



Inspired by natural Vision

MORE technology

biotech

VISIONCARE



REDEFINING MONOFOCAL SEGMENT

- A new Advanced Monofocal 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

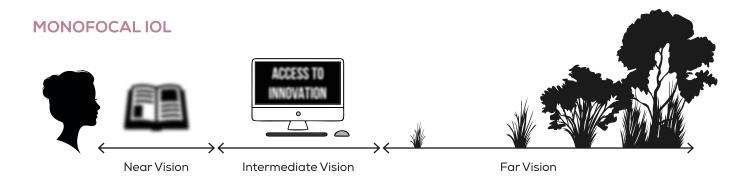


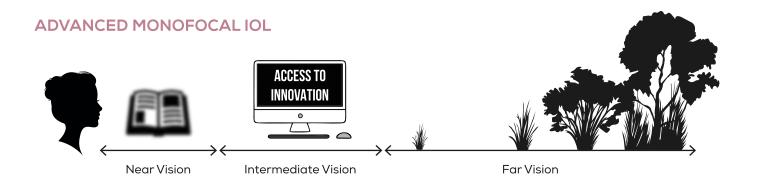
ADDED INTERMEDIATE VISION:



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

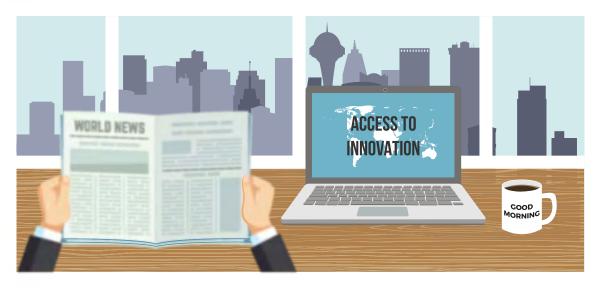




OPTIMIZED LIGHT ENERGY

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

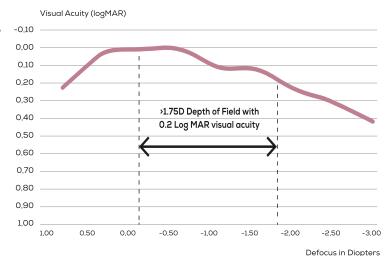




DEFOCUS CURVE*

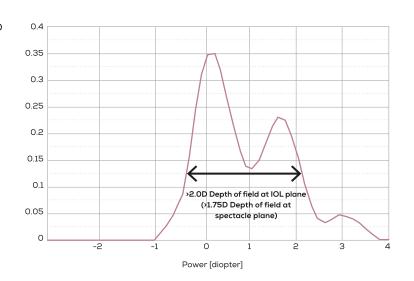
Extended Depth of focus for Intermediate vision without compromising far vision

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



MODULATION TRANSFER FUNCTION*

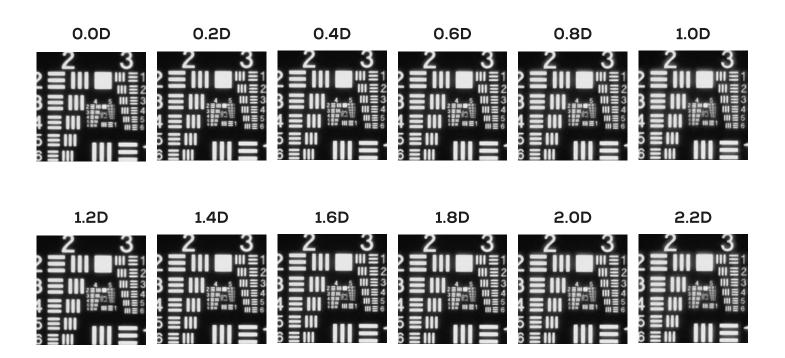
- Optimized energy distribution from Distance to Intermediate
- More than 0.3 MTF (50 lp/mm) @ 3.00 mm aperture
- Good contrast in all light conditions



OPTICAL RESULTS*

USAF IMAGES AT 3.0 MM APERTURE

Optimized light distribution to maintain better resolution and good contrast sensitivity



PRE-LOADED DELIVERY SYSTEM

SINGLE HAND IMPLANTATION WITH CONTROL OF SCREW TYPE INJECTOR:

BEST OF BOTH WORLDS



SIMPLE IOL IMPLANTATION USING FOLLOWING STEPS

STEP 01



Push the blue injector plunger forward until the front push plate is flush against the injector housing.

