


The Next Evolution in Non-Diffractive Optics

Asqelio™ EDOF IOL
Phase-Ring™ Technology*





Deliver true visual freedom with the uncompromising clarity of a superior non-diffractive design. Asqelio™ EDOF offers the continuous range of vision your patients desire, with a safety profile comparable to a monofocal, leading to predictable outcomes and proven satisfaction.

94 %

Freedom of Vision

The core promise, delivered. 94% of patients achieved excellent spectacle-free vision for distance and intermediate activities, empowering an active lifestyle.¹

92 %

Confidence, Day & Night

Designed for real-world reliability. 92% of patients reported satisfaction with their vision in low-light conditions, ensuring peace of mind when driving at night.^{1,2}

75 %

Optimized for Modern Life

Built for today's needs. 75% of patients perform daily near activities spectacle-free.^{1,2}

Fusion of Technologies for Exceptional Vision

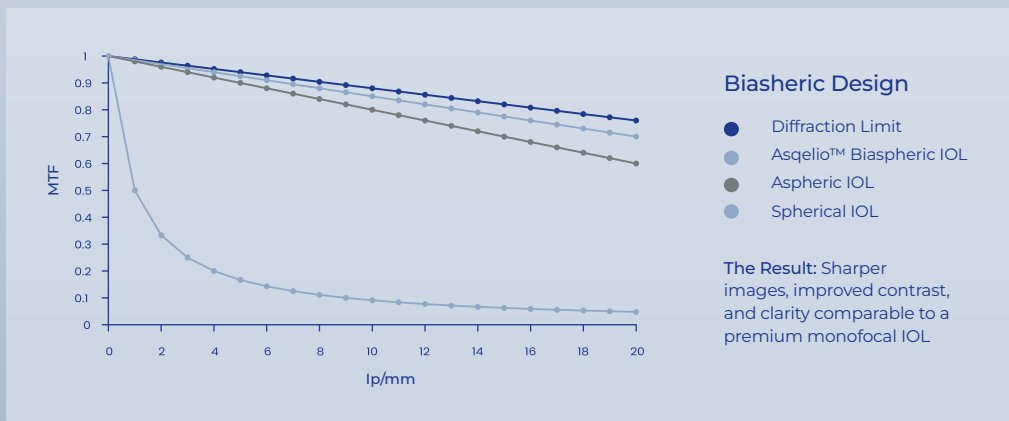
The Foundation It Starts with a Purer Image.

The quality of an EDOF lens depends on its optical design. **Asqelio™** combines a biaspheric platform for image clarity with proprietary **Phase-Ring™ Technology*** to extend focus seamlessly and without compromise

Everything starts with a crystal-clear image. **Asqelio™** uses a biaspheric platform to neutralize aberrations and maximize image quality, ensuring the highest clarity and contrast before extending depth of focus.

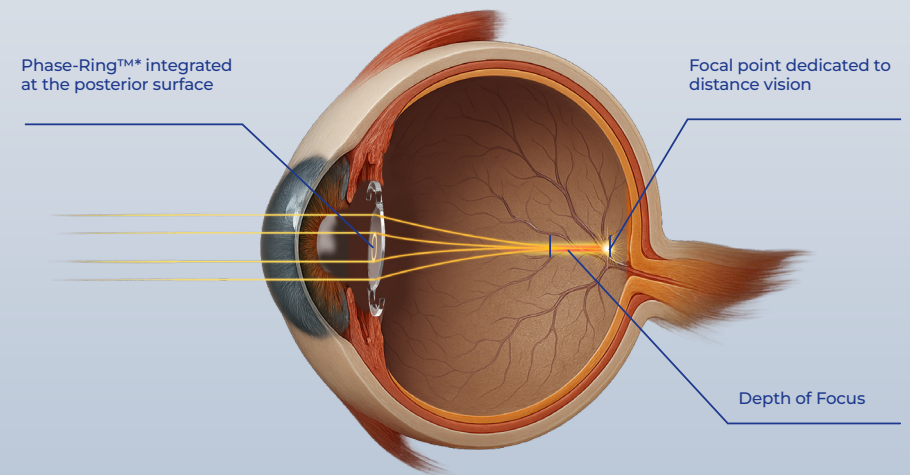


Images simulated for a 6mm pupil size



The Mechanism Patented Phase-Ring™ Technology*.

