



OUR GENERATIONS

From the Classic 20D, 78D and 90D lenses, Volk's lenses have evolved through the second generation (Super Series) to the current, third generation (Digital Series) for the highest quality retinal imaging available.

1ST GENERATION



20D: Most popular lens for general BIO exams

90D: Most popular lens for examination at the slit lamp and great for small pupils

78D: Complements the 90D but with higher magnification for central retinal examination

2ND GENERATION



Pan Retinal 2.2: 22% wider field of view than the 20D

Super Field: 30% wider field of view than the 90D

Super 66: Complements the 90D, but with a higher magnification to use for central retinal examination

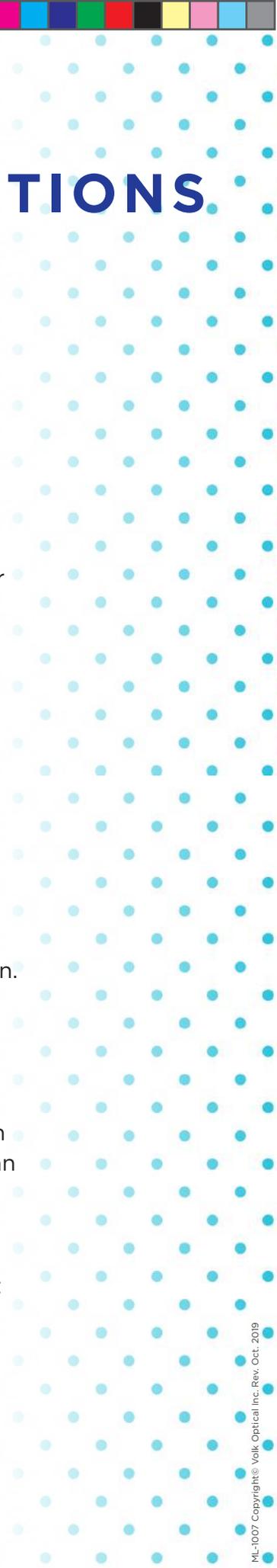
3RD GENERATION



Digital Clear Field: Highest resolution diagnostic BIO lens

Digital Wide Field®: Ultimate 90D power lens with 40% wider field of view than the 90D

Digital High Mag®: The highest magnification and finest resolution lens for detailed central retinal views.



FREQUENTLY ASKED QUESTIONS

What are aspheric lenses and why are they better?

Lenses with spherical surfaces inherently have peripheral lens distortion. Volk's indirect lenses are aspheric on both surfaces to reduce these distortions and provide an accurate view of the retina all the way to the edge of the lens.

Why do lenses have a coating?

High quality optics are coated to maximize visible light transmission as well as reduce glare and reflections during exams. They are also used to maximize laser energy throughput during treatment.

Why do I need more than one lens?

Diagnostic & therapeutic lenses each have a purpose - and although many can provide you with a good balance of magnification & field of view, no single lens will provide you with everything.

You don't necessarily need every "club in the bag," however you do need more than a driver!

How do you determine lens power?

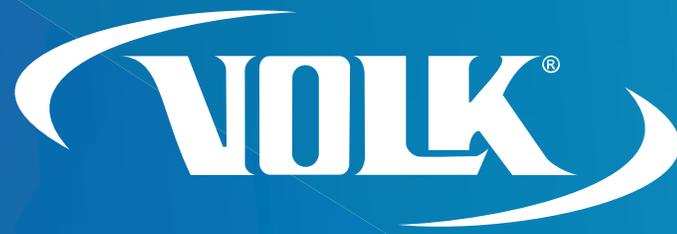
Lens power is commonly measured in 'diopters' (eg. 90 diopters). Generally, an increase in diopter power results in a wider field of view and lower magnification.

What's better, a "flanged" or a "non-flanged" contact element?

A flanged element offers better stability on the eye. It is also less prone to the patient blinking off the lens. We always recommend a flanged lens for laser procedures. A non-flanged lens enables you to perform a quicker, simpler exam as coupling fluid is not required. You can also perform scleral indentation with an appropriate no-flange gonio lens.

How do I clean my lenses?

Rinse the lens in running water to remove particles. Clean with a mild detergent and lint free cotton cloth. In addition, do not use micro-fiber cloths as they may damage the coating. Always be sure to rub the lens in a clockwise direction to prevent the glass element from loosening over time.



