

CE
2460

EYECRYLTM Sert

IOL RANGE

Inspired by
natural vision

mono **MORE** technology

biotech
VISION CARE

REDEFINING MONOFOCAL SEGMENT

- A new Hydrophobic Aspheric EDOF IOL with Aspheric surface
- Continuous vision from distance to intermediate
- Spectacle independence for Intermediate Vision
- An extended range of vision: >1.75 D at spectacle plane with Visual Acuity 0.2 LogMAR or better
- Intermediate vision up to 57 cm
- MICS (2.2 mm) compatible to reduce SIA
- Designed for fast neural adaptation
- Minimal glare and haloes
- ABBE no. 47



PLHFD6



PLHFD6T

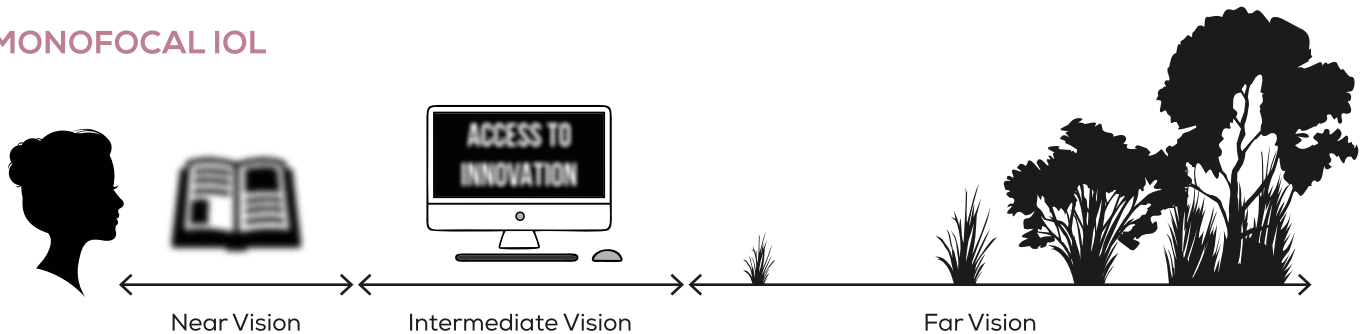
ADDED INTERMEDIATE VISION:

*mono***MORE***technology*

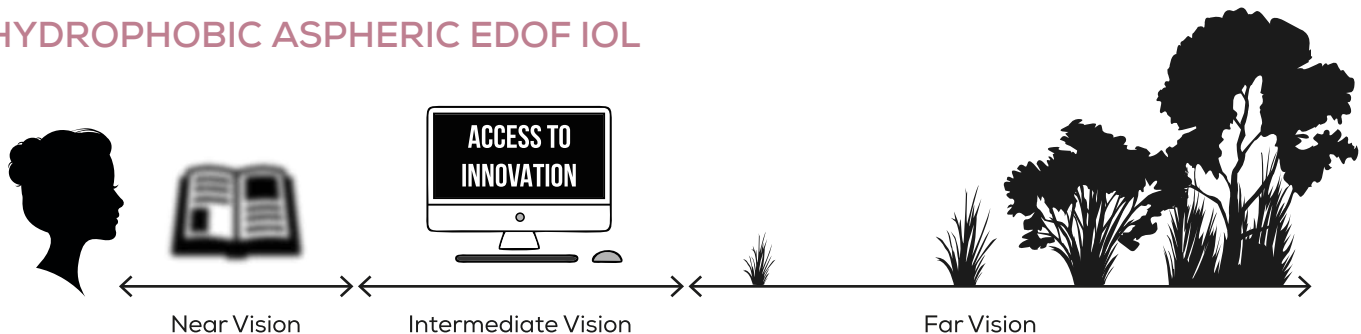
UNIQUE ASYMMETRIC POWER DISTRIBUTION

- Designed for extended vision
- Optimized optical Zones to provide extended depth of focus
- Asymmetric power distribution to minimize pupil dependency
- Photic phenomena similar to Monofocal IOLs

