

# STRAIGHT TO THE POINT WITH PATIENTS VISUAL OUTCOMES

Monofocal plus IOL



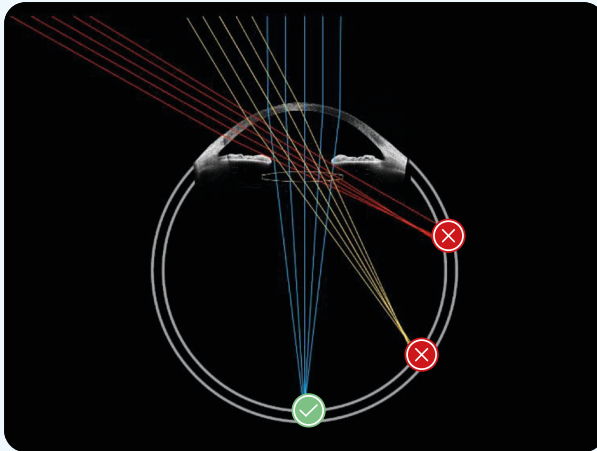
ArtIOLs<sup>®</sup>  25

First IOL mimicking the optical  
performance of the human lens

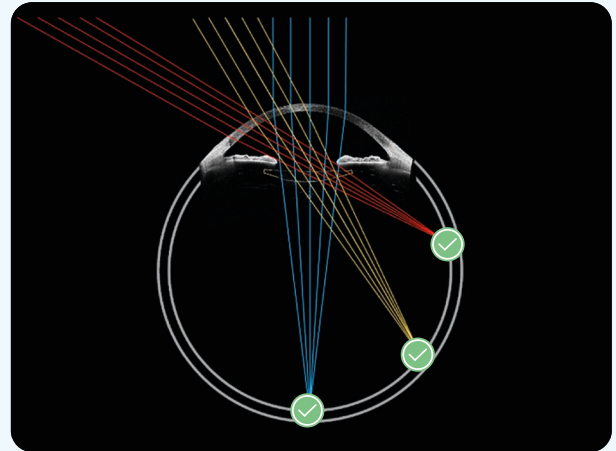
VOPTICA

# ADVANCED OPTICAL TECHNOLOGY

The ArtIOLs® reproduce the imaging formation properties of the **natural crystalline lens** in the periphery of the retina with their **inverted meniscus design**<sup>1</sup>



Biconvex IOL



**ArtIOLs®**  
Inverted Meniscus IOL

The ArtIOLs® inverted meniscus design **minimizes negative dysphotopsias**<sup>2</sup>



Standard IOL (Biconvex)<sup>3</sup>



**ArtIOLs®** (Inverted meniscus)

1. Villegas EA et al. Peripheral, Refraction and Contrast Detection Sensitivity in Pseudophakic Patients Implanted With a New Meniscus Intraocular Lens. J Refract Surg. 2022 Apr;38(4):229-234

2. Harilaos G, et al. Quantification And Analysis Of Negative Dysphotopsia And Associated Phenomena In A Physical Model Of The Eye. Invest. Ophthalmol. Vis. Sci. 2022;63(7):1798 – F0414.

3. Pusnik A, et al. Dysphotopsias or Unwanted Visual Phenomena after Cataract Surgery. Life (Basel). 2022 Dec 24;13(1):53.

**ArtIOLs® provide a field of curvature to match the shape of the retina, achieving correction of myopic errors up to 2.00D at 40° of excentricity<sup>1</sup>**

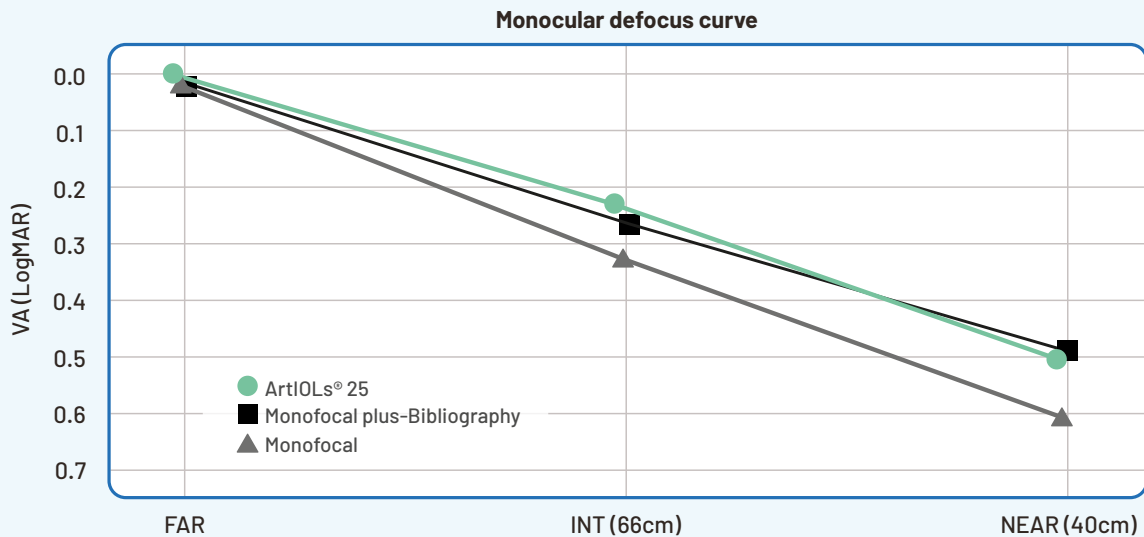
Visual metrics	Standard IOL (Biconvex)	ArtIOLs® (Inverted meniscus)
Central optics <sup>1</sup>	✓	✓
Less peripheral defocus and astigmatism <sup>1</sup>	✗	✓
Less peripheral distortion <sup>4</sup>	✗	✓
Superior Peripheral Contrast <sup>1</sup>	✗	✓

1. Villegas EA et al. Peripheral, Refraction and Contrast Detection Sensitivity in Pseudophakic Patients Implanted With a New Meniscus Intraocular Lens. J Refract Surg. 2022 Apr;38(4):229-234

4. Robles et. al. Inverted meniscus IOLs reduce retinal distortion in the peripheral visual field. Invest. Ophthalmol. Vis. Sci. June 2022, Vol.63, 3508.

## PROPRIETARY ASPHERIC ANTERIOR AND POSTERIOR SURFACES

**ArtIOLs® 25 extend the depth of focus and provide superior visual outcomes at intermediate and near distances when compared to standard Monofocal IOLs<sup>5</sup>**



5. Voptica data on file: PRJ-INV\_006



# ArtIOLs®

## TECHNICAL SPECIFICATIONS



### Optics

Lens type	Single piece foldable lens
Optical design	Aspheric optics with extended depth of focus
Shape	Inverted meniscus
Material	Hydrophobic Acrylic UV absorbing and blue light filter
Power range	+10.00 to + 30.00 Diopters (0.50D steps)
Optical diameter	6.0 mm
Total diameter	13.0 mm
Refractive index	1.54 (glistening free)
Edge design	Square

### Optical Biometry

Suggested A-Constant*	ArtIOLs® 25
SRK/T	120.0
Haigis	a0=0.720, a1=0.297 and a2=0.169

### Haptics

Haptic design	C-L haptic
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### Delivery System

Injector-Cartridge set	Single use
Recommended incision size	≥ 2.2mm
Lens delivery	Single handed plunger – Preloaded coming soon

\*It is recommended that surgeons personalize the constants they use.

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