Building on this foundation, our patented **Phase-Ring™ Technology***—inspired by axicon lenses—uses wavefront tailoring and a precisely engineered posterior surface to create a single elongated focal range, extending focus while preserving optical quality and minimizing disturbances.



The Result

The **Asqelio™** EDOF optical design creates an extended range of clear vision. This results in a smooth, continuous transition from intermediate to distance, free from the visual jumps or light loss associated with other approaches.

Continuous and Clear Vision

at distance and intermediate range, functional near in one-third of patients.

Superior Image Quality

with stable performance across various lighting conditions.

Nighttime Safety

Stable distance vision in low light conditions, without refractive shift.

Reduced Halo Effect

Safer vision in low-light and nighttime environments.

*Patent Pending

Quality Vision Starts with High Performance Materials

High-quality vision begins with a high-performance, glistening-free (Miyata grade 0)³ soft hydrophobic acrylic material. Our manufacturing process incorporates Cryolathing Technology, enabling ultra-precise shaping at cryogenic temperatures. This ensures superior surface smoothness and optical performance.

Low Chromatic Aberration

Asqelio™ material with a High Abbe number, 50, minimizes longitudinal chromatic aberration, contributing to increased image sharpness and improved contrast sensitivity⁴.



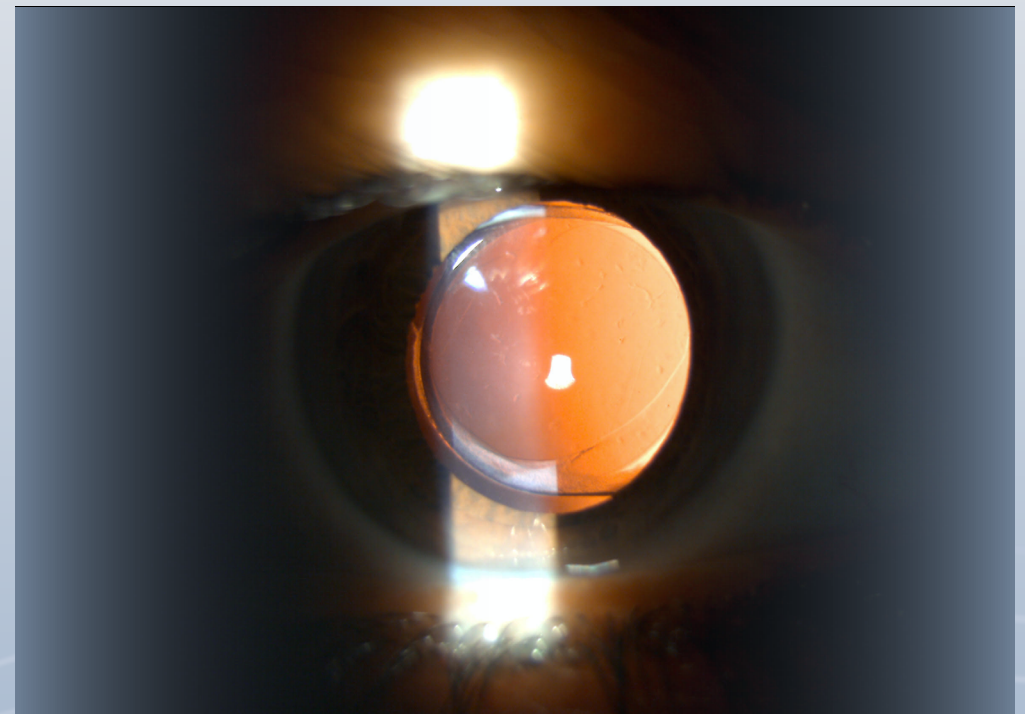
Simulated images to illustrate the visual impact of chromatic aberrations

Natural Lens Transmittance

Asqelio™ material delivers high light transmittance and superior transparency, integrating advanced UV protection that blocks 99% of UVB and 90% of UVA.



