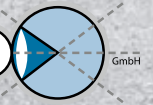


OPHTHALMO

Pro



Products for ophthalmic surgery

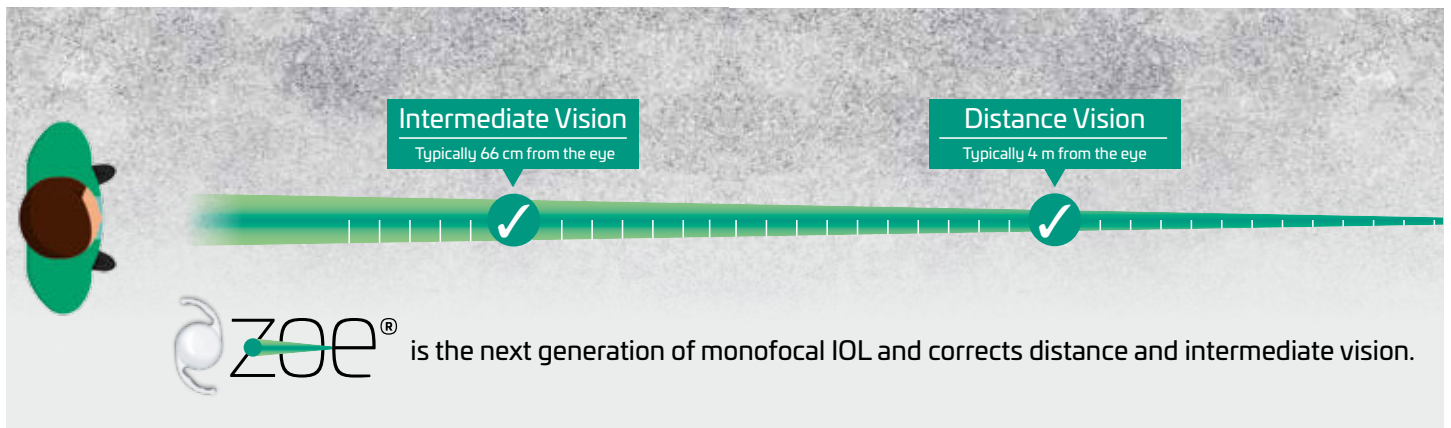
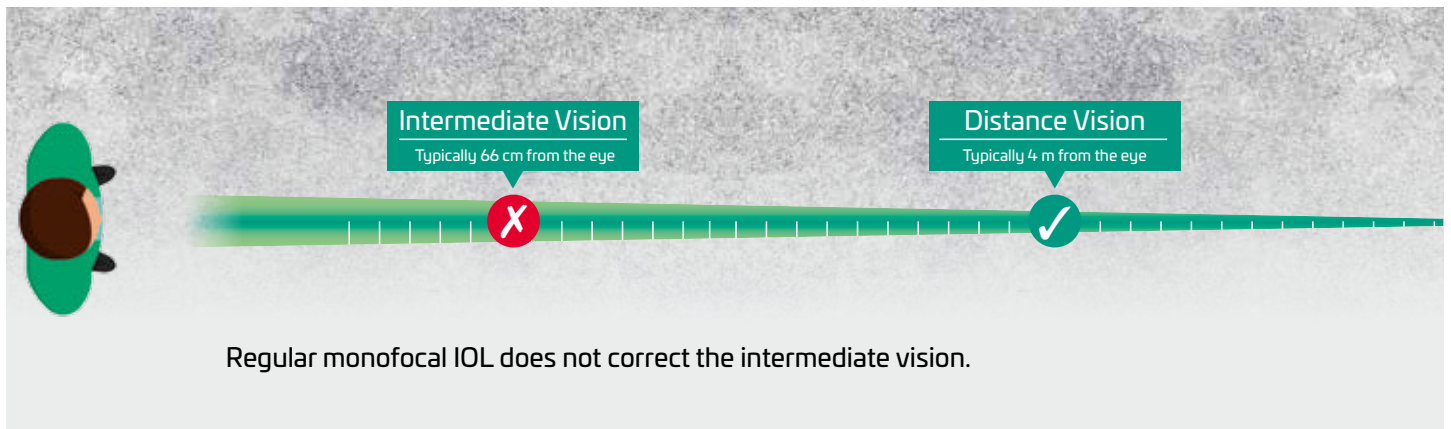
zoe[®]

zone operating enhancement

*beyond monofocal
for far and intermediate distance*

zoe[®] – beyond monofocal

This next-generation monofocal intraocular lens *zoe[®]* allows patients to experience high-quality vision at both **intermediate** and **far** distances.