MONOFOCAL IOL



HYDROPHOBIC ASPHERIC EDOF IOL



OPTIMIZED LIGHT ENERGY

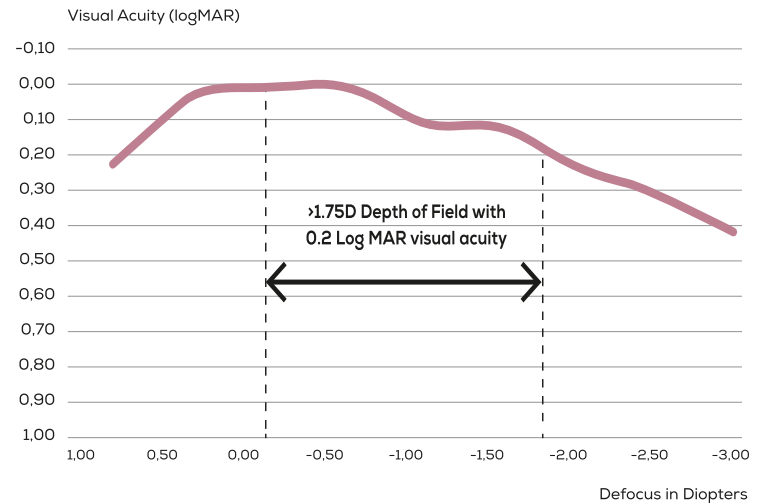
Optimized optical zones provide the extended depth of focus for Intermediate vision and asymmetric power distribution minimizes pupil dependency in all lighting conditions.



DEFOCUS CURVE*

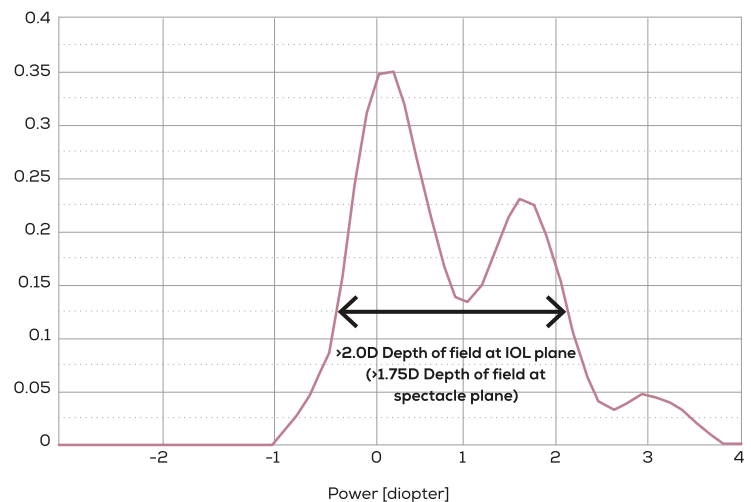
Extended Depth of focus for Intermediate vision without compromising far vision

- Continuous vision from Distance to Intermediate
- Great support for daily activities
- 0.2 to MAR visual acuity even at +1.0D denotes tolerance range of IOL



MODULATION TRANSFER FUNCTION*

- Optimized energy distribution from Distance to Intermediate
- More than 0.3 MTF (50 lp/mm) @ 3.00 mm aperture
- Good contrast in all light conditions