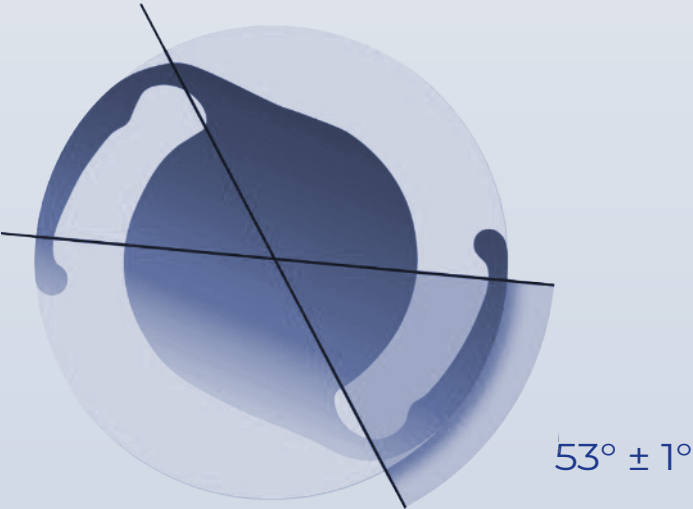
Reduced PCO



Markedly low PCO prevalence,³ supported by an advanced squared, curved, and frosted posterior haptic design

Exceptional Rotational Stability

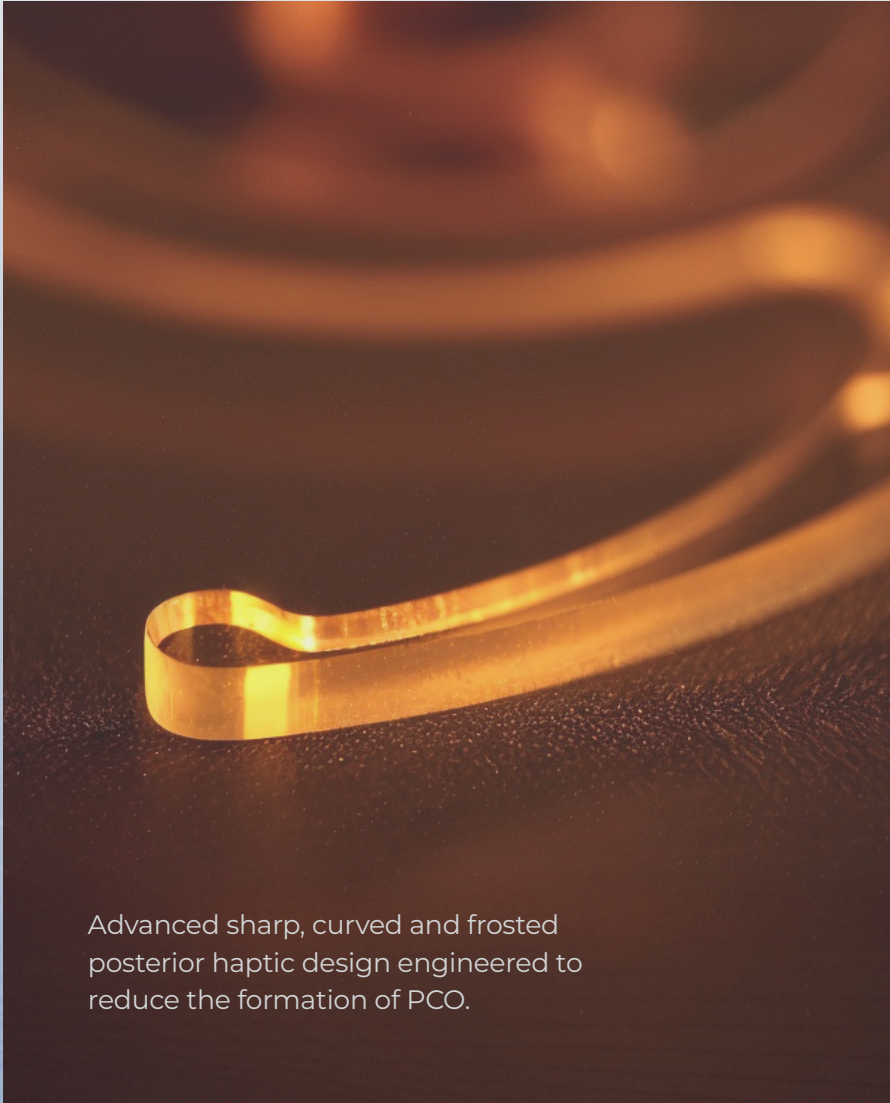
Two surfaces, one mission: perfection. The lens is polished for flawless clarity. The haptic is precision-milled for a frosted finish. The advanced haptic and optic edge design features a unique combination of a continuous 360° sharp edge and a frosted haptic surface. This platform is meticulously engineered to ensure both rotational stability and long-term clarity.⁵



