

THE ACRYSOFF® IQ PANOPTIX™ PRESBYOPIA-CORRECTING IOL



Designed for more natural adaptability



A different approach to trifocal technology

The AcrySof® IQ PanOptix™ IOL offers advanced correction of presbyopia via proprietary ENLIGHTEN (**EN**hanced **LIGHT EN**ergy) Optical Technology:

- **Optimized light utilization in a presbyopia-correcting IOL^{1,2}**
- **Designed for more comfortable near to intermediate range of vision³⁻⁵**
- **Less dependence on pupil size³**

Plus, as the first hydrophobic trifocal lens built on the proven AcrySof® IQ platform, the AcrySof® IQ PanOptix™ IOL delivers **confidence of the AcrySof® Advantage.**

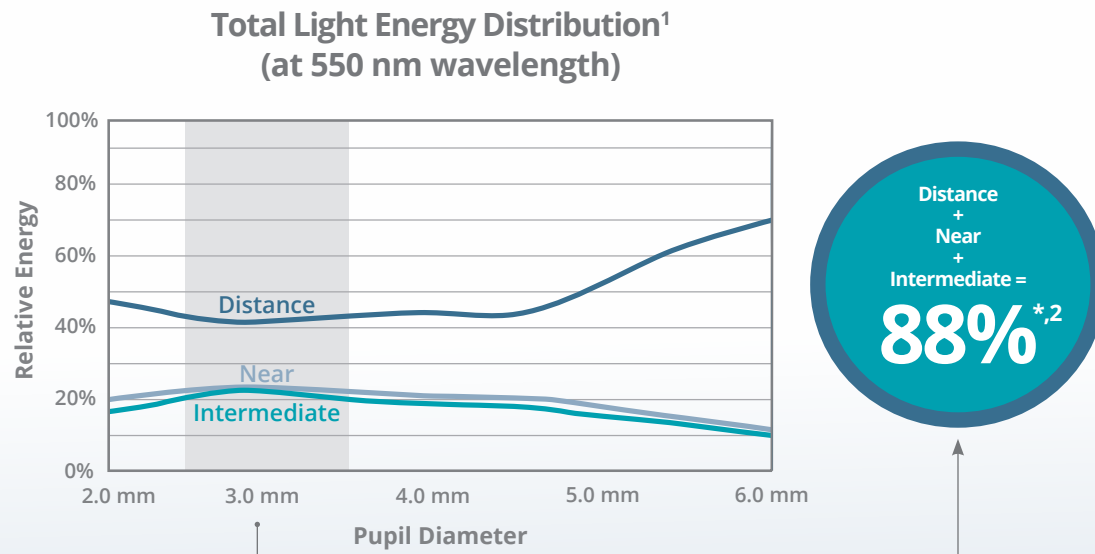


The AcrySof® IQ PanOptix™ IOL is designed to approximate youthful vision to help patients adapt more naturally to their visual preferences.^{3,4}



Optimized light utilization in a presbyopia-correcting IOL^{1,2}

With any light-splitting IOL technology, light energy management is critical. The AcrySof® IQ PanOptix™ IOL allocates half of all available light to the distance point, splitting the other half equally between near and intermediate. ENLIGHTEN technology then enables 88% of light energy at a 3.0 mm pupil size to be transmitted to the retina, providing crisp quality of vision at a range of distances.²



*88% total light utilization at a 3.0 mm simulated pupil size.



ENLIGHTEN Optical Technology
allows the AcrySof® IQ PanOptix™ IOL
to transmit more light to the retina.^{1,2}



Designed for more comfortable near to intermediate range of vision³⁻⁵

Common intermediate-vision activities, such as laptop work, dashboard interaction and menu reading, require the use of our hands and so are done at a relaxed arm's length, about 60 cm on average.^{6,7}

Most trifocals provide an intermediate focal point of 80 cm — too far away for most patients to comfortably reach.⁵ To accommodate a more natural working distance, the AcrySof® IQ PanOptix™ IOL utilizes ENLIGHTEN Technology to achieve an optimal focal point of 60 cm.²

A person would need to be about 205 cm (6'8") tall for 80 cm to be considered a comfortable arm's length.^{6,7}



Patients can accomplish intermediate tasks with greater ease and comfort thanks to this more natural and functional working distance.³⁻⁵