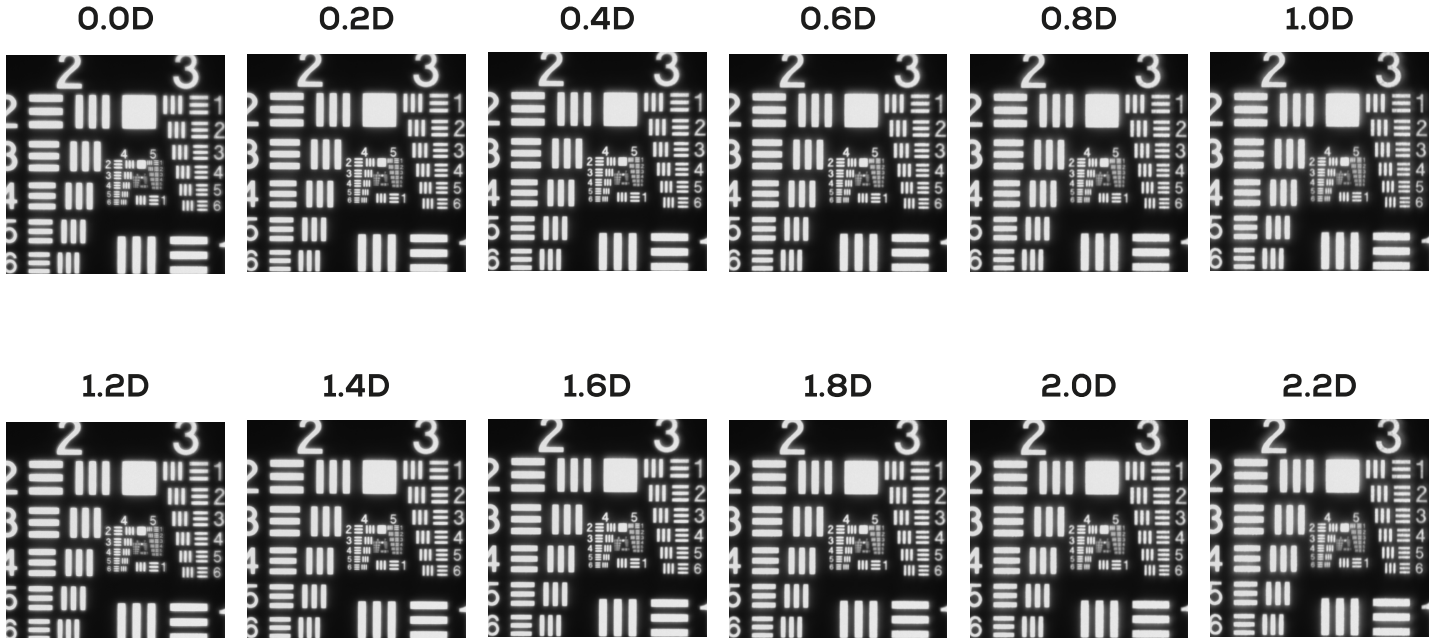


*Data on File.

OPTICAL RESULTS*

USAF IMAGES AT 3.0 MM APERTURE

Optimized light distribution to maintain better resolution and good contrast sensitivity



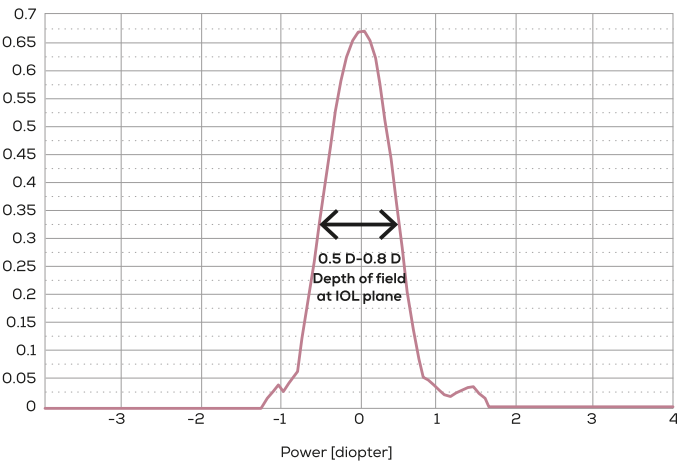
MONOFOCAL IOL VS EYECRYL™ Sert IOL

Hydrophobic Aspheric EDOF IOL

MTF COMPARISON*

Monofocal IOL provides 0.5 D to 0.8 D depth of field and EYECRYL™ Sert IOL provides more than 2.0 D depth of field (>1.75D depth of field at spectacle plane) which is helpful for Intermediate distance range of daily visual activities.