STEP 02





Inject adequate amount of any Biotech certified OVD having low to moderate viscosity, as shown here. The OVD should flow up to leading haptic of the IOL. Inject OVD from tip of the cartridge also, to fill the cartridge nozzle. Do not completely fill the chamber as this can move the IOL during insertion.

STEP 03



Close the cartridge flaps. Ensure that the flaps are locked with a "Click" sound.

STEP 04



Push the blue injector plunger forward until the rear push plate is flush against the injector housing or until the drive wheel of the injector moves.

STEP 05



Hold the delivery system with a "Pen Grip", as shown here and keep your index finger on Drive Wheel.

STEP 06





Hold the system with the cartridge tip in a bevel down position. Now using your index finger, pull and rotate the drive wheel back slowly in order to push the lens forward until it is delivered.

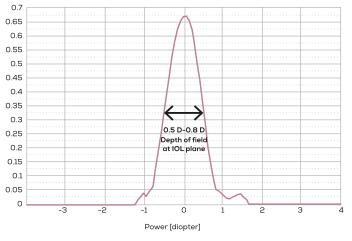


MTF COMPARISON*

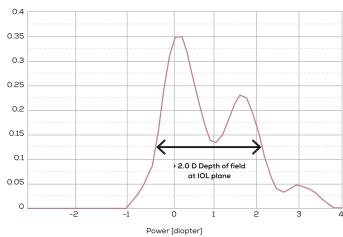
Monofocal IOL provides 0.5 D to 0.8 D depth of field and EYECRYL Sert IOL provides more than 2.0 D depth of field (>1.75D depth of field at spectacle plane) which is helpful for Intermediate distance range of daily visual activities.

MONOFOCAL IOL





Modulation Transfer Function @3.0 mm aperture

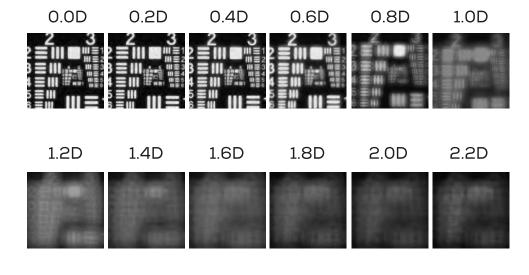


Modulation Transfer Function @3.0 mm aperture

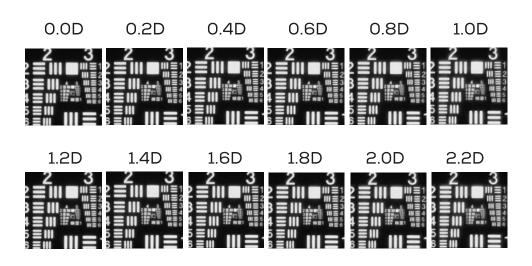
MONOFOCAL IOL VS. EYECRYL Sert IOL

USAF IMAGES COMPARISON*

MONOFOCAL IOL



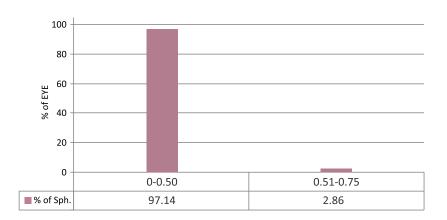




POST OPERATIVE OUTCOMES* (n=70)

SPHERICAL RESIDUAL

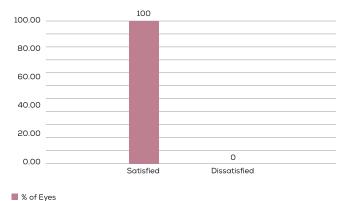
Post-operative spherical result shows that 97.14% of eyes were within \pm 0.5D spherical residual. All eyes were within \pm 0.75D spherical residual.