PanOptix™ Theoretical Binocular Defocus Curve²

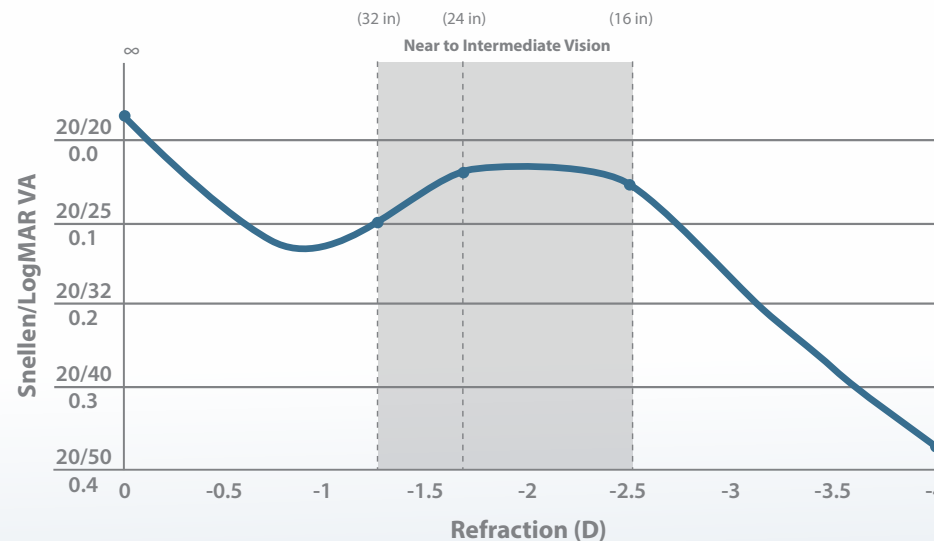


Image-based visual acuity (VA) estimation method is computationally configured via artificial neural network architecture based on four IOLs with published clinical VA data.

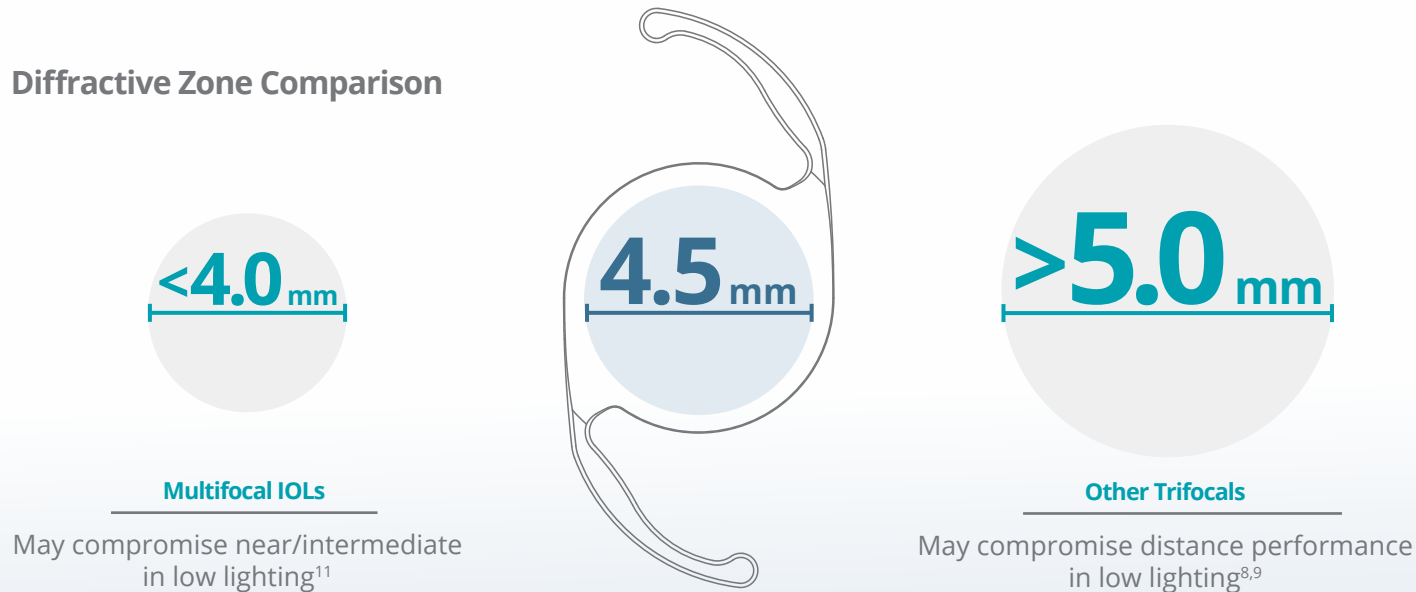
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Designed to be less dependent on pupil size³