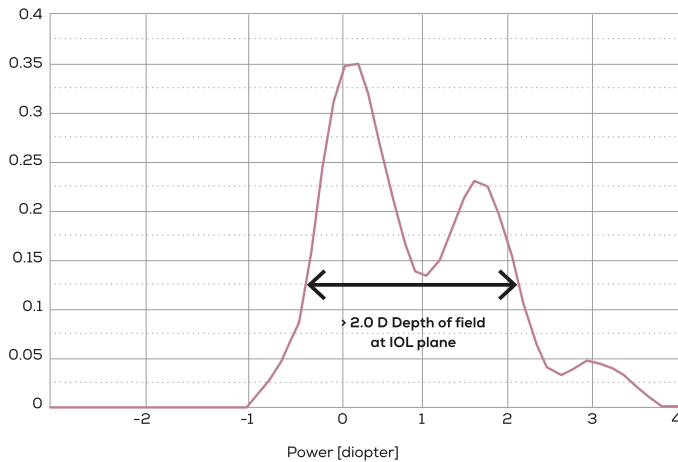
MONOFOCAL IOL



Modulation Transfer Function @3.0 mm aperture

EYECRYL™ Sert IOL

Hydrophobic Aspheric EDOF IOL



Modulation Transfer Function @3.0 mm aperture

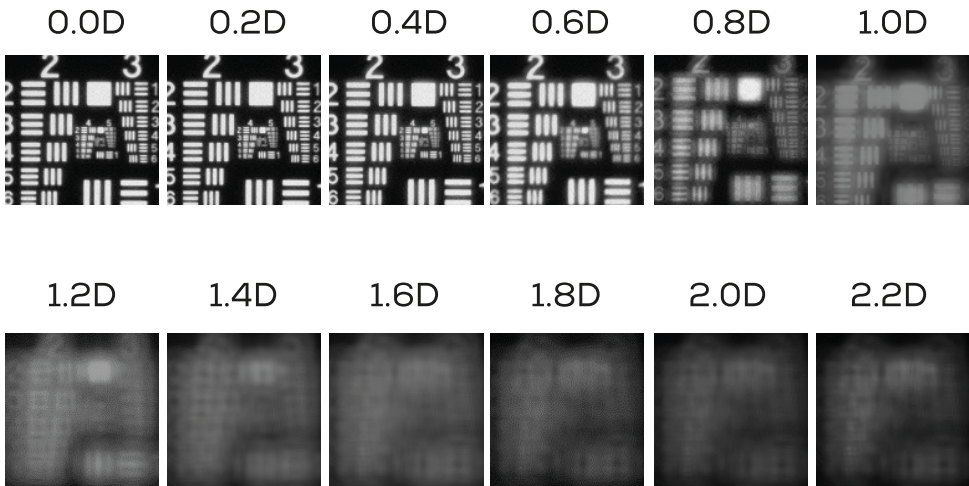
*Data on File.

