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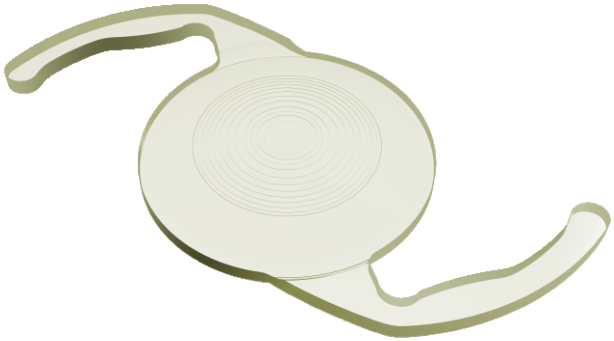
Optiflex TRIO comfort

DESIGNED TO MEET YOUTHFUL VISION

biotech
VISIONCARE

Optifelx Trio Comfort is diffractive refractive trifocal intraocular lens used for presbyopia correction

It's unique diffraction pattern gives balanced light distribution at all distances and results in spectacle independence for vision

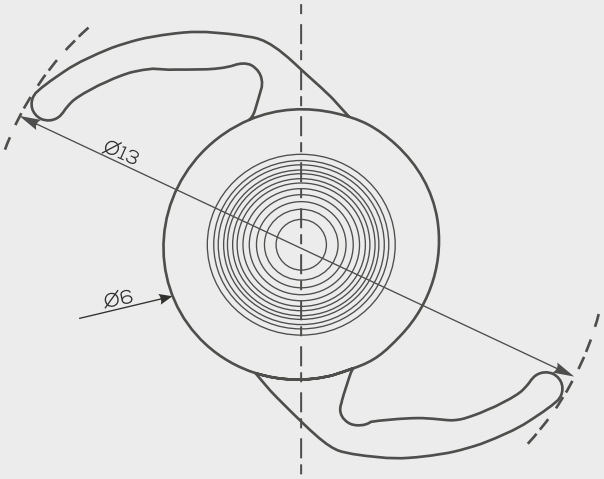


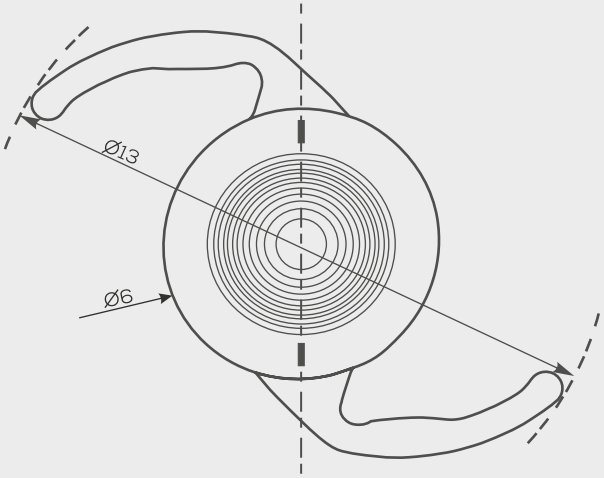
WITH BLiSS BRILLIANT LIGHT SENSING SYSTEM

