



Inspired by natural vision





VISIONCARE



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



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



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 lo 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



1.2D

1.4D

1.6D

1.8D

2.0D









2.2D

PRE-LOADED DELIVERY SYSTEM

SINGLE HAND IMPLANTATION WITH CONTROL OF SCREW TYPE INJECTOR:

BEST OF BOTH WORLDS



SIMPLE IOL IMPLANTATION USING FOLLOWING STEPS







Push the blue injector plunger forward until the front push plate is flush against the injector housing to fold both haptics towards the optic. It is recommended to execute this step with two hands, slowly and gently. Close the cartridge flaps in one move. Ensure that the flaps are locked with a "Click" sound.

Push the blue injector plunger forward until the rear push plate is flush against the injector housing. It is recommended to execute this step slowly and gently. Do not move the plunger further. Please keep the prepared injector system in this position minimum for 30 seconds and maximum up to 1 minute before the IOL implantation. The injector can be kept maximum up to 5 minutes in this position.

Now hold the delivery system with a "Pen Grip", as shown here and keep your index finger on Drive Wheel. As shown in the picture, the thumb and middle finger should hold the injector on the wheel hub (not too far back).

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. Once on starting to rotate the wheel and IOL comes in to narrow area of cartridge, deliver and implant the IOL continuing the action without stopping or waiting.



STEP 06





MONOFOCALIOL VS EYECRYL Sert IOL

MTF COMPARISON*

Monofocal IOL provides 0.5 D to 0.8 D depth of field and EYECRYL[®]Sect 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.



Modulation Transfer Function @3.0 mm aperture

MONOFOCAL IOL

Modulation Transfer Function @3.0 mm aperture

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 ± 0.5D spherical residual. All eyes were within ± 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 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 ± 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*	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

🞧 www.**biotechcalculators**.com **β**

SPECIFICATION	PLHFD6		P L H F D 6 T		
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				
	HAIGIS: a0:1.574, a1:0.400, a2:0.100		HOFFER - Q ACD: 5.78		
RECOMMENDED	HOLLADAY 1 SF: 1,99	HOLLADAY 2 SF: 2.02		HOLLADAY 2 ACD: 5.78	
OPTICAL A-CONSTANTS	SRK-II 119.90	SRK-T	119.40	Barrett: 2.09	
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 a basis as per manufacturing possibility"				stomization on case to case	
	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	RY SYSTEM Pre-loaded delivery system				
STERILIZATION	EO				











Scan For Biotech Connect App

BIOTECH VISION CARE PVT. LTD.

Block 1, Abhishree Corporate Park, Opp. Swagat Bunglow BRTS Stop Bopal – Ambli Road, Ahmedabad – 380 058 Gujarat India | Tel: +91 79 66823000 Email: Domestic: indiasales@biotechhealthcare.com | International: intlsales@biotechhealthcare.com | www.biotechhealthcare.com