Some multifocal IOLs have a smaller diffractive zone. This may compromise near and intermediate vision in mesopic lighting or in patients with naturally large pupils, because more of the distance zone around the periphery of the optic is exposed in these conditions. Most trifocal lenses have a larger diffractive zone, which can limit distance vision in mesopic lighting and inhibit full utilization of the optical design under any conditions.^{8,9}

Featuring a 4.5 mm diffractive zone, ENLIGHTEN Technology is designed to be less dependent on pupil size or lighting conditions, allowing more patients to experience the full benefits of presbyopia correction.³

Diffractive Zone Comparison

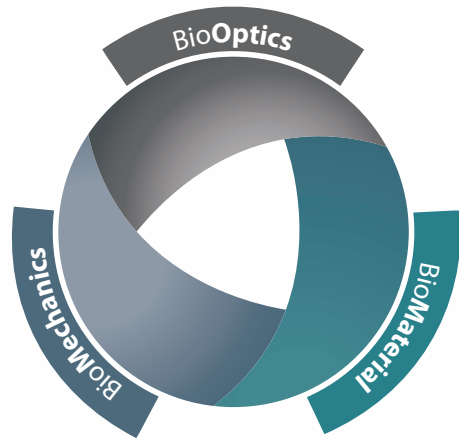


AcrySof® IQ PanOptix™ IOL

Designed to be less dependent on pupil size for functional vision in all lighting conditions.^{1,3}

The AcrySof® Advantage

The AcrySof® IQ PanOptix™ IOL is the only trifocal lens built on a proven hydrophobic acrylic platform.^{8,9}



Designed on the world's most implanted IOL platform, the AcrySof® IQ PanOptix™ IOL features the confidence of the AcrySof® Advantage.

BioMaterial

Clear capsules^{10,12,13}

- AcrySof® material property bonds with the capsule, which can help block cell migration onto the optic
- Less PCO means clear capsules for lower Nd:YAG laser treatment rates

BioMechanics

Refractive predictability¹⁴⁻¹⁷

- STABLEFORCE® haptics facilitate precise centration within the capsular bag
- Axial and rotational stability enable excellent long-term refractive predictability
- Durable, single-piece IOL design allows ease of delivery through a small incision

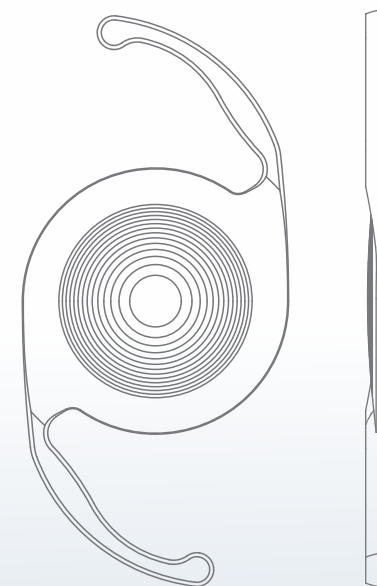
BioOptics

Ocular health & improved functional vision¹⁸⁻²²

- AcrySof® Natural chromophore emulates the light transmission of the human crystalline lens to protect ocular health
- AcrySof® Natural chromophore and aspheric optics improve functional vision

Specifications

Physical Characteristic	Description
Model	TFNT00
Optic Type	Single-piece IOL with diffractive aspheric optic
UV Cutoff at 10% T	401 nm for 21 D
Index of Refraction	1.55
Optic Powers	+13.0 through +30.0 diopter in 0.5 diopter increments; +31.0 through +34.0 diopter in 1.0 diopter increments with a +2.17 diopter intermediate and a +3.25 diopter near add power
Haptic Configuration	STABLEFORCE® Modified-L Haptics
Lens Material	Ultraviolet and blue light filtering Acrylate/Methacrylate Copolymer
Lens Color	Yellow
Optic Diameter (mm)	6.0
Overall Length (mm)	13.0
Haptic Angle	0°
A-Constant	119.1 [†]



[†]Provided as a guideline only.