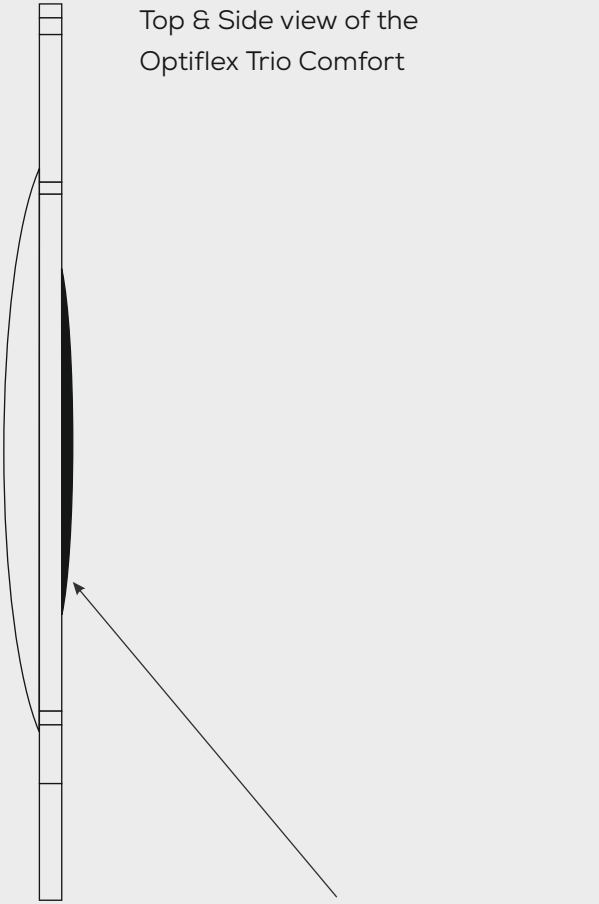
- Designed for Natural Adaptation
- Effective utilization of unused light energy
- Optimum asymmetric and balanced light distribution at each focal point
- Specially optimized diffractive zone for intermediate and near vision without affecting distance vision
- Pupil independent

Unique Refractive Diffractive Aspheric Design

- Optimized center zone (Refractive Zone) supports angle Alpha + Kappa: minimizes haloes and glares
- Optimized 4mm diffractive zone reduces dependence on pupil size
- Peripheral refractive zone supports the distance vision in low light condition (Scotopic condition)