Asqelio™
10 mm capsular bag

Protects the capsule's fragility and helps prevent ovalization and/or striae of the capsular bag.

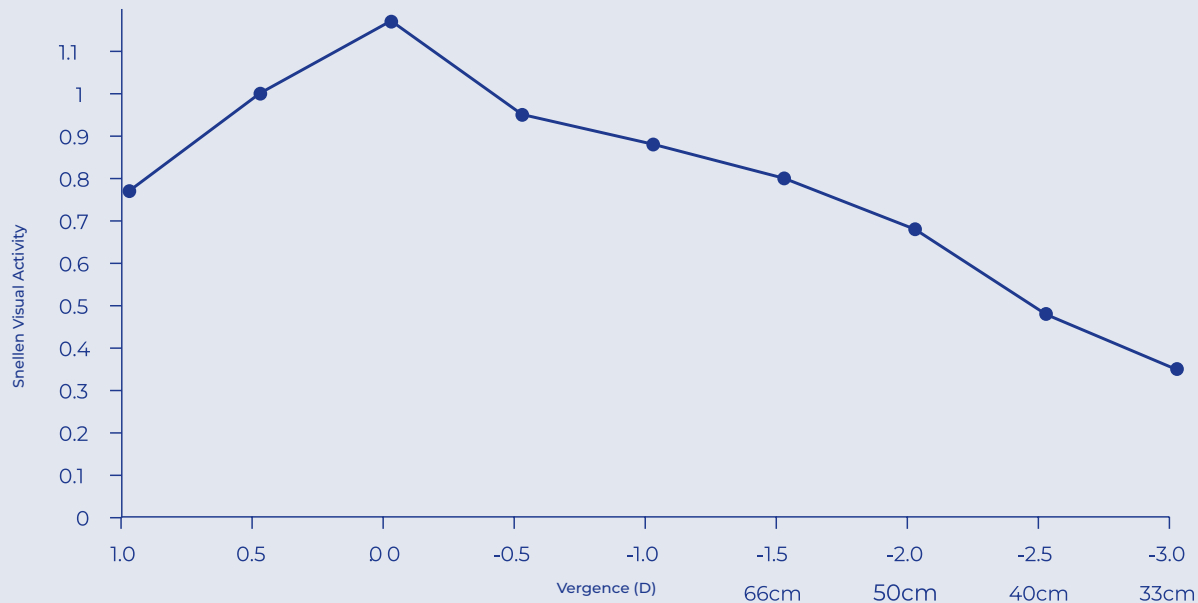
The wider contact angle of 106° provides better rotational stability.



Advanced sharp, curved and frosted posterior haptic design engineered to reduce the formation of PCO.

