

ArtiOLs®

Sai
International Co. 

PORTFOLIO OVERVIEW 2026



The inverted Meniscus IOL Family

A complete portfolio engineered to mimic the optical performance of the natural crystalline lens - delivering superior peripheral vision, minimised dysphotopsias and a customisable range of focus.

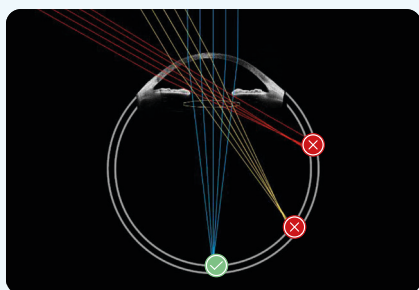


01. THE TECHNOLOGY

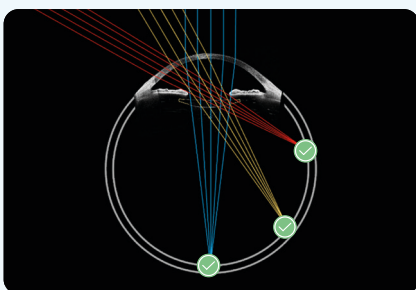
Engineered to mimic the **crystalline lens**

A NEW CONCEPT

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



Biconvex IOL



ArtIOLs®
Inverted Meniscus IOL

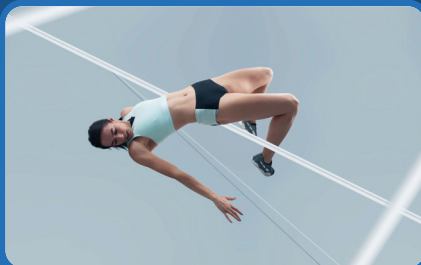
Clinical benefits of the platform

- ✓ **Superior peripheral vision** – better contrast detection at $\pm 40^\circ$ vs. standard biconvex IOLs¹.
- ✓ **Reduced negative dysphotopsias**² – geometry mitigates the temporal dark crescent.
- ✓ **Non-diffractive optics** – minimises halos, glare and starbursts³.
- ✓ **Customisable range of focus** – three aspheric profiles induce different levels of negative spherical aberration.
- ✓ **Safer daily function** – improved peripheral contrast supports driving, orientation and fall prevention in the elderly.
- ✓ **Surgeon-friendly** – single-piece, foldable, C-loop haptic, 2.2 mm incision compatible.

The ArtIOLs® inverted meniscus design **minimizes negative dysphotopsias**



Standard IOL (Biconvex)⁷



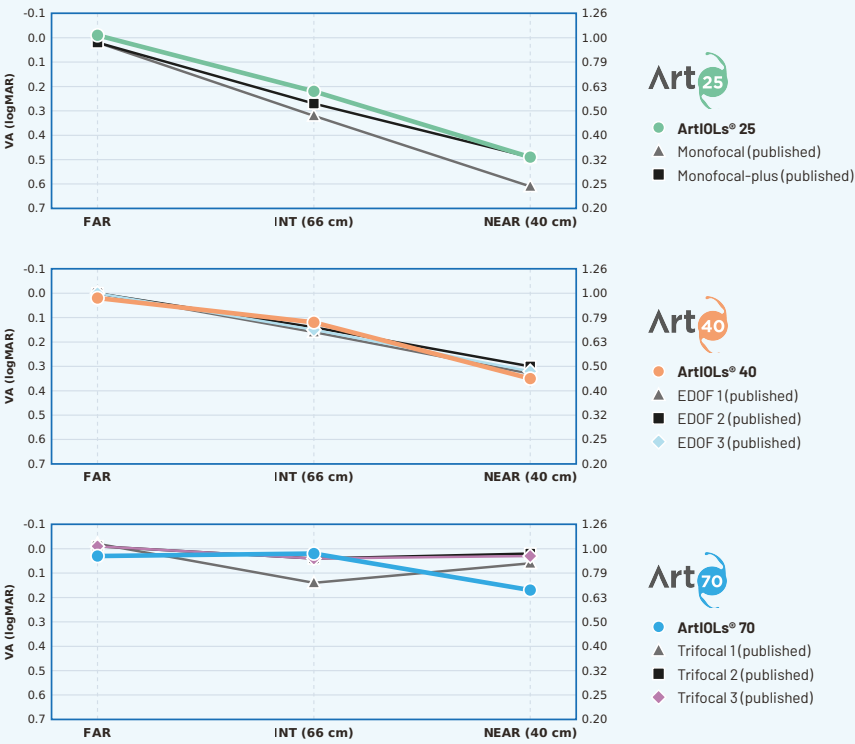
ArtIOLs® (Inverted meniscus)

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. Ginis H, 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

Visual acuity by distance – each profile against published benchmarks⁴



4. Voptica data on file. Benchmark curves from published data (mean uncorrected VA at far, 66 cm and 40 cm).

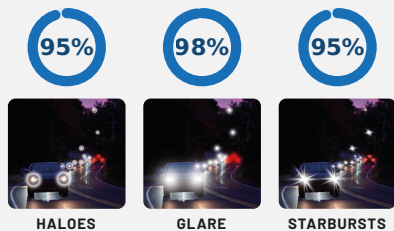
Refractive accuracy⁶

Post-op spherical equivalent (D)	Median	SD
Art25 (n = 104)	-0.12	±0.44
Art40 (n = 285)	-0.25	±0.36
Art70 (n = 158)	-0.58	±0.37
UCVA post-op (logMAR)	Mean	SD
Art25 (n = 366)	0.05	±0.06
Art40 (n = 313)	0.03	±0.06
Art70 (n = 155)	0.03	±0.06

6. Voptica data on file.

The Quality of Vision (QoV) Questionnaire

Percentage of patients never having experienced⁷



ArtIOLs® non-interrupted and non-stepped optical surface minimizes visual disturbances⁵.

5. Marin 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. 7. McAlinden C, et al. The Development of an Instrument to Measure Quality of Vision: The Quality of Vision (QoV) Questionnaire. Invest. Ophthalmol. Vis. Sci. 2010;51(11):5537-5545.

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 (0.50 D 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 / ArtIOLs® 40 / ArtIOLs® 70
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	≥ 2.2 mm
Lens delivery	Single-handed plunger – Preloaded coming soon

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

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