MONOFOCAL IOL VS. EYECRYLTM Sert IOL

Hydrophobic Aspheric EDOF IOL

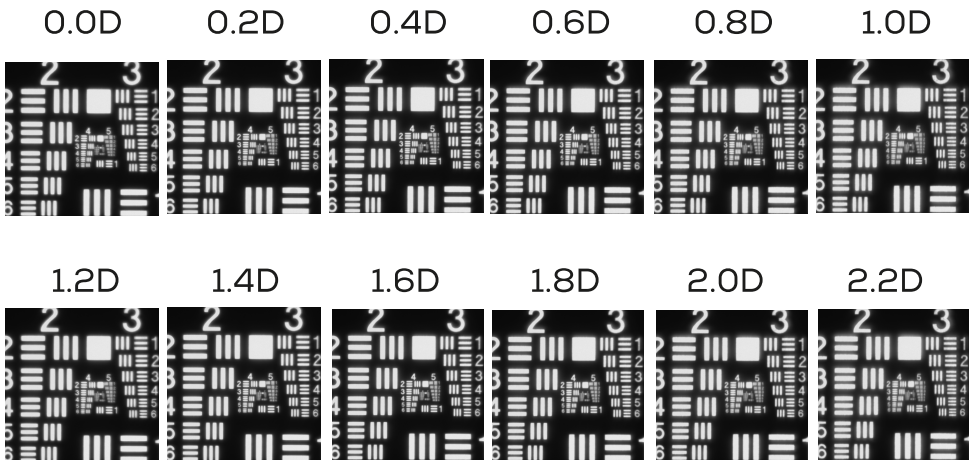
USAF IMAGES COMPARISON*

MONOFOCAL IOL



EYECRYLTM Sert IOL

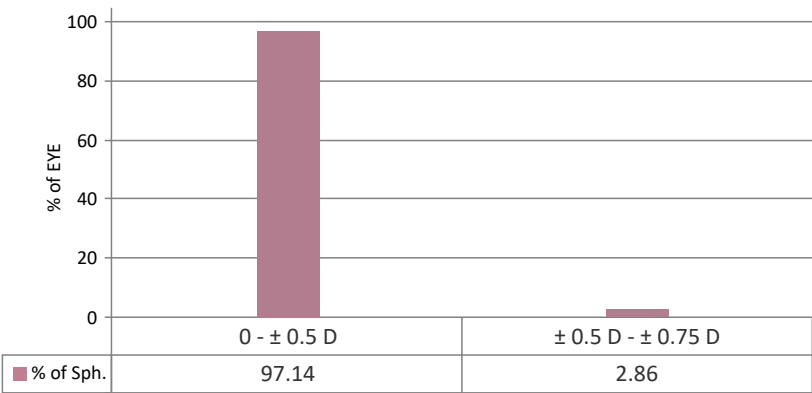
Hydrophobic Aspheric EDOF IOL



POST OPERATIVE OUTCOMES* (n=70)

SPHERICAL RESIDUAL

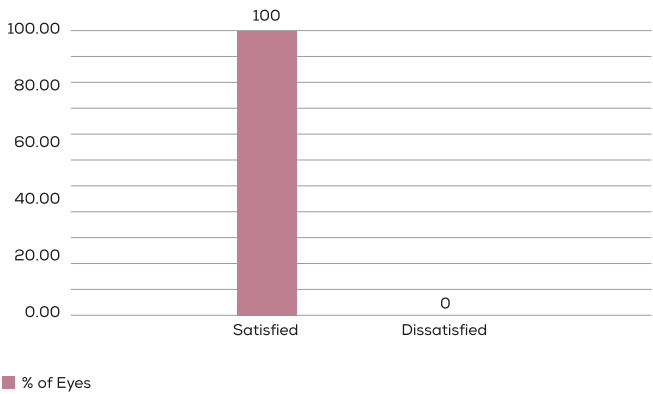
Post-operative spherical result shows that 97.14% of eyes were within $\pm 0.5D$ spherical residual. All eyes were within $\pm 0.75D$ spherical residual.



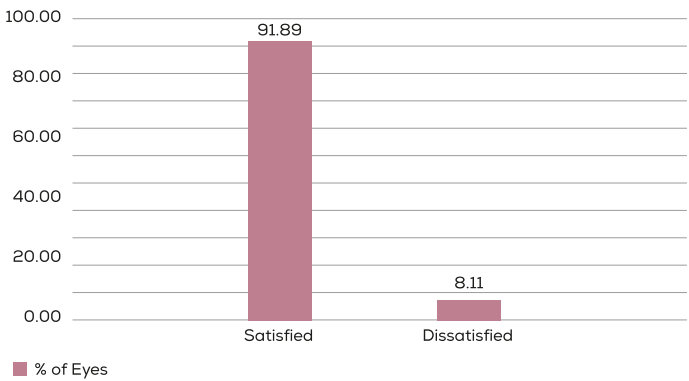
SPECTACLE INDEPENDENCE FOR DIFFERENT DISTANCES*

As per post-operative data, satisfaction for spectacle independence was found 100% for far vision & 91.89% for intermediate vision.