Clinical Data You Can Trust

Defocus Curve Refractive Outcomes



90%

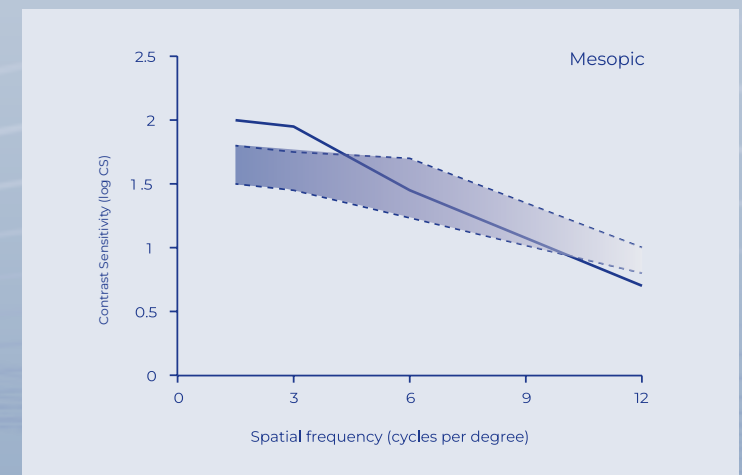
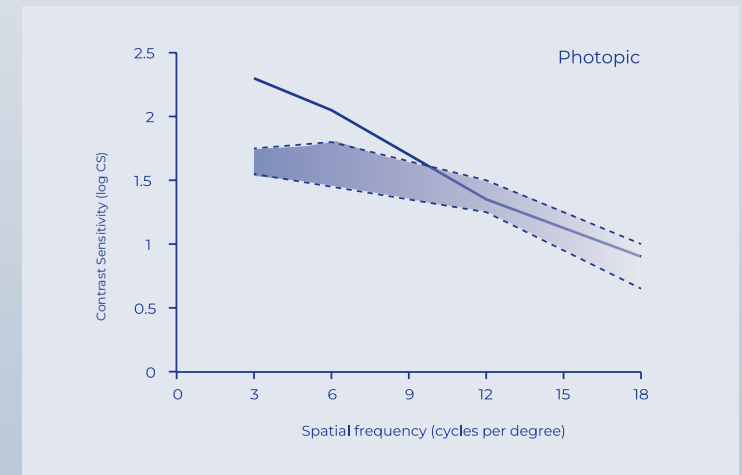
Spectacle independence-Distance Intermediate 100%.

58%

Up to 58% of patients achieved functional near vision.

Contrast Sensitivity

Contrast sensitivity values support **Asqelio™** EDOF efficacy in real-life scenarios, including night driving. Patients implanted with **Asqelio™** demonstrated contrast sensitivity comparable to or better than healthy, non-operated eyes of similar age.⁶



