

aurovue *EV Gold*
preloaded I O L



Hydrophobic Yellow Acrylic Aspheric IOL • Negative Aberration Optic
Truedge Technology • Preloaded Disposable Delivery System

Enhancing Vision

A negative spherical aberration of -0.15μ is provided to:

- Imitate results of the young natural crystalline lens.
- Enhance depth of focus and contrast sensitivity in mesopic and scotopic conditions.
- Even a optic tilt of 10 degree and decentration of 1.0 mm in the capsular bag will not affect the quality of vision.
- Suits cornea of majority of the global population.



Simulated image with cataract eye



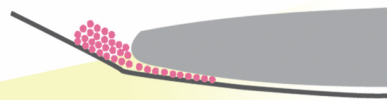
Simulated image with Zero aberration IOL



Simulated image with Aurovue EV Gold

Special Features of Aurovue EV Gold

• Yellow chromophore blocks blue light of selective wave length and prevents retinal damage



In normal IOL, cells may migrate behind the lens

• Truedge technology : 360° Square Edge acts as a mechanical barrier for cell proliferation



In IOL with Truedge Technology, cell migration is blocked

• 0.1mm projection at the optic-haptic junction prevents cell migration even through the haptic



• Anterior optic is round edged to prevent internal reflections

• Lower glass transition temperature (8°C) keeps the lens relatively flexible at lower temperature

• Aurovue EV Gold has higher Abbe number of 55 which provides better color perception to the patient by reducing chromatic aberration

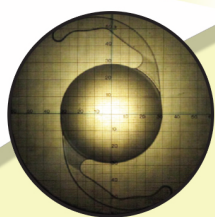
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Simulated image with chromatic aberration

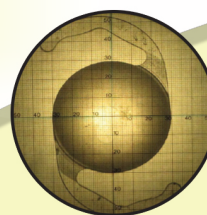
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Simulated image without chromatic aberration

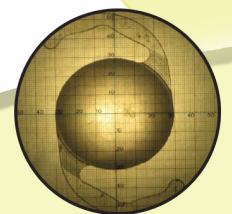
• Aurovue EV Gold optic and haptics are designed to fit in the capsular bag of varied sizes. Aurovue EV Gold adapts well to the postoperative retraction of the capsular bag and ensures centration and stability of the lens



