



NEW

XtraFocus

INTRAOCULAR PINHOLE IMPLANT

THE XTRAFOCUS IS AN ELEGANT SOLUTION TO COMPLEX CASES.

The XtraFocus pinhole implant is a one-piece, small-aperture diaphragm designed for implantation in the ciliary sulcus in pseudophakic eyes, in a piggyback configuration.

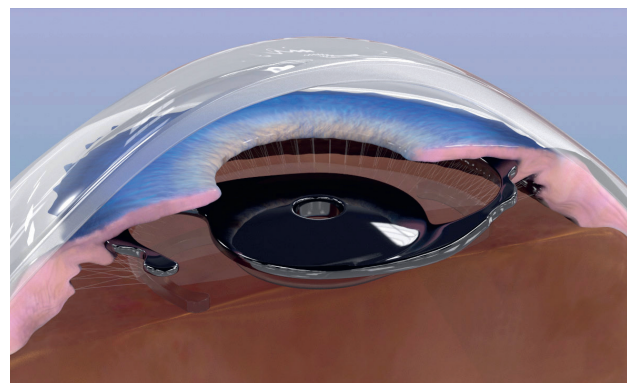
The main indication is the treatment of irregular corneal astigmatism, with reduction of high order corneal aberrations.

The implant is made of a black opaque foldable hydrophobic acrylic material. The implant has a small central opening (1.3 mm) with no refractive power. The pinhole central opening is very close to the nodal point of the eye, minimizing the impact of this diaphragm on the visual field. **The material is non transparent to visible light but 100 % transparent to infrared light**, allowing examination of the retina with devices that operate in this portion of the light spectrum, such as OCT and scanning laser ophthalmoscope.

The intraocular implant has a larger overall diameter (14.0 mm) than most 1-piece IOLs for in-the-bag implantation. The 250 micron thick haptics are rounded and extremely well polished. The 360-degree rounded edge of the optic and the 14-degree angulation of the haptics prevent iris chafing.

The principle behind this intraocular implant dates back to Aristotle's observation on the pinhole effect in the 4th century BCE. The pinhole principle is based on the exclusion of peripheral ocular light rays of the image formation process, extending depth of focus. Since paraxial rays are less susceptible to optical aberrations, the result is a better image resolution.

When irregular corneal astigmatism is present, pinhole acuity testing usually yields a better vision than the best possible refraction because it limits the image formation to paraxial light rays only.





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	TYPE 93L
Total Diameter	14.0 mm
Pinhole Diameter	1.3 mm
„Optic“ diameter	6.0 mm (concave-convex / no refractive power)
Position	Sulcus
Haptic	2 Open-Loop 14° (250 micron)
Material	BLACK Hydrophobic Acrylic
Water Content	< 0.5 %
Injector (recommendation)	Alcon Monarch III with D cartridge Medicel VISCOJECT™-BIO 2.2 Injector Set (LP604340C)

Indications

The main indication for the XtraFocus Pinhole Implant is the **treatment of irregular corneal astigmatism (ICA)**.

This includes

- » Keratoconus
- » Pellucid Marginal Degeneration
- » Post-Radial Keratotomy ICA
- » Post-Penetrating Keratoplasty ICA
- » Post-LASIK Ectasia
- » Traumatic corneal laceration

Secondary indications are

- » **Near Vision** Enhancement in **Monofocal Pseudophakia** (Depth of Focus Extension)
- » Reduction of **Dysphotopsias** in **Multifocal Pseudophakia** (Halos and Glare)