RAISING THE BAR WITH PATIENT OUTCOMES

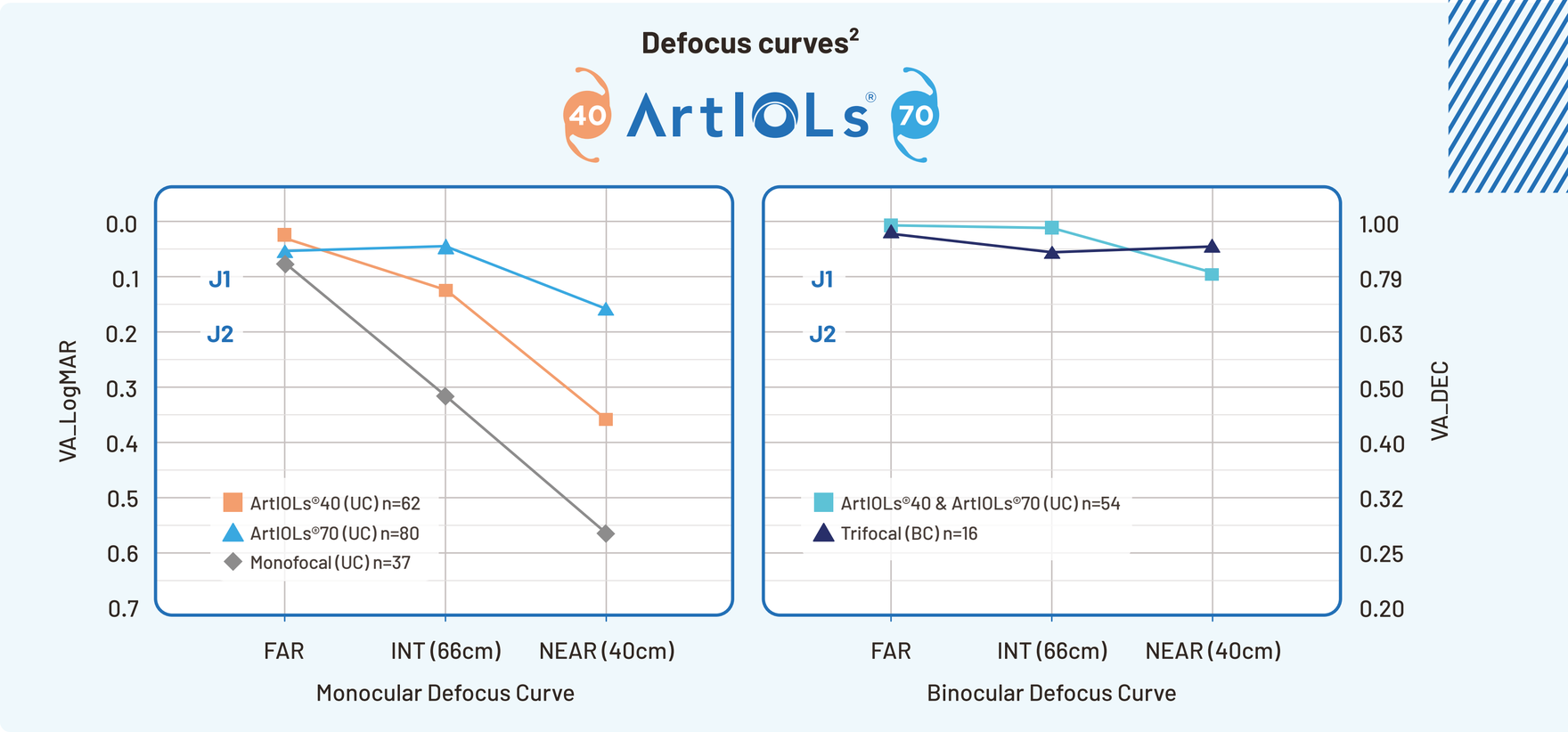
Full Range of Focus Non-Diffractive IOLs

40 ArtIOLs® 70

First IOLs mimicking the optical perfomance of the human lens

VOPTICA
SMART VISUAL OPTICS

The bilateral implantation of ArtIOLS® 70 together with ArtIOLS®40 delivers a full range of focus and excellent VA at all distances[1].

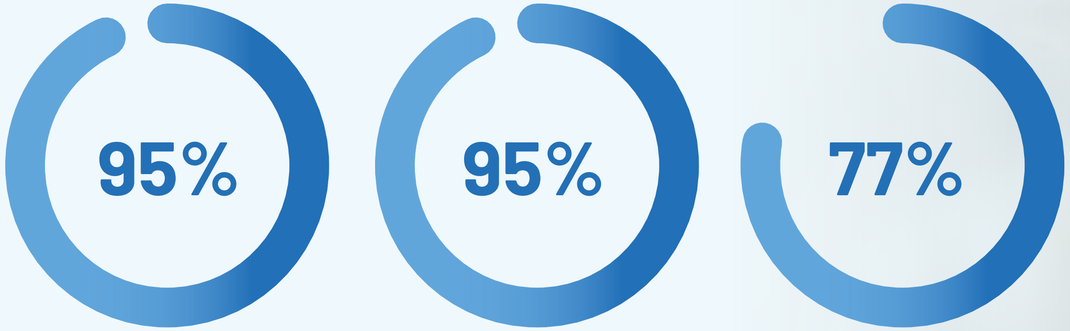


Monocular distance-corrected contrast sensitivity for ArtIOLs® 70 & ArtIOLs® 40 with different depth of focus, were identical at all spatial frequencies[2] and comparable to monofocal IOLs[3]

1. 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.
2. Data onfile PRJ-INV_005 (37 patients)
3. Macias- Murelaga B, et al. Prediction Error Stabilization and Long-Term Standard Results with a Monofocal Intraocular Lens. Vision 2022;6(1):5.