Today, most monofocal lenses only correct vision to help cataract patients see objects at a distance, and so they do not improve the intermediate vision that is required for so many important daily tasks.



*zoe[®] helps patients
improve daily tasks.*

Glistening-free acrylic

The superiority of the hydrophobic acrylic material used in the zoe[®] was confirmed by the David J Apple Laboratory in Heidelberg using accelerated in-vitro ageing tests for the formation of glistenings that might appear several years post-implantation. The results indicated that the zoe[®] can be termed "glistening free".



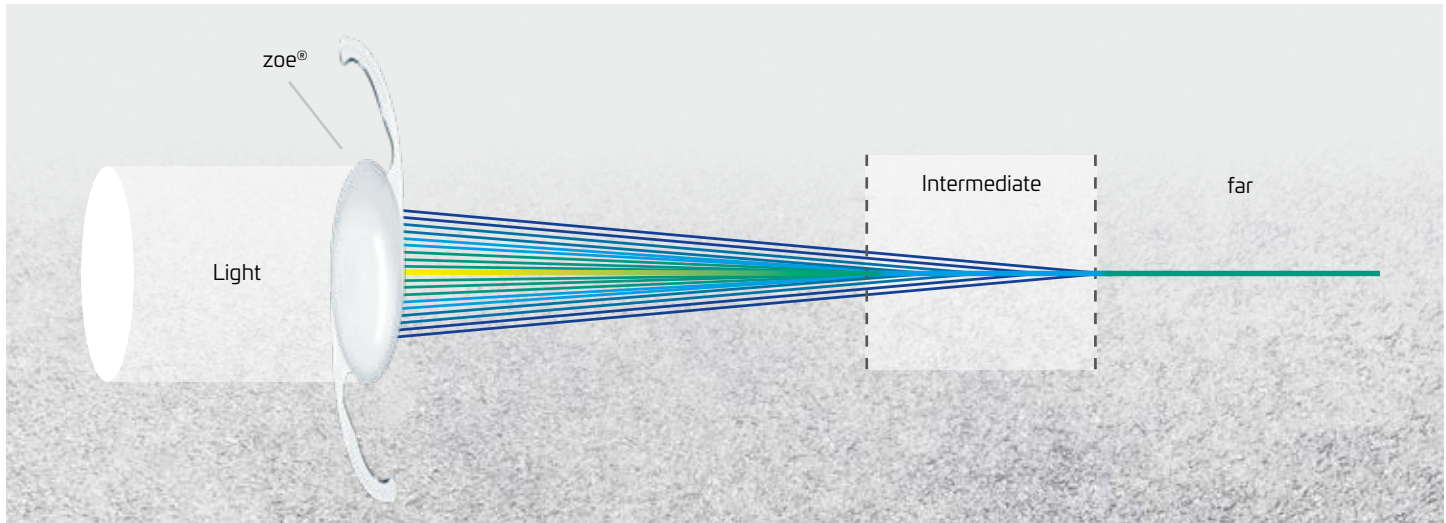
zoe[®] without glistenings



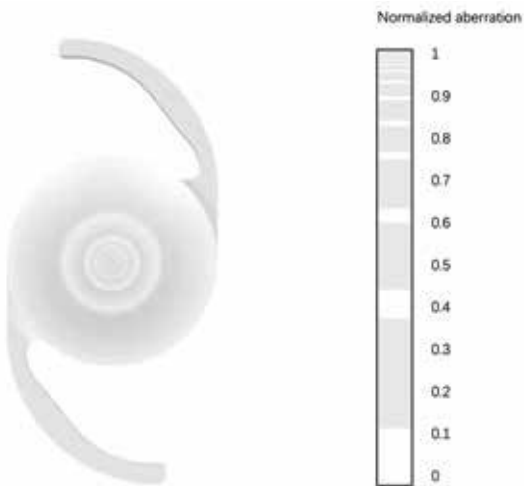
Clinical image of Competitor IOL with Grade 4 Glistening

The technology

With its special and unique, High-Order anterior surface, the zoe® improves intermediate vision and maintains excellent distance image quality comparable to regular monofocal IOL.