Designed for more natural adaptability



AcrySof® IQ PanOptix™ IOL is the only hydrophobic trifocal lens delivering the confidence of the AcrySof® Advantage.

The AcrySof® IQ PanOptix™ IOL features ENLIGHTEN (**EN**hanced **LIGHT EN**ergy) Optical Technology to mimic the performance of a healthy crystalline lens:

- **Exceptionally high light utilization in a presbyopia-correcting IOL.**
Transmits 88% of light at 3.0 mm pupil size to help provide crisp quality of vision at all distances.^{1,2}
- **Designed for more comfortable near to intermediate range of vision.**
Provides a more natural intermediate focal point of 60 cm, which is preferred for real-life tasks, such as computer work, over the 80 cm distance offered by other trifocals.³⁻⁵
- **Less dependence on pupil size.**
4.5 mm diffractive zone designed for excellent performance in all lighting conditions.³

1. AcrySof® IQ PanOptix™ IOL Directions for Use. 2. Alcon Laboratory Notebook:14073:77-78. 3. PanOptix™ Diffractive Optical Design. Alcon internal technical report: TDOC-0018723. Effective date 19 Dec 2014. 4. Charness N, Dijkstra K, Jastrzembki T, et al. Monitor viewing distance for younger and older workers. Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting, 2008. http://www.academia.edu/477435/Monitor_Viewing_Distance_for_Younger_and_Older_Workers. Accessed April 9, 2015. 5. Average of American OSHA, Canadian OSHA and American Optometric Association Recommendations for Computer Monitor Distances. 6. Plagenhoef S, Evans FG, Abdelnour T. Anatomical data for analyzing human motion. *Research Quarterly for Exercise and Sport*. 1983;54:169-178. 7. What is the average male height? Average Height. <http://www.averageheight.co/average-male-height>. Accessed July 6, 2015. 8. PhysiOL FineVision® Sales Brochure. 9. ZEISS AT LISA® IOL Sales Brochure. 10. Linnola RJ, Sund M, Ylonen R, et al. Adhesion of soluble fibronectin, laminin, collagen type IV to intraocular lens materials. *J Cataract Refract Surg*. 1999;1486-1491. 11. AcrySof® IQ ReSTOR® Directions for Use. 12. Apple DJ, Peng Q, Visessook N, et al. Eradication of posterior capsule opacification: documentation of a marked decrease in Nd:YAG laser posterior capsulotomy rates noted in an analysis of 5416 pseudophakic human eyes obtained postmortem. *Ophthalmology*. 2001;108(3):505-518. 13. Boureau C, et al. Incidence of Nd:YAG laser capsulotomies after cataract surgery: comparison of 3 square edge lenses of different composition. *Can J Ophthalmol*. 2009;44:165-170. 14. Wirtitsch MG, et al. Effect of haptic design on change in axial lens position after cataract surgery. *J Cataract Refract Surg*. 2004;30(1):45-51. 15. Koshy JJ, Nishi Y, Hirschschall N, et al. Rotational stability of a single-piece toric acrylic intraocular lens. *J Cataract Refract Surg*. 2010;36(10):1665-1670. 16. Nejima R, et al. Prospective inpatient comparison of 6.0-millimeter optic single-piece and 3-piece hydrophobic acrylic foldable intraocular lenses. *Ophthalmology*. 2006;113(4):585-590. 17. Kohnen T, et al. Incision sizes before and after implantation of SN60WF intraocular lenses using the Monarch injector system with C and D cartridges. *J Cataract Refract Surg*. 2008;34:1748-1753. 18. AcrySof® IQ IOL Directions for Use. 19. Sparrow JR, et al. Blue light absorbing intraocular lens and retinal pigment epithelium protection in vitro. *J Cataract Refract Surg*. 2004;30:873-878. 20. Marshall JC, et al. The effect of blue light exposure and use of intraocular lenses on human uveal melanoma cell lines. *Melanoma Res*. 2006;16:537-541. 21. Pipis A, Touliou E, Pillunat LE, Augustin AJ. Effect of the blue filter intraocular lens on the progression of geographic atrophy. *Eur J Ophthalmol*. 2014;(in press). 22. AcrySof® IQ Toric IOL Directions for Use.