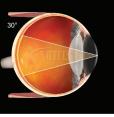
Direct Image AFX (ACS®)

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

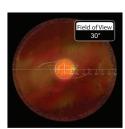
- Delivers high resolution central retinal imaging
- Steam sterilizable for reduced processing time







2D View



Field of View



Single-Use Surgical BIO Lenses

Volk®1 Single-Use Surgical BIO Lenses

Single-Use Surgical BIO Lenses combine high-quality optics that Volk is known for and the convenience of presterilization into a ready-to-use design. Volk's Single-Use Surgical BIO Lenses enable convenient pre- and postoperative examination and laser treatment.

Single-Use Lenses are pre-sterilized and individually-packaged in a Tyvek® pouch. Single-Use Lenses are sold in boxes of 10.

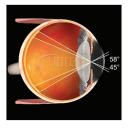


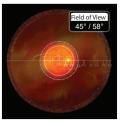
Volk®1 Single-Use 20D

Primary Application – Industry Standard Diagnostic Lens in a Single-Use Format

• Perfectly balanced magnification and field of view make this lens ideal for general diagnostic examination







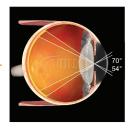


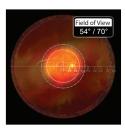
Volk®1 Single-Use 28D

Primary Application – Fundus Scanning Lens in a Single-Use Format

• Excellent for examination and treatment through a small pupil

Product code: V20LCD







Single-Use Surgical Direct Image Vitrectomy Lenses

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.

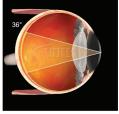
Lens	Field of View	Image Mag.
Volk [®] 1 Single-Use Flat	36°	1.0x
Volk®1 Single-Use Flat SSV®	30°	0.92x
Volk [®] 1 Single-Use Magnifying	30°	1.50x
Volk [®] 1 Single-Use Wide Field	48°	0.50x
Volk®1 Single-Use Bi-Concave	25°	0.80x
Volk®1 Single-Use 30° Prism	33° (offset 30°)	1.0x



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

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

Product code: Standard: VFD10 Self Stabilizing: VFLATSSVD10





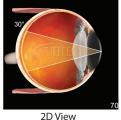
2D View Field of View



Volk®1 Single-Use Magnifying

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

Product code: VMD10



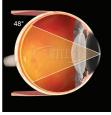


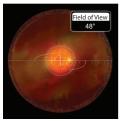
Field of View



Volk® 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





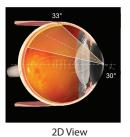
2D View

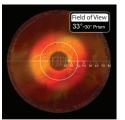
Field of View



Volk® 1 Single-Use 30° Prism Primary Application – Off Axis Direct Image Vitreoretinal Surgery

Product code: V30PD10





Field of View

Research Lenses

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



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

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
- $\bullet \ \mathsf{Ideal} \ \mathsf{for} \ \mathsf{use} \ \mathsf{on} \ \mathsf{Volk} \ \mathsf{lenses}, \mathsf{microscope} \ \mathsf{eyepieces}, \mathsf{cameras} \ \mathsf{and} \ \mathsf{other} \ \mathsf{precision} \ \mathsf{optical} \ \mathsf{surfaces}$
- Packaged in boxes of 24. Bulk case purchase contains 108 boxes

Product code: Box: VPOLC1 Case: VPOLCCASE

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:



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 reduced 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 reduced processing time

Product code:

Mini Quad and Central Retinal: VVITHAN-LG HRX, Mini Quad XL and Super Macula: VVITHAN-MQXL



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: Small Tray: VSCA Large Tray: VSCB

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 out this enquiry form and mail it to: Volk Optical Inc. $+1\,440\,942\,2257$

Name	
Address	
Town/City	
County/State	
Post/Zip	
Country	
, Tel	Fmail

Specify lenses you have to put in your multi-lens case:

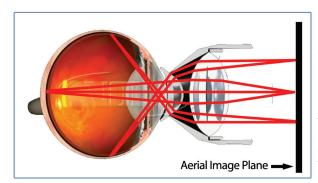
Case 1:	Case 2:
Lens 1	Lens 1
Lens 2	Lens 2
Lens 3	Lens 3
Lens 4	Lens 4
Lens 5	Lens 5
Lens 6	Lens 6

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.



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 2 mm 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, or phone (1-800-345-8655).

Please provide complete shipping and billing information with your order.

Volk honors Discover, Visa, MasterCard, and 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 website. Authorized Distributor contact information is available from Volk.

5 easy ways to order!



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Authorized Volk Distributor



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buy it online the volkStore



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



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

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