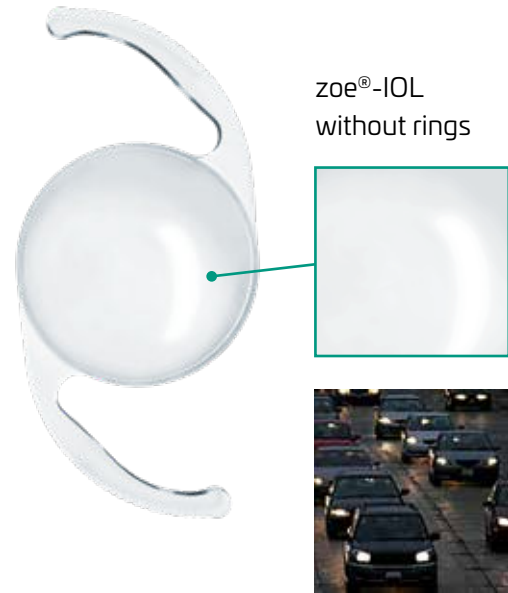


ASPHERIC REFRACTIVE EDOF IOL zoe®



Because its monofocal optic does not have diffractive rings, the zoe® design keeps photic phenomena to a minimum, comparable to a regular monofocal IOL and the zoe® design minimises the spherical aberration to almost zero.

EDOF is realized on high order aspherical optic with regionally modulated aberration.



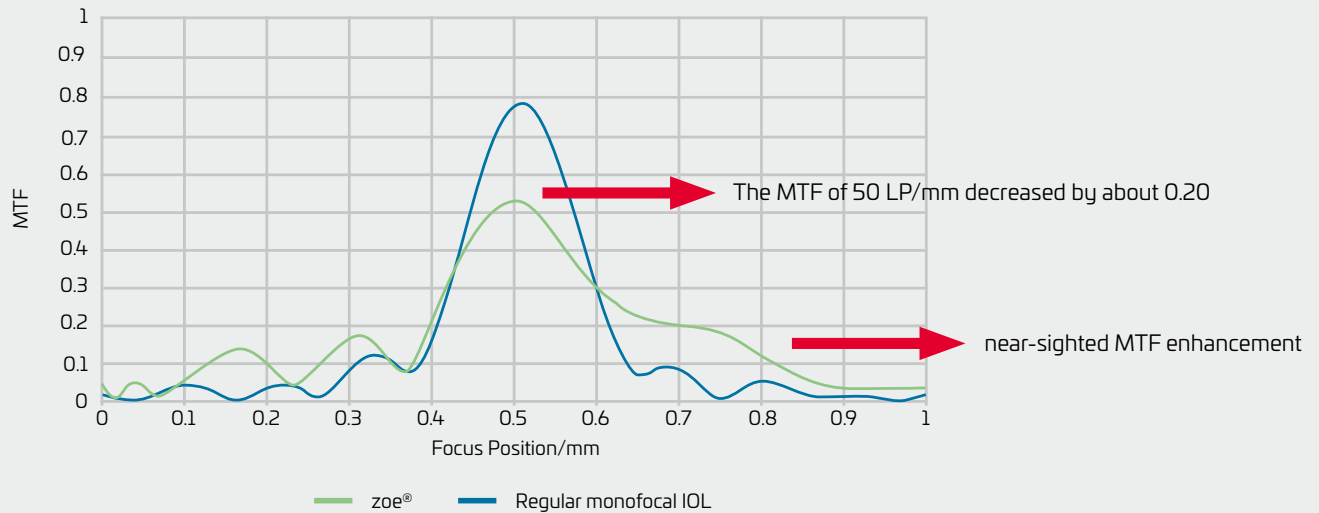
100% 1-Step preloaded

Just like the monofocal aspheric Primus-HD® IOL, the zoe® is preloaded in its injector using our well-established "ProSert" 1-Step Preloaded system. This perfectly protects the IOL against contamination. For surgical staff it is easy to use and it gives the surgeon a most reliable implantation performance, IOL after IOL.

