

A step towards



Simulated picture of spherical lens in eye



Simulated picture of Auroflex EV in eye

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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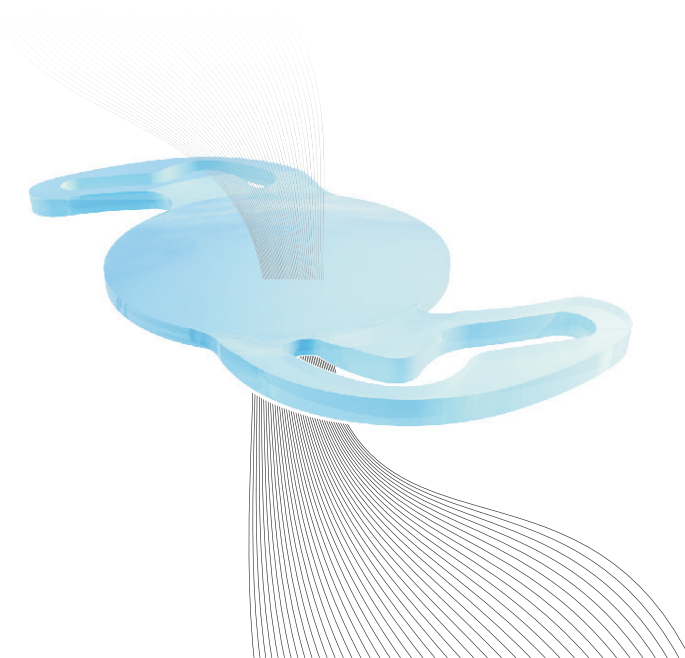
Issue : 06 - 04 / 14

Hydrophilic Acrylic Foldable
Intraocular Lens with dual optics

aurolab EV

Enhanced Vision

NEGATIVE ASPHERIC IOL

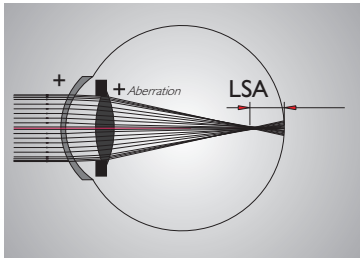


ARAVIND EYE CARE SYSTEM

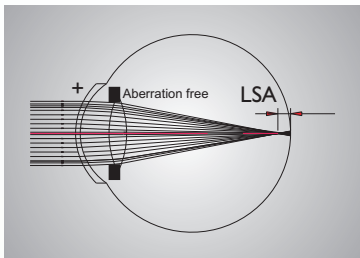


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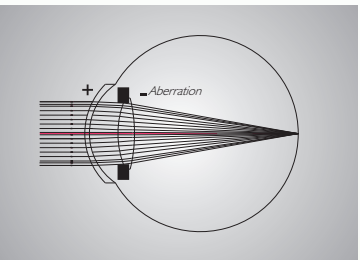
Contrast sensitivity through lens is inversely proportional to the Longitudinal Spherical Aberration(LSA)



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



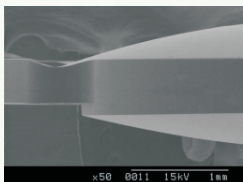
Zero Spherical aberration IOL does not add to the existing positive spherical aberration of cornea, but higher order aberrations are not addressed.



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

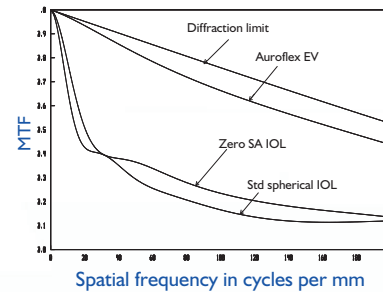
TRUEDGE TECHNOLOGY



360° posterior square edge with 0.1mm projection at optic - haptic junction

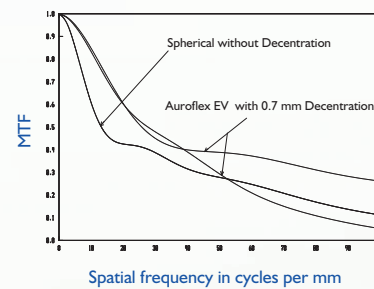
SEM Image of Auroflex EV

MTF comparison of various IOLs

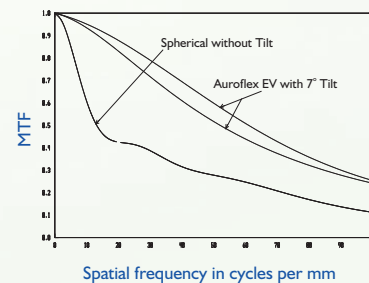


Given figure is the MTF of Aspheric IOLs and standard spherical IOL (for comparison), 22.0 D, In ISO Modified* eye model. Pupil size is 4.5mm, IOLs perfectly centered

MTF of 1.0mm decentered auroflex EV



MTF of 10° tilted auroflex EV



Negative Aspheric IOL

- **Negative spherical aberration IOL**
 - Optic designed with -0.15μ of spherical aberration
 - Partial correction & compensation of average corneal spherical aberration
- **Enhanced functional vision**
 - In mesopic & scotopic conditions
- **Enhanced contrast sensitivity**
- **Less sensitive to tilt and decentration**
- **With Truedge Technology to prevent PCO**
- **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)