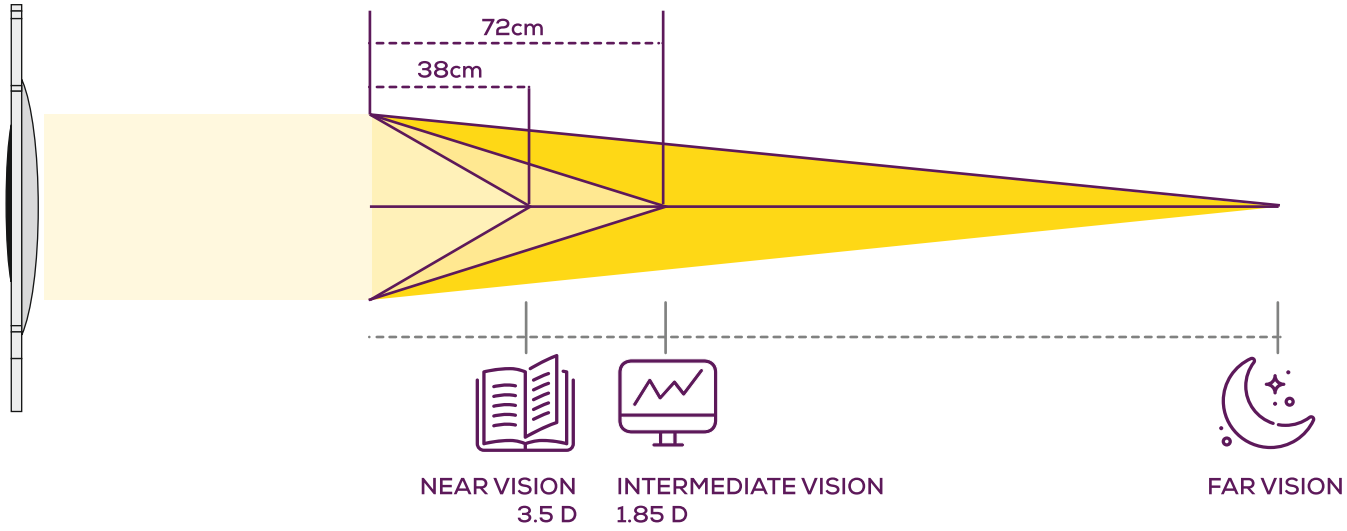


Top & Side view of the
Optiflex Trio Comfort

Aspheric / Aspheric Toric
Anterior Diffractive Surface

OPTIFLEX TRIO FEATURES

- Good visual outcomes at all distances
- 97% patient satisfaction
- Reduces spectacle dependency
- Complete visual restoration with good visual quality outcomes
- Glistening free
- Minimal dysphotopsia
- Optimized near add power of +3.5 D works for ideal reading distance at about 38 cm and intermediate add power of+1.85 D works for vision at about 72 cm
- Optimum Asymmetric and balanced light distribution of 45% for far, 27% for intermediate and 28% for near- distances, provides excellent vision at all distances
- High spectacle independence resulting into patient satisfaction
- Good visual quality interms of Distance, intermediate & near vision
- Very high light transmittance gives good quality of vision in all lighting conditions
- Wide range of cylindrical correction



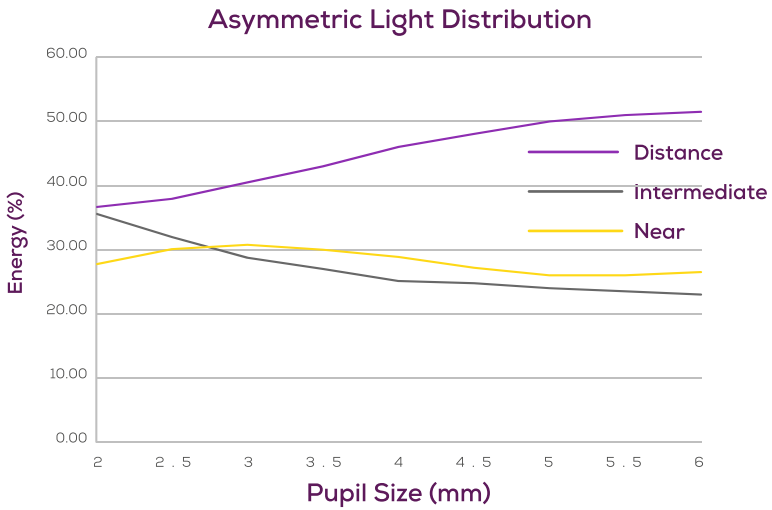
GENERAL FEATURES

- Lens material with natural yellow chromophore prevents risk of Age Related Macular Degeneration (ARMD) and doesn't disturb the circadian rhythm. Moreover, it doesn't attribute to altered color perception, hence enhances the contrast sensitivity
- Negative spherical aberration compensates cornea's positive spherical aberration
- Abbe no. 49 – reduces Chromatic Aberration
- Good visual outcomes at all distances
- 360° square edge
- IOL remains Glistenings-free

LIGHT ENERGY DISTRIBUTION

(%) at various Pupil Size [2]

The refractive energy distribution of Optiflex Trio in different lighting conditions like photopic and scotopic , is shown in the graph. It shows the light distribution in far, intermediate and near distances at various pupiul sizes