12 mm ring

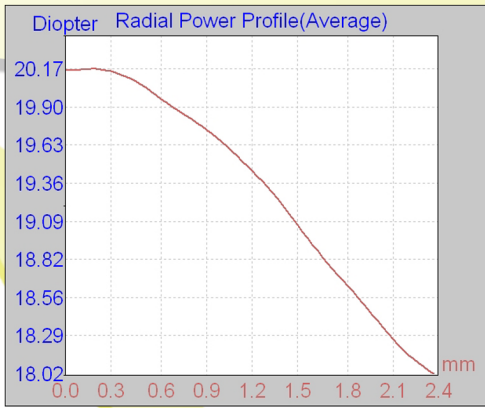


11 mm ring

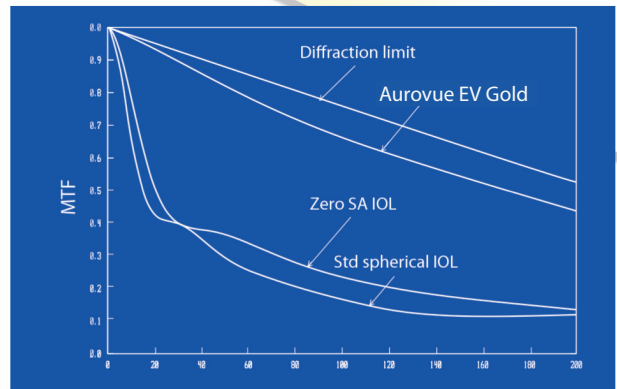


10 mm ring

Power distribution in Aurovue EV Gold

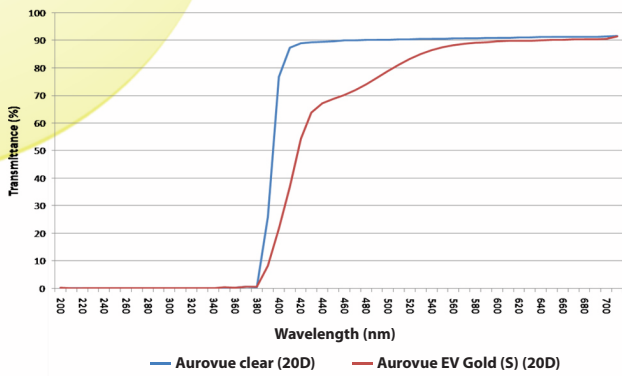


MTF comparison of various IOLs

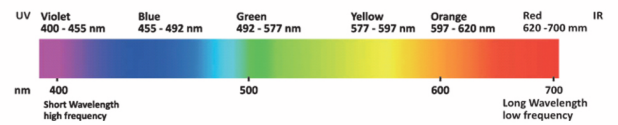


Spatial frequency in cycles per mm

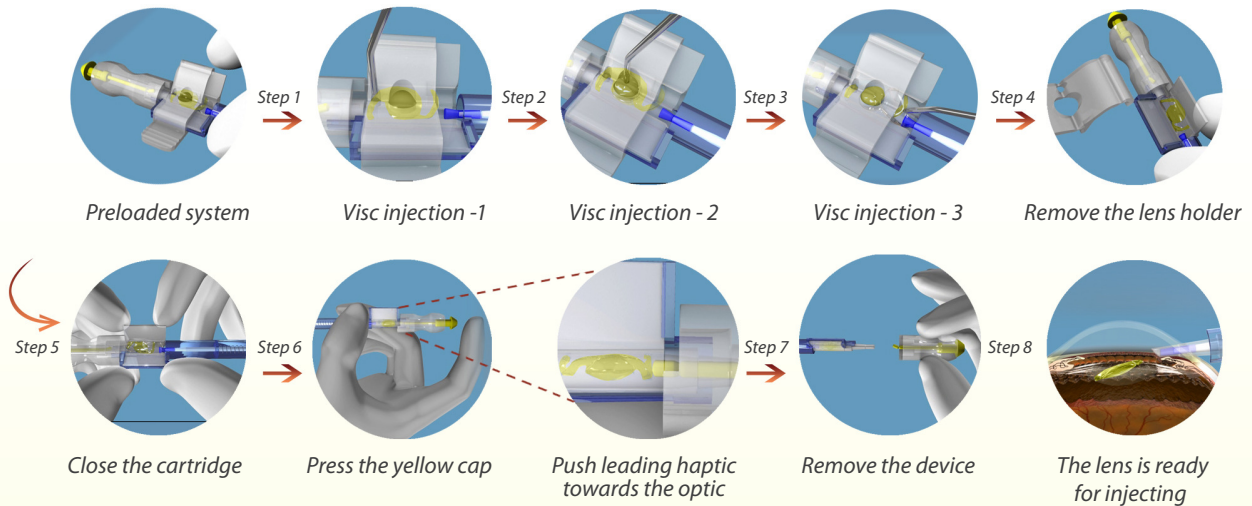
Aurovue Clear Vs Aurovue EV Gold (20D)



Visible spectrum



Procedure for use



Design Characteristics

Optic Diameter	6.00mm
Overall Length	12.5mm
Optic Design	Aspheric (Negative Aberration)
Haptics Design	Force Enduring Haptics
Convexity	Biconvex
Angulation	3° Angulation
Square Edge	360° Square Edge
A Constant	118.7 (Optical) 118.4 (Ultra Sound)
ACD Value	5 mm
Diopter Range	10.0 to 15.0 in 1.0 D increment 15.0 to 25.0 in 0.5 D increment 25.0 to 30.0 in 1.0 D increment
Delivery System	Disposable preloaded injector & cartridge for 2.8 mm incision (10.0 D to 25.0 D) 3.2 mm incision (above 25.0 D)

Model: HP760APY

Material Characteristics

Lens Material	Hydrophobic yellow acrylic
10% UV Cut off	385 nm
Light Transmittance	More than 90%
Glass Transition Temperature	8° C
Refractive Index	1.47

Information published in this catalogue is subject to change without notification



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