FAR VISION



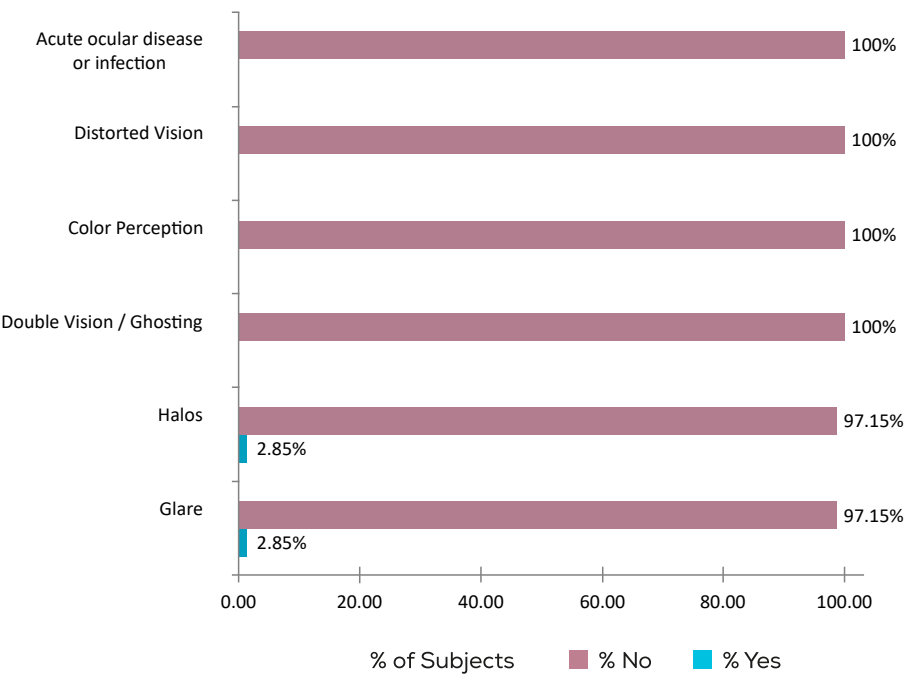
INTERMEDIATE VISION



*Data on File.

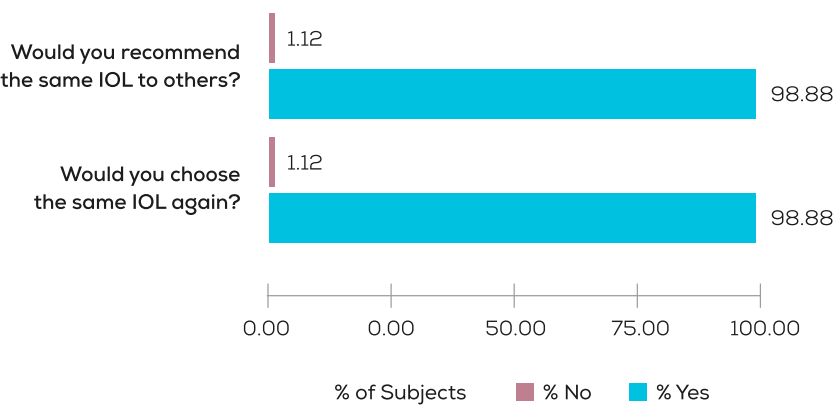
PHOTIC PHENOMENON & VISUAL DISTURBANCE*

No case of dysphotopsia or post-operative disturbance related to vision have been reported so far. With minimal glare and halos, photic phenomenon is similar to monofocal IOLs.



PATIENT SATISFACTION*

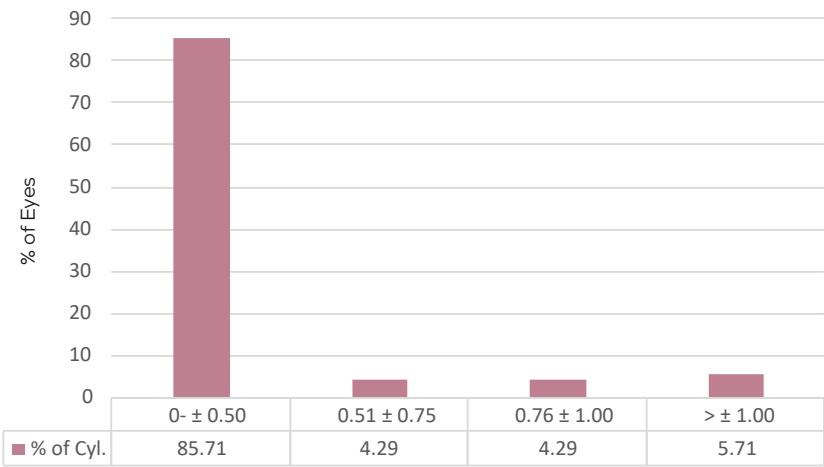
Patient satisfaction was found to be very high. 98.88% patients would choose the same IOL again and recommend it to others.