Energy Distribution at three focal points at various aperture size at 546 nm

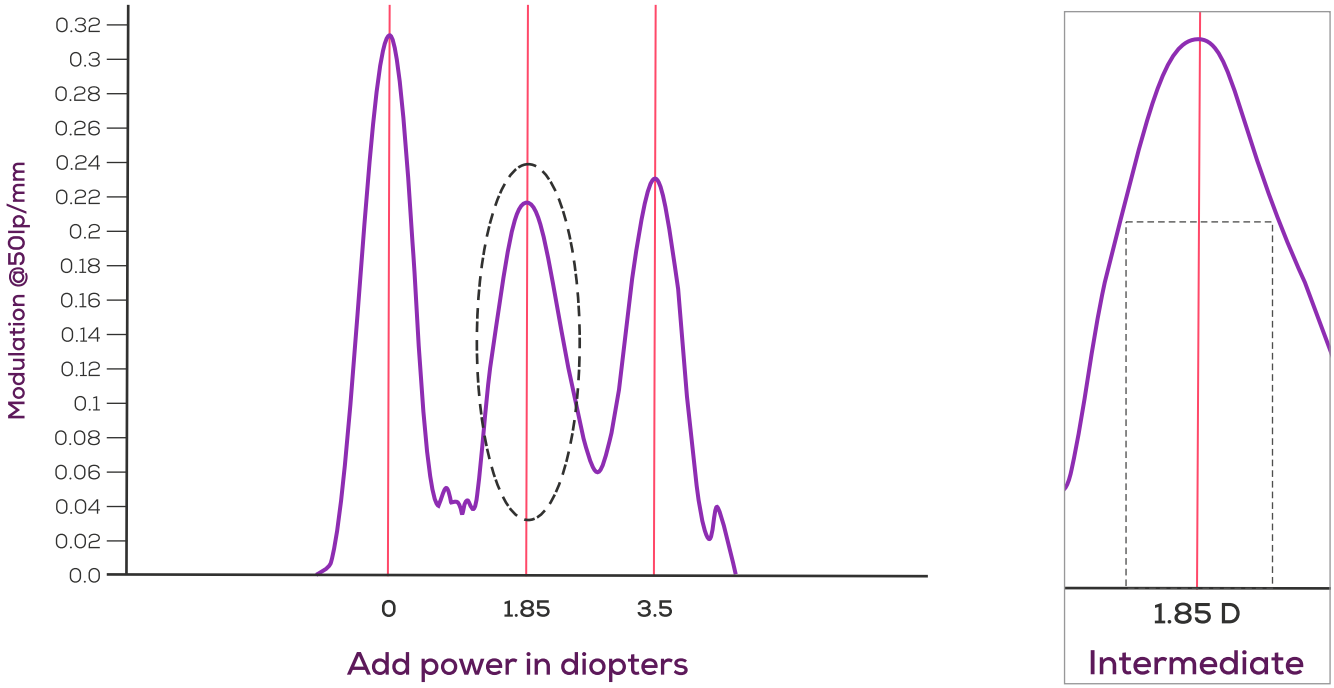
OPTIMIZED LIGHT DISTRIBUTION

Light Yield [2]

- 88.3% transmitted light energy provides good quality of vision and improves contrast sensitivity
- Optimized diffractive zone ensures minimized pupil dependency in any lighting conditions
- Optiflex TRIO Comfort with its unique step design, exhibits minimum loss of light and yields 88.3% of light for sharp and clear vision at various distances

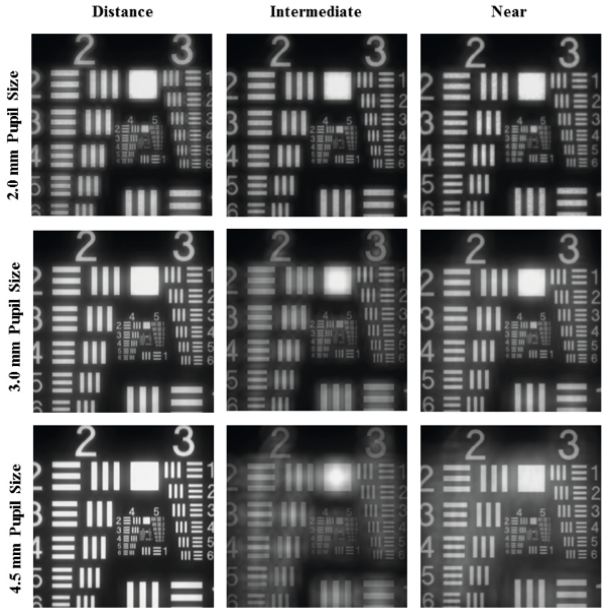
MODULATION TRANSFER FUNCTION CURVE

- Optifelx TRIO Comfort provides good visual acuity at all distances
- Sufficient energy distribution at each focal point
- Clear separation of three peaks provides clear vision and excellent contrast at each focal point
- Extended depth of Intermediate provides extended range of quality vision for daily activities
- Covers 60-90 cm Intermediate distance without loss of contrast sensitivity



