
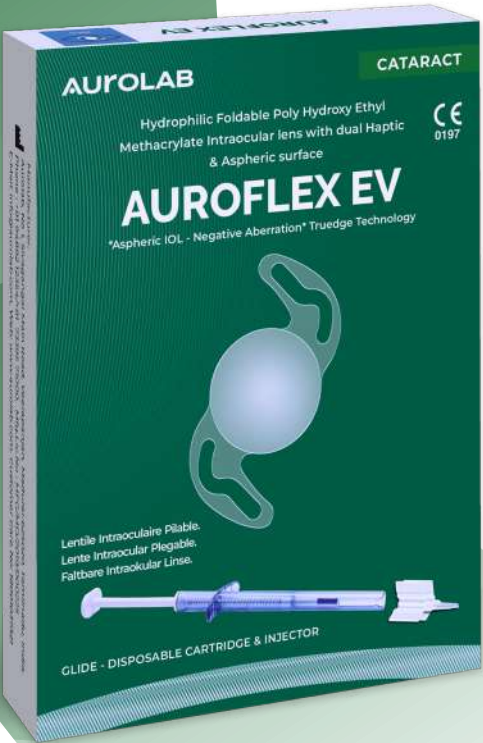


# TECHNICAL SPECIFICATIONS

| PRODUCT SPECIFICATIONS    |   | INJECTOR SYSTEM  |                                    |
|---------------------------|---|--|------------------------------------|
| Model Number              | FH5600AS  | Hydrophilic  | Auroflex EV                        |
| Optic Diameter            | 6.00 mm   | Injector   | Disposable                         |
| Optic Design              | Aspheric Design (Negative Aberration)   | Recommended Injector Model   | Packed with AC22-DI260Y AC28-DI100 |
| Haptic Design             | Dual Haptic, Square Edge  |  |                                    |
| Overall Length            | 12 mm   | Incision Size  | 2.2 mm / 2.8 mm                    |
| Angulation                | 0°  | <div>QR Code for Hydrophillic Loading Techniques:<br/>Scan and watch the video.</div> <div></div> |                                    |
| ACD                       | 5.0 mm  |  |                                    |
| Refractive Index          | 1.46  |  |                                    |
| A Constant                | 118.0 (Optical), 117.7 (Ultra Sound)  |  |                                    |
| Water Content in material | 25%   |  |                                    |
| Sterilization             | Steam Sterilized  |  |                                    |
| Implantation              | Using Disposable Cartridge  |  |                                    |
| Dioptre Range             | 10.0 D to 15.0 D in 1.0 D increment<br>15.0 D to 25.0 D in 0.5 D increment<br>25.0 D to 30.0 D in 1.0 D increment |  |                                    |



Information published in this catalogue is subject to change without notification

For a demo or more information on how your patients can benefit from Aurolab products, call at **1800 103 7321** or email us at **[aurolab@aurolab.com](mailto:aurolab@aurolab.com)**

## AUROLAB

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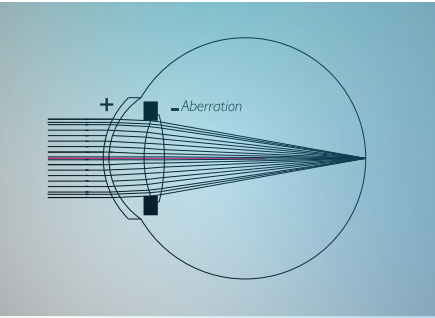
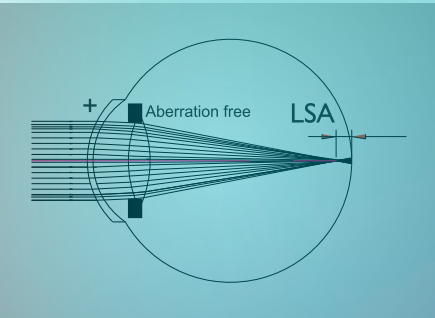
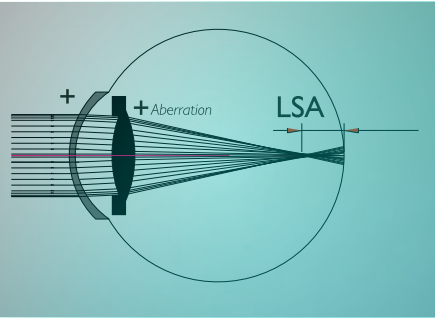
# Auroflex EV