*Data on File.

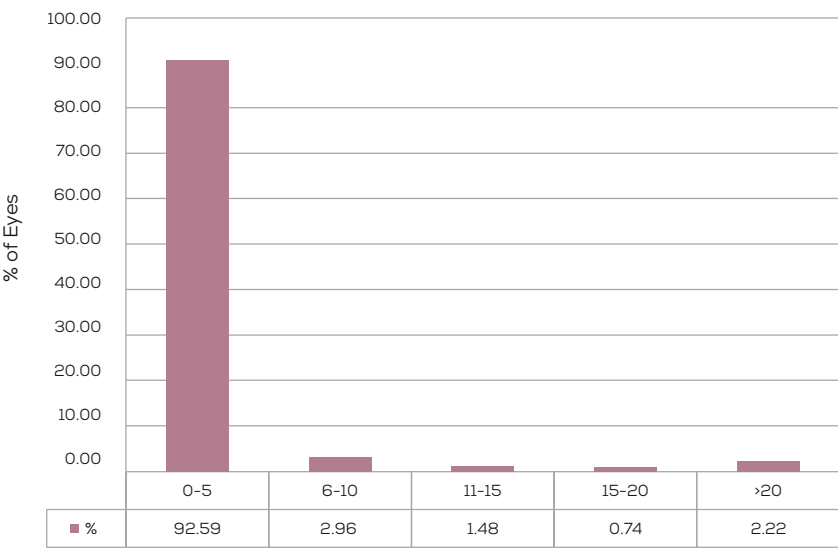
REFRACTIVE CYLINDRICAL RESIDUAL

The cylindrical accuracy was within $\pm 0.5D$ for 85.71% cases. These post-operative cylindrical results prove the excellent corneal astigmatism correction.