USAF RESOLUTION TARGET IMAGES

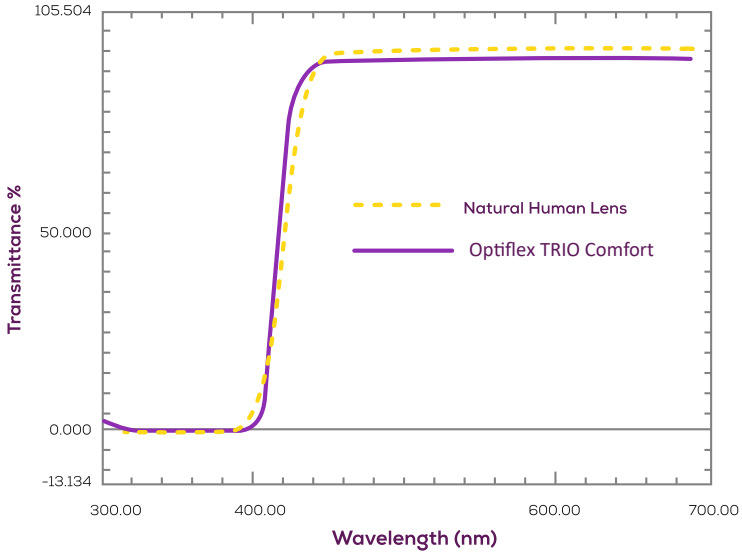
USAF images given here show the qualitative resolution performance of Optiflex TRIO Comfort at various pupil sizes.



LIGHT TRANSMITTANCE CURVE

compared with natural human lens [2]

