More Vision Per Diopter

The HD Bi-Apsheric optic provides Extended Depth of Vision (EDOV)1,3,4

Improved Design

Enhanced design to accommodate smaller eyes

- Several studies indicate the capsular bag reduces in size following cataract surgery, due to natural fibers.1,7,8 A sampling of eyes indicated that the bag shrunk from 10.9 mm intraoperatively to 9.0 mm at 6-months post-op.
- Capsular bag size has been shown to strongly correlate to axial length.4,9,10 Patient with smaller than average capsular bags have shorter axial length.
- The implantation of an IOL which is too long can compromise final effective position.

Extended Depth Of Vision (EDOV)

- Depth of field was significantly improved without any compromise in distance visual performance.1
- A greater percentage of distance-targeted patients may obtain good UCVA with a Bi-Apsheric optic. Patients with shorter AL may be more likely to spontaneously achieve near vision spectacle independence.1
- Residual positive spherical aberration (from the cornea) combined with myopic defocus can actually improve visual quality with a Bi-Apsheric optic.2

- Data collected in FDA study with the standard Tetraflex shows a mean 1.96 D of accommodation at 2 years.12
- The extrapolated cumulative effect of adding 1D of EDOV would provide 2.56 D of total accommodative effect with the enhanced Tetraflex HD.

FDA & Peer Review Data

Greater spectacle independence1
Uncorrected distance vision and concurrent uncorrected near vision.

Extended Depth Of Vision Movement of Action

Changes in optical aberrations because of the flatter of the IOL on accommodative effect.10 Aberrations that appear to be most commonly affected by the accommodative demand of the stimulus viewed were vertical primary and secondary astigmatism, vertical coma, horizontal and vertical primary and secondary trefoil, and spherical aberration.11

The Tetraflex HD lens with a Bi-Apsheric optic has demonstrated significant advantage when compared with a spherical IOL1:

- The Tetraflex HD showed improved distance, intermediate and near visual acuity.2
- A considerably better defocus curve profile was achieved over a range of 600D to 1.0D when compared to the Tetraflex IOL with a spherical optic.2