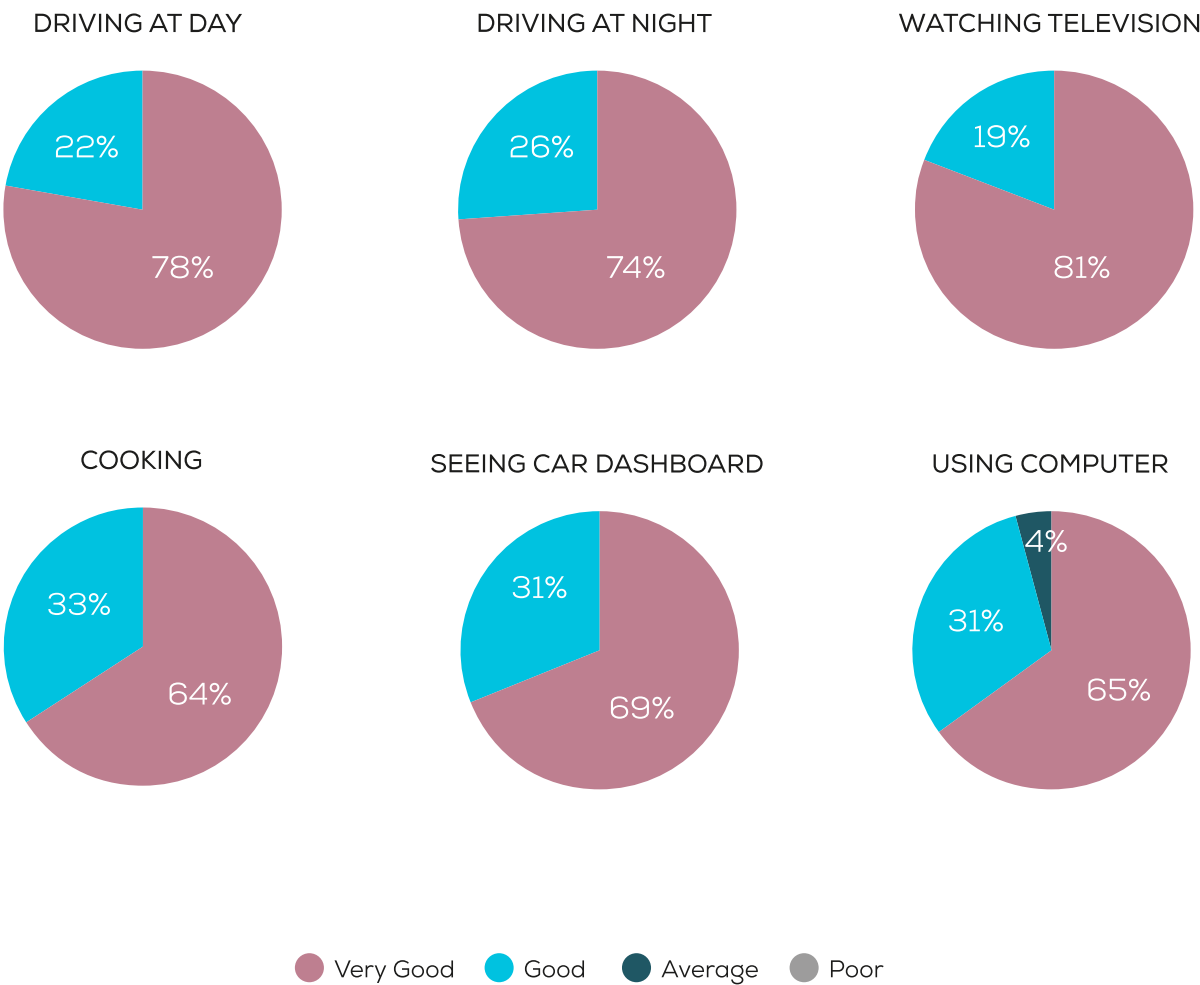
IOL ROTATIONAL STABILITY

The lens has excellent rotational stability due to its advanced design and material. 92.59 % patients having the rotation with in 5 degree proves the excellent rotational stability of the IOL.



QUALITY OF VISION*

100% patients were satisfied for their far prominent day to day activities e.g. driving at day & night, watching television etc. For activities required intermediate vision e.g. seeing car dashboard while driving, cooking & using computers, the satisfaction level was 100%, 100% and 96% respectively.



SPECIFICATION	PLHFD6	PLHFD6T
MATERIAL	Hydrophobic Acrylic Containing Natural Yellow Chromophore	
OPTIC TYPE	Single Piece 360° Square Edge with Aspheric Optic	
OPTIC SIZE	6.00 mm	
OVERALL SIZE	13.00 mm	
ANGULATION	0°	
ACD	5.28	
REFRACTIVE INDEX	1.524	
RECOMMENDED ULTRASOUND A-CONSTANT	SRK-T 119.00	
RECOMMENDED OPTICAL A-CONSTANTS	HAIGIS: a_0 :1.574, a_1 :0.400, a_2 :0.100	HOFFER - Q ACD: 5.78
	HOLLADAY 1 SF: 1.99	HOLLADAY 2 SF: 2.02
	SRK-II 119.90	SRK-T 119.40
DIOPTER RANGE	HOLLADAY 2 ACD: 5.78	
	Barrett: 2.09	
CYLINDER RANGE (For Toric Version)	+7.0 D to +30.0 D (with 0.5 D step) & 0.00 D to +6.5 D and +30.5 D to +40.0 D will be available on customization on case to case basis as per manufacturing possibility"	
	1.0 D to 1.5 D (with 0.5 D step), 1.5 to 6.0 D (with 0.75 D step).	
	6.75 to 15.0 D (with 0.75 D step) customization as per manufacturing possibility	
IMPLANTATION SITE	Capsular Bag	
STERILIZATION	EO	



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