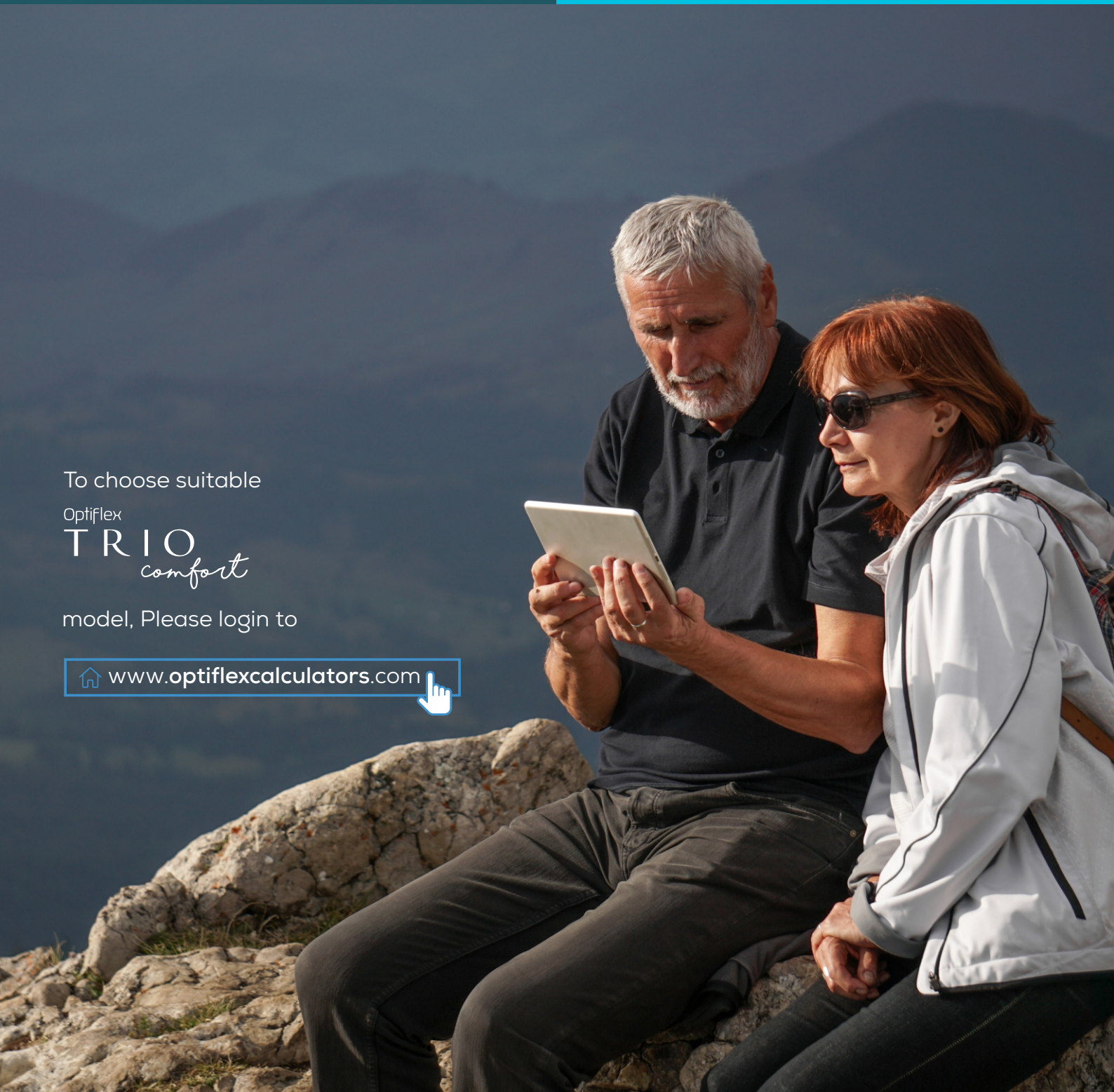
Optiflex TRIO Comfort blocks the harmful UV light and filters Violet and Blue light without losing the contrast sensitivity. The transmittance property of Optiflex TRIO Comfort is similar to the transmittance of a young human crystalline lens. This graph clearly shows the blockage of harmful UV light and filtration of the Violet-Blue light without losing contrast sensitivity.



Light Transmittance Graph of Optiflex TRIO Comfort compared with natural young human lens

NOTE : Human lens data are from Boettner and Wolter (1962)[1].

SPECIFICATIONS	L3FLA6	L3FLA6T
MATERIAL	Hydrophobic Acrylic containing Natural Yellow Chromophore	
OPTIC TYPE	Single Piece, Diffractive – Refractive, 360° Square Edge with Aspheric Optic (L3FLA6T is available with Toric Optic)	
NEAR ADDITION	+3.5 D	
INTERMEDIATE ADDITION	+1.85 D	
OPTIC SIZE	6.00 mm	
OVERALL SIZE	13.00 mm	
ANGULATION	0°	
ACD	5.28	
REFRACTIVE INDEX	1.52	
RECOMMENDED ULTRASOUND A-CONSTANT	SRK-T 118.60	
RECOMMENDED OPTICAL A-CONSTANTS	HOLLADAY 1 SF: 1.74	HOLLADAY 2 SF: 1.79
	HOLLADAY 2 ACD: 5.55	SRK – T 119.00
	SRK – II 119.40	Barrett: 1.88
	HOFFER Q ACD: 5.52	HAIGIS a0:1.309, a1:0.400, a2:0.100
DIOPTER RANGE	+7.0 D to +30.0 D (with 0.5 D steps)	
CYLINDER RANGE (for TORIC VERSION)	0.0 D to 6.0 D (with 1.0D step between 0.0D to 1.0D, with 0.5D step between 1.0D to 1.5D & with 0.75D step between 1.5D to 6.0D)	
IMPLANTATION SITE	Capsular Bag	
STERILIZATION	EO	
SHELF LIFE	3 years from date of manufacture	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