HIGH SPECTACLE INDEPENDENCE

Percentage of patients reporting spectacle independence[2]



FAR INTERMEDIATE NEAR

Patient-Reported Spectacle Independence Questionnaire (PRSIQ)[4]

2. Data on file PRJ-INV_005 (43 patients)
4. Morlock R, et al. Patient-Reported Spectacle Independence Questionnaire (PRSIQ): Development and Validation. Am J Ophthalmol. 2017 Jun;178:101-114.

HIGH QUALITY OF VISION

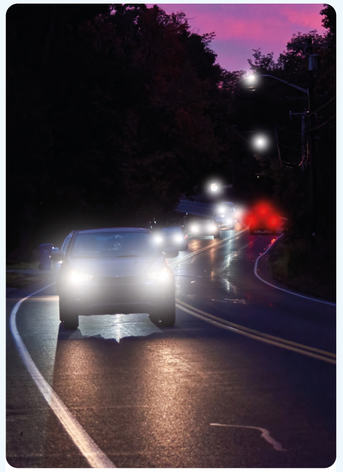
Percentage of patients never having experienced[2]

The Quality of Vision (QoV) Questionnaire[5]

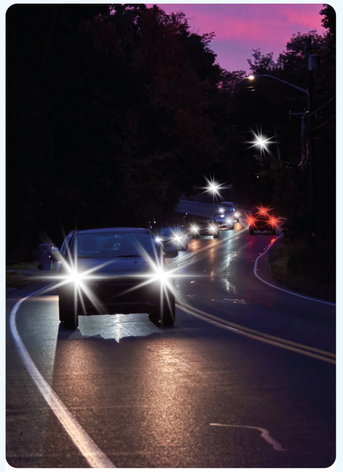
2. Data on file PRJ-INV_005 (43 patients)
5. McAlinden C, et al. The Development of an Instrument to Measure Quality of Vision: The Quality of Vision (QoV) Questionnaire. Invest. Ophthalmol. Vis. Sci. 2010;51(11):5537-5545

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

Haloes



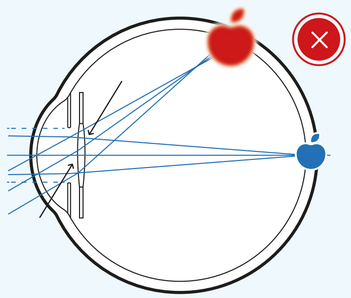
Glare



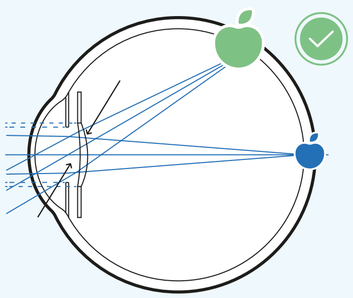
Starbursts

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**[6]

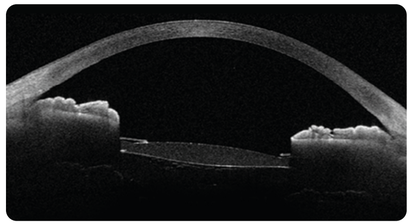


Standard IOL
(Biconvex)

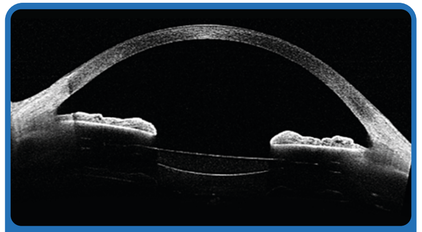


ArtIOLs®
(Inverted meniscus)

Patients implanted with **ArtIOLs®** present a **reduction of spherical equivalent by 1.97D** at **40º of temporal eccentricity** compared to standard biconvex IOLs[6]



Biconvex IOL

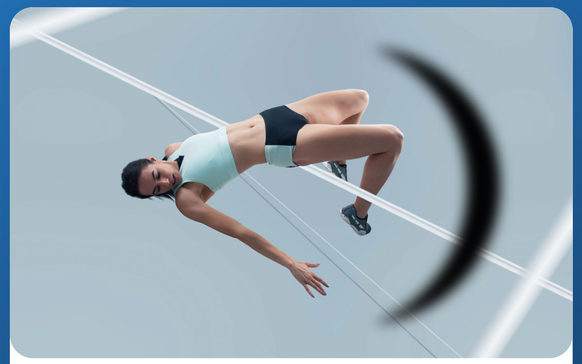


ArtIOLs®
Inverted Menuscus IOL

Anterior chamber OCT image of an implanted inverted meniscus ArtIOLs® in comparison with a standard biconvex IOL[1]

1. 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.
6. 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

The ArtIOLs® inverted meniscus design **minimizes negative dysphotopsias**[7]



Standard IOL (Biconvex)[8]

ArtIOLs® (Inverted meniscus)

7. 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.
8. Pusnik A, et al. Dysphotopsias or Unwanted Visual Phenomena after Cataract Surgery. Life (Basel). 2022 Dec 24;13(1):53

ArtIOLs®

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 ® 70 / ArtIOLs ® 40
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

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MP-TR-0010

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