

A step towards



Simulated picture of spherical lens in eye



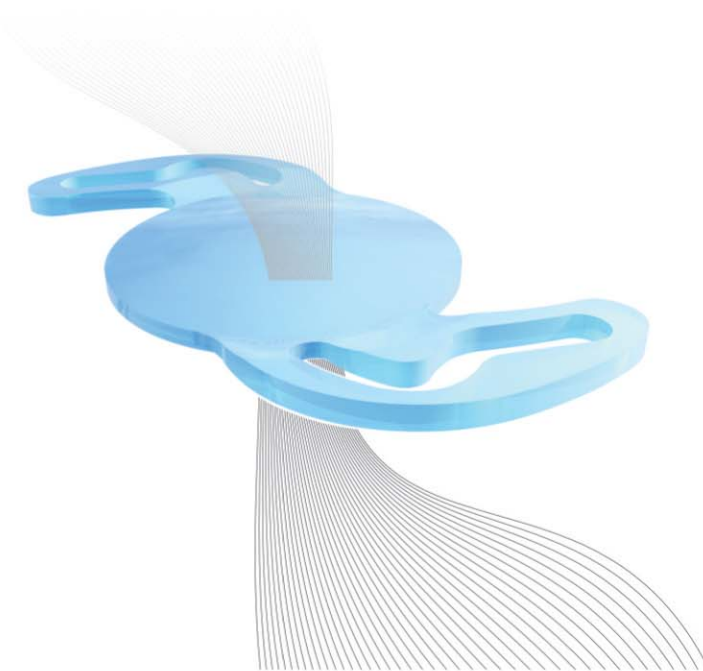
Simulated picture of Aspherical lens in eye

Hydrophilic Acrylic Foldable
Intraocular Lens dual optics

auroflex **EV**

Enhanced Vision

NEGATIVE ASPHERIC IOL



DESIGN CHARACTERISTICS	
Optic Diameter	6 mm
Overall Length	12 mm
Optic	Posterior Aspheric Design
Haptics Design	Dual Haptic
Edge	360° Posterior Square Edge
Angulation	Zero Degree Angulation
A Constant	118.0
ACD	5 mm
Diopter Range	10.0 D to 30.0 D
	15.0 to 25.0 in 0.5 D
Delivery System	Disposable Injector and Cartridge

MODEL NUMBER	FH5600AS
MATERIAL CHARACTERISTICS	
Lens Material	UV Absorbing p-HEMA with proven clinical performance (25% water content)
Refractive Index	1.460

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Excellence . . . in sight

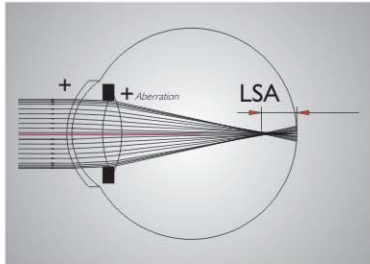
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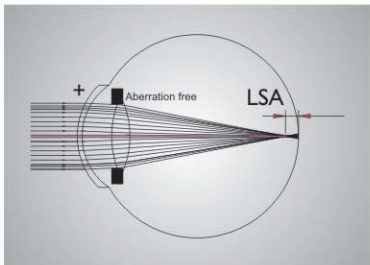
 ARAVIND EYE CARE SYSTEM

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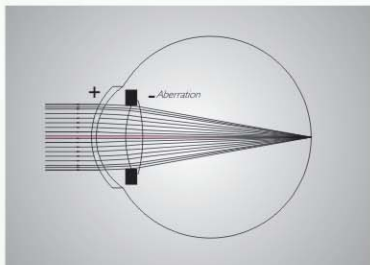
Contrast sensitivity through lens is inversely proportional to the longitudinal spherical aberration(LSA)



Standard Spherical IOL adds to existing positive spherical aberration of cornea reducing the contrast sensitivity and functional vision.



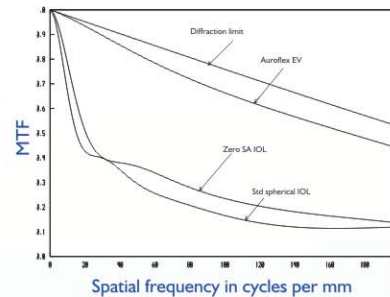
Zero Spherical aberration IOL does not add to the existing positive spherical aberration of cornea, but higher order aberrations are not addressed.



Negative Spherical aberration IOL (Auroflex EV) compensates the positive spherical aberration of cornea, thereby enhancing functional vision under low light conditions.

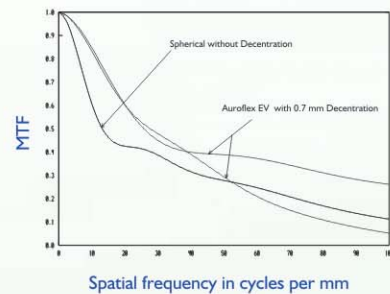
The above illustration shows that the longitudinal spherical aberration (LSA) is least with negative aberration aspheric IOL

MTF comparison of various IOLs

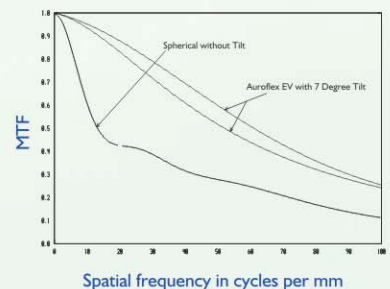


Given figure is the MTF of Aspheric IOLs and standard spherical IOL (for comparison), 22.0 D, In ISO Modified* eye model. Pupil size is 4.5mm, IOLs perfectly centered

MTF of 0.7mm decentered 22.0 D *auroflex EV*



MTF of 7° tilted 22.0 D *auroflex EV*



Negative Aspheric IOL

- **Negative spherical aberration IOL**
 - designed to partially compensate average corneal positive spherical aberration
- **Enhanced functional vision**
 - In mesopic & scotopic conditions
- **Enhanced contrast sensitivity**
- **Less sensitive to tilt and decentration**
- **360° Square Edge**
- **Comes with a disposable delivery system**
- **Proven material and well accepted design**

* S. Norrby, P.Piers, C.Campbell and M. Van der Mooren, "Model eyes for evaluation of intraocular Lenses", Appl. Opt.46, No.26, 6595-6605(2007)