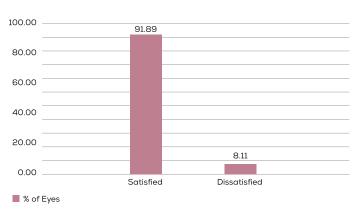
SPECTACLE INDEPENDENCE FOR DIFFERENT DISTANCES*

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

FAR VISION

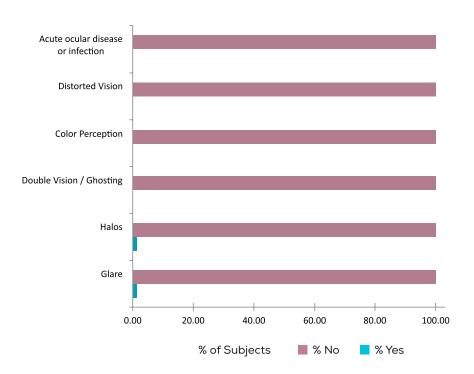


INTERMEDIATE VISION



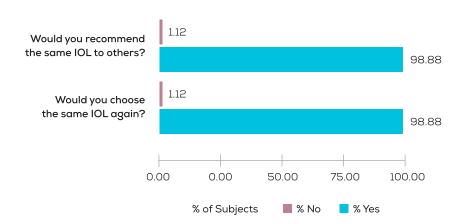
PHOTIC PHENOMENON & VISUAL DISTURBANCE*

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



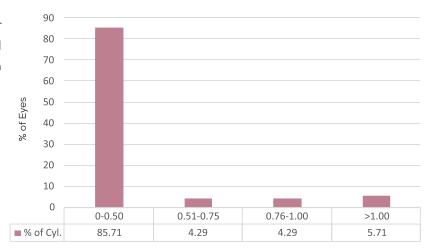
PATIENT SATISFACTION*

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



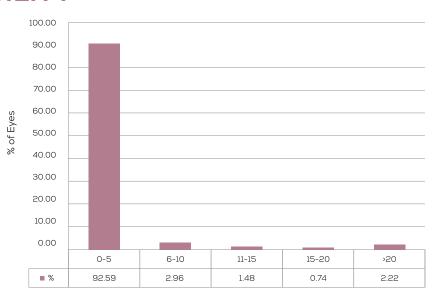
REFRACTIVE CYLINDRICAL RESIDUAL

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



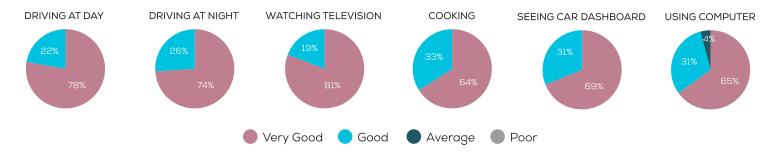
IOL ROTATIONAL STABILITY

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.



MODELS AVAILABLE

Model	Labeled Cylinder Power	Cylindrical Power		Recommended Range of
		At IOL Plane	At Corneal Plane*	Corneal Astigmatism Correction
PLHFD6T	CYL D: 1.00 D	1.00 D	0.68 D	0.25 D to 0.86.0 D
PLHFD6T	CYL D: 1.50 D	1.50 D	1.03 D	0.87 D to 1.25 D
PLHFD6T	CYL D: 2.25 D	2.25 D	1.54 D	1.26 D to 1.75 D
PLHFD6T	CYL D: 3.00 D	3.00 D	2.05 D	1.76 D to 2.25 D
PLHFD6T	CYL D: 3.75 D	3.75 D	2.57 D	2.26 D to 2.75 D
PLHFD6T	CYL D: 4.50 D	4.50 D	3.08 D	2.76 D to 3.25 D
PLHFD6T	CYL D: 5.25 D	5.25 D	3.60 D	3.26 D to 3.75 D
PLHFD6T	CYL D: 6.00 D	6.00 D	4.11 D	3.76 D and above

To choose suitable EYECRYL SERT TORIC model, please logon to



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	O°			
ACD	5.28			
REFRACTIVE INDEX	1.524			
RECOMMENDED ULTRASOUND A-CONSTANT	SRK-T 119.00			
	SRK-T 119.40	SRK-II 119.90		
RECOMMENDED	Holl 1 Const SF: 1.99	HOFFER - Q ACD: 5.78		
OPTICAL A-CONSTANTS	Barrett: 2.09	HAIGIS: a0:1.574, a1:0.400, a2:0.100		
DIOPTER RANGE	+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"			
CYLINDER RANGE (For Toric Version)	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			
DELIVERY SYSTEM	Pre-loaded delivery system			
STERILIZATION	EO			











Scan For Biotech Connect App