SEEING THE FUTURE
VOLK STUDENT BROCHURE

QUALITY YOU CAN SEE

WHO WE ARE



At Volk, our purpose is to eradicate preventable blindness through accessible imaging of the eye. We are a leading manufacturer of ophthalmic lenses, diagnostic imaging, and surgical products in the ophthalmic device industry.

Since 1974, Volk has been servicing distributors and customers in over 100 countries! Volk products are designed and manufactured in Mentor, Ohio, USA.

WHAT ARE CONDENSING LENSES?



Condensing lenses are used in conjunction with a Binocular Indirect Ophthalmoscope (BIO) or a slit lamp in order to produce a focused image of the retina.

They condense light from the BIO or slit lamp through the pupil onto the retina.

An inverted image is created that is then viewed through the slit lamp or BIO. The indirect image seen presents a far greater area of the retina than a direct ophthalmoscope would.

BIO LENSES



You'll need a general diagnostic lens which offers a good balance of magnification and field of view. This is the lens that you will be using on nearly every single exam, so superior imaging & quality are important. We suggest the 20D, Pan Retinal® 2.2 or Digital Clear Field. Each has a double aspheric design and is made of glass for the highest image quality.

To achieve a wider field of view or to view through smaller pupils, consider the 28D or the 30D. You'll sacrifice a bit of magnification but gain peripheral viewing capability - plus it's easier to use with a shorter working distance.

SLIT LAMP LENSES



The Volk 90D, Super Field NC® or Digital Wide Field® are excellent choices as general diagnostic lenses. They offer an ideal balance of magnification and field of view as well as small-pupil viewing capability. The 90D is the traditional favorite and very easy to use for beginners.

For detailed, high magnification examination of the optic nerve head and macula, consider the 78D, Super 66® or the Digital High Mag®

TECHNICAL SPECIFICATIONS

BIO LENSES

LENS	FIELD OF VIEW	IMAGE MAGNIFICATION	WORKING DISTANCE
Macula Plus® 5.5	36°/43°	5.50x	80 mm
14D	36°/47°	4.30x	75 mm
15D	36°/47°	4.11x	72 mm
20D	46°/60°	3.13x	50 mm
Pan Retinal® 2.2	56°/73°	2.68x	40 mm
25D	52°/68°	2.54x	38 mm
28D	53°/69°	2.27x	33 mm
30D	58°/75°	2.15x	30 mm
40D	69°/90°	1.67x	20 mm
Digital Clear Mag	38°/49°	3.89x	60 mm
Digital Clear Field	55°/72°	2.79x	37 mm

SLIT LAMP LENSES

LENS	FIELD OF VIEW	IMAGE MAGNIFICATION	WORKING DISTANCE
60D	68°/81°	1.15x	13 mm
78D	81°/97°	0.93x	8 mm
90D	74°/89°	0.76x	7 mm
Super 66°	80°/96°	1.0x	11 mm
SuperField®	95°/116°	0.76x	7 mm
Super VitreoFundus®	103°/124°	0.57x	4-5 mm
SuperPupil® XL	103°/124°	0.45x	4 mm
Digital Wide Field®	103°/124°	0.72x	4-5 mm
Digital High Mag®	57°/70°	1.30x	13 mm
Digital 1.0x Imaging	60°/72°	1.0x	12 mm

GONIO LENSES

LENS	FIELD OF VIEW	IMAGE MAGNIFICATION	CONTACT DIAMETER
G-1 Gonio, Flange	1 x 62°	1.50x	15 mm
G-1 Gonio, No Flange	1 x 62°	1.50x	8.4 mm
G-2 Gonio, Flange	60°/64°	1.50x	15 mm
G-2 Gonio, No Flange	60°/64°	1.50x	8.4 mm
G-3 Gonio, Flange	60°/66°/76°	1.06x	15 mm
G-3 Gonio, No Flange	60°/66°/76°	1.03x	11.4 mm
3 Mirror, No Flange	60°/66°/76°	1.06x	15.3 mm
3 Mirror, ANF+	60°/66°/76°	1.06x	18 mm
Mini 4-Mirror, ANF+	4 x 62°	1.0x	15 mm
G-4 Gonio, Flange	4 x 64°	1.0x	15 mm
G-4 Gonio, No Flange	4 x 64°	1.0x	8.4 mm
G-4 High Mag Gonio, Flange	4 x 64°	1.5x	15 mm
G-4 High Mag Gonio, No Flange	4 x 64°	1.5x	8.4 mm
G-6 Gonio, No Flange	6 x 63°	1.0x	8.4 mm

ANF+ = Advanced No Fluid. The ANF+ lens does not require coupling fluid for routine examination.