Clinical Data You Can Trust

Dysphotopsia incidence comparable to monofocal IOLs



Refractive Technology

Asqelio™ Monofocal



Refractive Technology

Asqelio™ EDOF
Phase-Ring™ Technology*

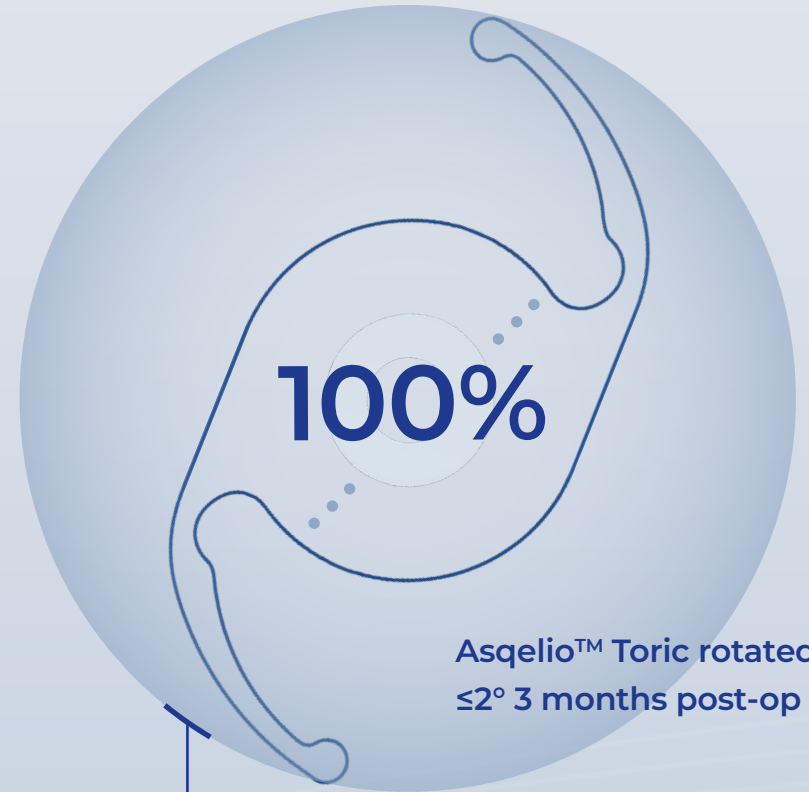
100 %

of patients expressed overall satisfaction with their visual outcome.^{1,2,6}

90%

of patients reported no significant dysphotopic phenomena.^{1,2,6}



Exceptional Rotational Stability



100%

Asqelio™ Toric rotated $\leq 2^\circ$ 3 months post-op ⁵

Mean rotation 3 months post-op $\leq 0.25 \pm 0.65$ ⁵

	 Asqelio™ EDOF	 Asqelio™ EDOF Toric
Model	ELI0130C (clear), ELI0130Y (yellow)	ETL0130C (clear), ETL0130Y (yellow)
Preloaded Model	EPI0130C (clear), EPI0130Y (yellow)	EPT0130C (clear), EPT0130Y (yellow)
Material	Single piece hydrophobic acrylic with UV absorber + blue light filter. RI 1.50, ABBE 50, water content <0.5%	
Optic Design	Bi-Aspheric, Posterior Phase-Ring™ Technology	Bi-Aspheric, Posterior Phase-Ring™ Technology + Anterior Toric
Diameter	Overall 13 mm, Optic 6 mm	
Spherical Aberration (SA)	-0.27 μm @ 6 mm	
Diopter Power	+5.0D to +30.0D (0.5D increments)	
Cylinder Power	N/A	+1.0D to +3.0D (0.5D increments)
Estimated A-Constant	SRK/T 119.33	
Recommended IOL Delivery Systems	bioli™ IOL Delivery System (models C, D, rC, rD) lioli™ IOL Delivery System (models rC, rD, IIOLI-24)	
Shelf Life	5 years	
Sterilization Method	Ethylene oxide (EtO)	

1. Visual Performance and Optical Quality After Implantation of Non-diffractive Enhanced Depth of Focus Intraocular Lenses. Alaa M. Eldanasoury, MD; Karim Ayesh, MD

2. Visual performance, light distortion and patient reported outcomes with a new biaspheric non-diffractive extended depth of focus intraocular lens Santiago Tañá-Sanz, Pedro Tañá-Sanz, Belén Elvira-Giner, Paz Orts-Vila and Pedro Tañá-Rivero*

3. Posterior Capsular Opacification and Glistening in Hydrophobic Monofocal Biaspheric Intraocular Lens Two Years After Implantation: A Case Control Study Ana Hervás-Ontiveros ¹, Enrique España-Gregori ¹, Carlos Fresno-Cañada ², Rodrigo Butrón-Ruiz ³ and Alejandro Cerviño ⁴

4. Chromatic Aberration In A High Abbe Number Iol With Different Optical Designs: An Optical Bench Study. A. Cerviño ^{1,*}, J. J. Esteve-Taboada ¹, A. Hervás-Ontiveros ²

5. Visual and Refractive Outcomes After Biaspheric Trifocal Toric Diffractive Intraocular Lens Implantation. Pedro Tañá-Sanz, MD; Santiago Tañá-Sanz, MD; María Dolores Rodríguez-Carrillo, MD; María Ruiz-Santos, MD; Clara Álvarez de Toledo, MD; Pedro Tañá-Rivero, MD, PhD

6. Clinical Performance and Optical Quality of a Non-Diffractive Extended-Depth-of-Focus Intraocular Lens in Patients Undergoing Cataract Surgery or Refractive Lensectomy Antonio Cano-Ortiz ^{1,2}, Álvaro Sánchez-Ventosa ¹, Timoteo González-Cruces ^{1,*}, Marta Villalba-González ¹, Francisco Javier Aguilar-Salazar ¹, Juan J. Prados-Carmona ³, Vanesa Díaz-Mesa ¹ and Alberto Villarrubia ¹