Fourier Technology

The Master Key to Advanced Presbyopia Correction

Fourier

100% Glistening-Free Hydrophobic Fourier Optic **PRELOADED** IOL System





Fourier Optic's Undulatory Diffractive Profile

The advanced **Fourier Optic Technology** utilizes a unique undulatory diffractive profile to redefine visual outcomes.

This advanced technology ensures optimal functionality through improved light management.







Minimal Dysphotopsia

Traditional overlapping Fresnel diffractive IOL designs consist of sharp steps, which cause a certain amount of light to scatter in undefined directions, resulting in halo and glare.



The smooth, undulatory diffractive profile of Fourier Optic reduces light scattering, minimizing halo and glare in low-light conditions for a more comfortable night driving experience.





High Light Transmission

The undulatory pattern of Fourier Optics enables up to 92.5% light transmission to the retina, ensuring superior optical efficiency.

This advanced design significantly **enhances contrast sensitivity**, offering sharper, more vivid vision compared **to IOLs with traditional trifocal optic designs**.

By minimizing light loss, it delivers exceptional visual experience across all lighting conditions.





Continuous Focus

The **undulatory diffractive profile** of Alsee Fourier ensures **uniform and balanced light distribution**, delivering **continuous focus** across a wide range of lighting conditions.

This design provides a **more natural visual experience**, reducing visual disruptions in everyday activities.





Superiority of Fourier Optic over Traditional Trifocal Designs



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VA - Defocus Curve

Alsee Fourier ensures excellent trifocality offering improved intermediate vision for enhanced clarity at mid-range distances, making everyday tasks like working on a computer easier and more comfortable.





Enhanced visual quality without compromising contrast

Alsee Fourier offers good contrast sensitivity across all distance range, even under mesopic conditions.





High-Resolution Vision

Alsee Fourier ensures images with good optical resolution at far distances in all light conditions.





Optimized Light Distribution

Fourier Optics is designed to provide higher light efficiency and contrast sensitivity. The far vision is strong at all distances, while light for near and intermediate vision is provided where it is most useful for the human eye, with near vision being very strong in photopic conditions and with a stronger intermediate vision for darker environments.









100% Glistening-Free Hydrophobic Fourier Optic **PRELOADED** IOL System

Product Name	Alsee Fourier Preloaded	
Material	Hydrophobic Acrylic (Glistening Free)	
Optic Type	Fourier Optic	
Haptic Type	Arms2FIT	
Haptic Thickness(wet)	0.30 mm	
Optic Diameter	6.0 mm	
Overall Length (mm)	13.0 mm	
Addition Range	+1.80 D Int / +3.60 D Near	
Available Diopter Range	10.00 D to 30.00 D (with 0.5 D steps)	
Refractive Index	1.53	
Spectral Transmittance	< 10% là 380 nm ≥ 85% là 410 nm	
Op. A Constant	Aconst Manu: 118 SRK II: 118,9 SRK/T: 118,9 Haigis A0: 1,243 Haigis A1: 0,4 Haigis A2: 0,1 pACD: 5,46 Holladay/SF: 1,67 Lens Factor: 1,83	
Storage Conditions	Store between -2°C and +45°C	
Shelf - Life	4 years	
Light Filtration	UV Filter	
Injector Type	Single-use, fully preloaded IOL injection system 2.2 mm incision	





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	100% Glistening-Free Hydrophobic Fourier Toric PRELOADED IOL System	

Product Name	Alsee Fourier Toric Preloaded				
Material	Hydrophobic Acrylic (Glistening Free)				
Optic Type	Fourier Optic Toric				
Haptic Type	Arms2FIT				
Haptic Thickness(wet)	0.30 ± 0.02 mm				
Optic Diameter	6.0 ± 0.15 mm				
Overall Length (mm)	13.0 ± 0.20 mm				
Addition Range	+18 D Int / +3.60 D Near				
Available Diopter Range	18.00 D to 23.00 D with 0.5 D increments				
Available Toric Models	FT3	FT4	FT5	FT6	
	1.50 D	2.25 D	3.00 D	3.75 D	
Refractive Index	1.53				
Spectral Transmittance	< 10% @ 380 nm ≥ 85% @ 410 nm				
Op. A Constant	Aconst Manu: 118 SRK II: 118,9 SRK/T: 118,9 Haigis A0: 1,243 Haigis A1: 0,4 Haigis A2: 0,1 pACD: 5,46 Holladay/SF: 1,67 Lens Factor: 1,83				
Storage Conditions	Store between -2°C and +45°C				
Shelf - Life	4 years				
Light Filtration	UV Filter				
Delivery System					
Injector Type	Single-use, fully preloaded IOL injection system 2.2 mm incision				





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