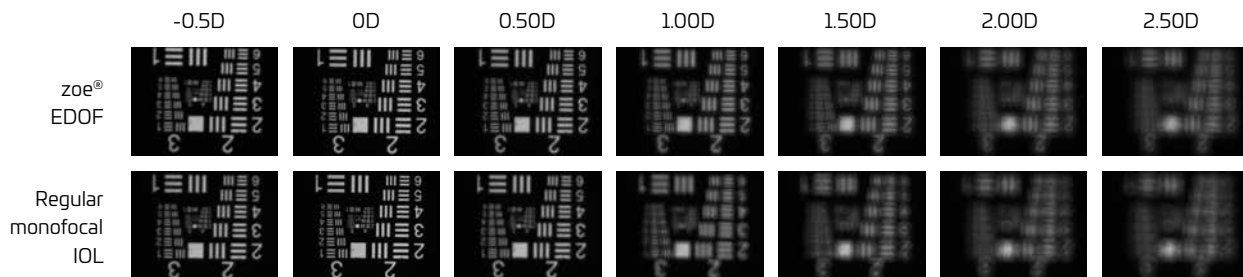
- Dynamic tip allows implantations with 2.0 – 2.2 mm incisions
- Controlled implantation thanks to precision screw thread
- One step "into the bag"
- Optimal lens fit, 100% preloaded
- Outer diameter of the injector tip: 1.78 mm



MTF test results



USAF image test



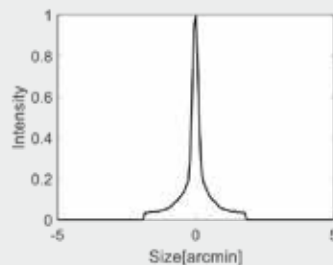
- The clarity of far focus is no different to that of that monofocal IOL, but the near-sighted distance is increased by +0.75D ~ 1.0D
- No glare, halo or other adverse optical interference regardless of the distance, middle or near

Point Spread Function – Test

PSF image

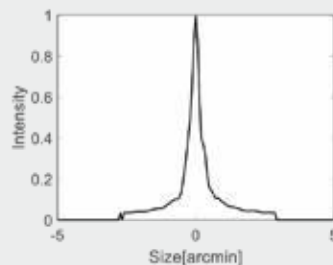
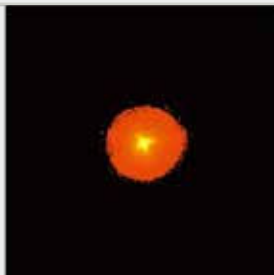
PSF cross section

zoe®



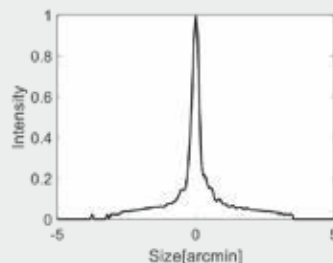
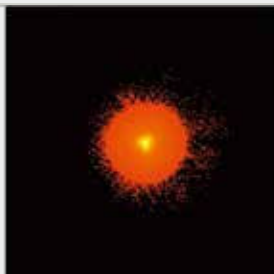
1.81 +- 0.07 arcmin

Competitor A



2.78 +- 0.13 arcmin

Competitor R



3.67 +- 0.18 arcmin

PSF projection confirmed that the zoe® design shows a similar halo profile to a regular monofocal IOL. In comparison, two competitor EDOF IOLs showed halos with significantly higher radius.

zoe[®] Technical data

Model	zoe [®]
IOL type	Single piece
Material	High-purity, hydrophobic acrylic, glistening-free, Miyata Grade Zero
Filter	UV-filter
Lens type	Posterior convex, aspherical optic to correct far and intermediate vision
Power Range	Preloaded across the dioptric range from +5D to +36D in 0.5 D
A constant*	118.9 (nominal)
Lens diameter	6.0 mm optic zone
Total diameter	13.00 mm
Haptic design and Angulation	Modified C-loop, 1.5°
Edge design	360° ultra-sharp square edge, roughened edge

Optimized values for Laser Biometry

Nominal	118.9
Haigis	$a_0=1.499$ $a_1=0.40$ $a_2=0.10$
HofferQ	pACD 5.68
Holladay 1	sf=1.949
SRK/T	119.2
SRKII	119.6
Holladay 2	5.688
Barrett	DF 2.5/LF 2.000

*The A constant is the basis for calculating the lens power.

It is recommended that these be customized based on the experience of the operating surgeon and the equipment used.

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