Hydrophilic Foldable Poly Hydroxy Ethyl Methacrylate Intraocular lens with dual Haptic & Aspheric surface

# CONTRAST SENSITIVITY THROUGH LENS IS INVERSELY PROPORTIONAL TO THE LONGITUDINAL SPHERICAL ABBERATION (LSA)

- **Standard Spherical IOL:** Adds to existing positive spherical aberration of the cornea, reducing contrast sensitivity and functional vision.
- **Zero Spherical Aberration IOL:** Does not add to the existing positive spherical aberration of the cornea, but higher-order aberrations are not addressed.
- **Negative Spherical Aberration IOL (Auroflex EV):** Compensates for the positive spherical aberration of the cornea, enhancing functional vision under low light conditions.

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

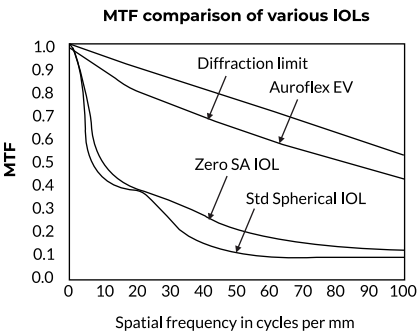


## Truedge Technology

- 360° posterior square edge with 0.1 mm projection at the optic-haptic junction
- SEM Image of Auroflex EV

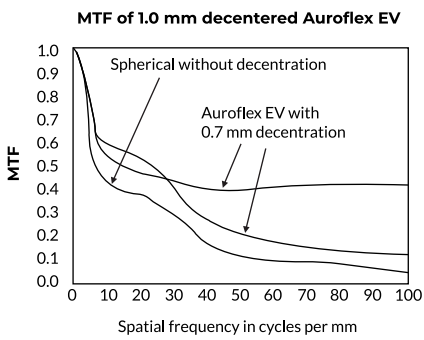
## MTF Comparison of Various IOLs

- MTF (Modulation Transfer Function) comparison between Auroflex EV, Zero SA IOL, and standard spherical IOL.
- Given figure shows the MTF of Aspheric IOLs and standard spherical IOL (for comparison), with 22.0 D in ISO modified eye model. Pupil size is 4.5 mm, IOLs perfectly centered.



## MTF of 1.0 mm decentered Auroflex EV

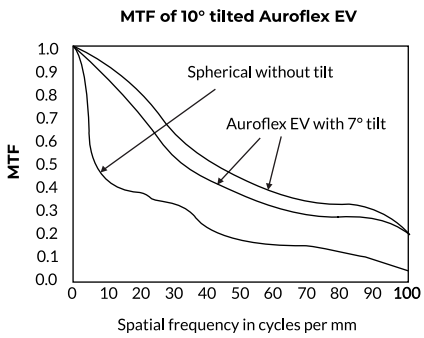
- Comparison of MTF in decentered spherical vs decentered Auroflex EV.



## MTF of 10° tilted Auroflex EV

- Comparison of MTF in tilted spherical vs tilted Auroflex EV.

Reference: S. Norrby, P.Piers, C.Campbell, and M. Van der Mooren, "Model eyes for evaluation of intraocular lenses," *Applied Optics*, Vol. 46, No. 26, 6595-6605 (2007)



## ABERRATION FREE VISION

- **Negative Spherical Aberration IOL**
  - Optic designed with  $-0.15 \mu$  of spherical aberration
  - Partial correction & compensation of average corneal spherical aberration
- **Enhanced Functional Vision**
  - Effective in mesopic & scotopic (low-light) conditions
- **Enhanced Contrast Sensitivity**
- **Less Sensitive to Tilt and Decentration**
- **Truedge Technology to Prevent PCO**
- **Comes with a Disposable Delivery System**
- **Proven Material and Well-Accepted Design**

## SIMULATED IMAGE COMPARISON



Simulated picture of spherical lens in eye



Simulated picture of Auroflex EV in eye