STRAIGHT TO THE POINT WITH PATIENTS VISUAL OUTCOMES

Monofocal plus IOL

ArtIOLs® 25

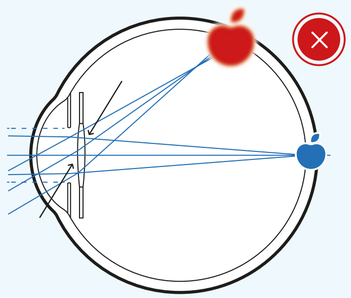
First IOL mimicking the optical performance of the human lens

VOPTICA

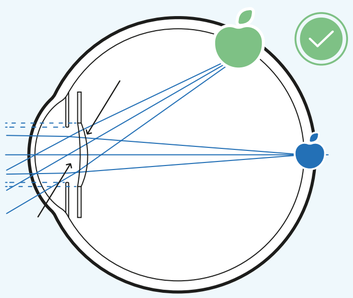
SMART VISUAL OPTICS

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**[1]

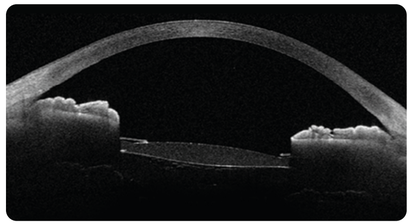


Standard IOL
(Biconvex)

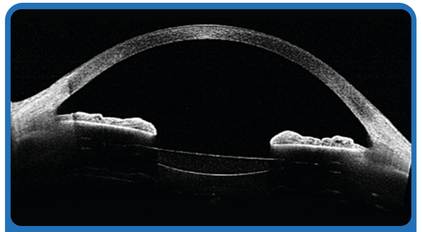


ArtIOLs®
(Inverted meniscus)

Patients implanted with **ArtIOLs®** present a **reduction of spherical equivalent by 1.97D** at **40º of temporal eccentricity** compared to standard biconvex IOLs[1]



Biconvex IOL



ArtIOLs®
Inverted Menuscus IOL

Anterior chamber OCT image of an implanted inverted meniscus ArtIOLs® in comparison with a standard biconvex IOL[2]

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. Marín JM, et al.Visual Performance at All Distances and Patient Satisfaction With a New Aspheric Inverted Meniscus Intraocular Lens. J Refract Surg. 2023 Sep;39(9):582-588.

The ArtIOLs® inverted meniscus design **minimizes negative dysphotopsias**[3]

Standard IOL (Biconvex)[4]

ArtIOLs® (Inverted meniscus)

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

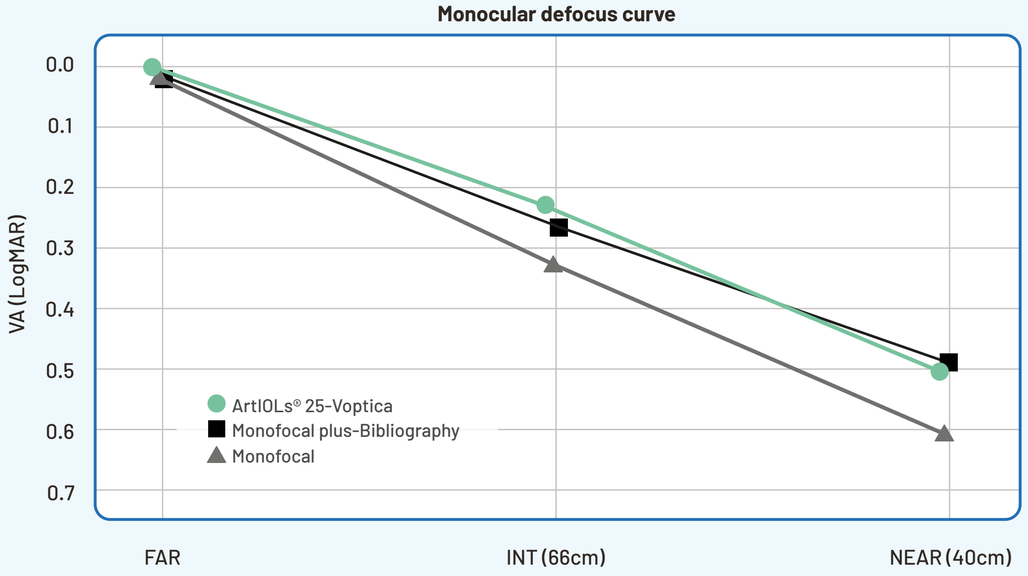
ArtIOLs provide a field of curvature to match the shape of the retina, achieving **correction of myopic errors up to 2.00D at 40º of excentricity**[1]

Visual metrics	Standard IOL (Biconvex)	ArtIOLs® (Inverted meniscus)
Central optics[1]	✓	✓
Less peripheral defocus and astigmatism[1]	✗	✓
Less peripheral distortion[5]	✗	✓
Superior Peripheral Contrast[1]	✗	✓

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
5. Robles C, et al. Inverted meniscus IOLs reduce retinal distortion in the peripheral visual field. Invest. Ophthalmol. Vis. Sci. 2022;63(7):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 IOL[6]



6. Voptica data on file: PRJ-INV_006

ArtIOLs® 25

TECHNICAL SPECIFICATIONS

voptica.com

Support:

info@voptica.com

(0034) 868 881 714

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	+12.00 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

Delivery System

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

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

CE

2460

Caregroup Sight Solution P.L.

MP-TR-013

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