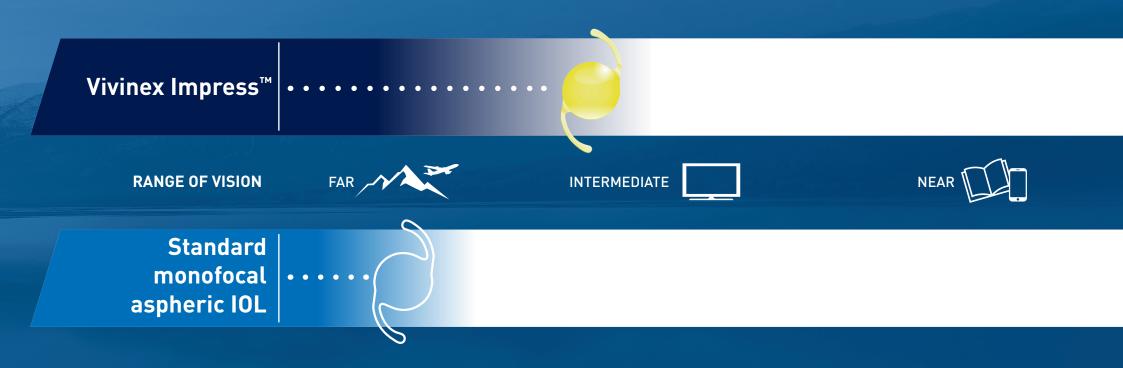
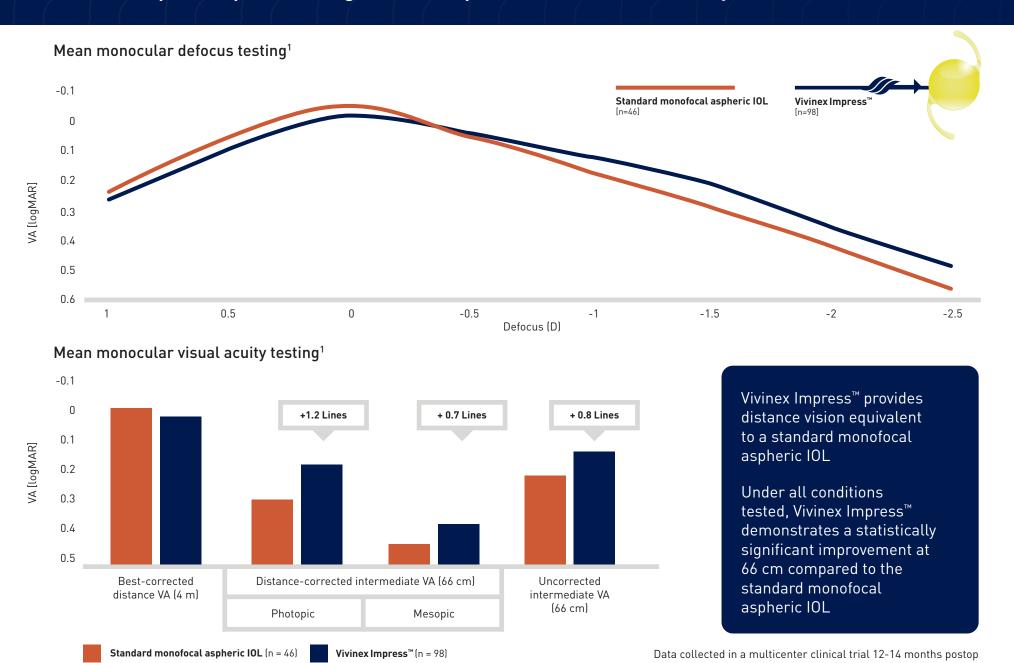


## Vivinex Impress<sup>™</sup> enhances the intermediate vision of monofocal patients



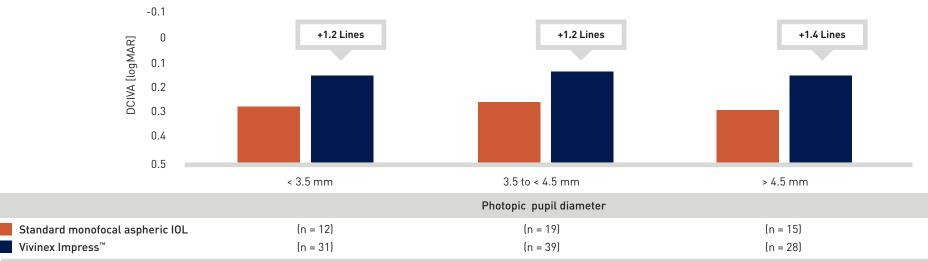
## Vivinex Impress™ provides significant improvement in visual acuity at intermediate distance



# Vivinex Impress<sup>™</sup> consistently provides greater than 1 line of intermediate vision benefit independent of both pupil size and axial length

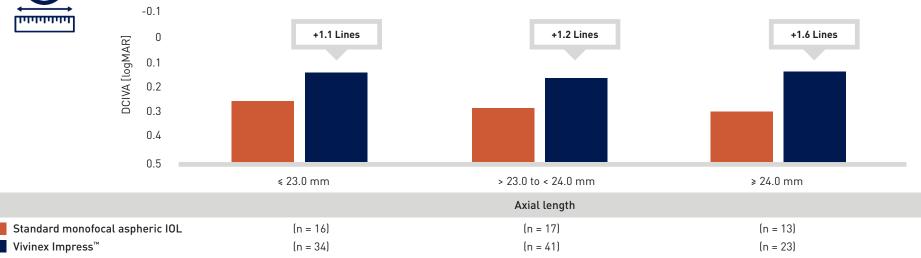


#### Mean intermediate visual acuity benefit by pupil size1

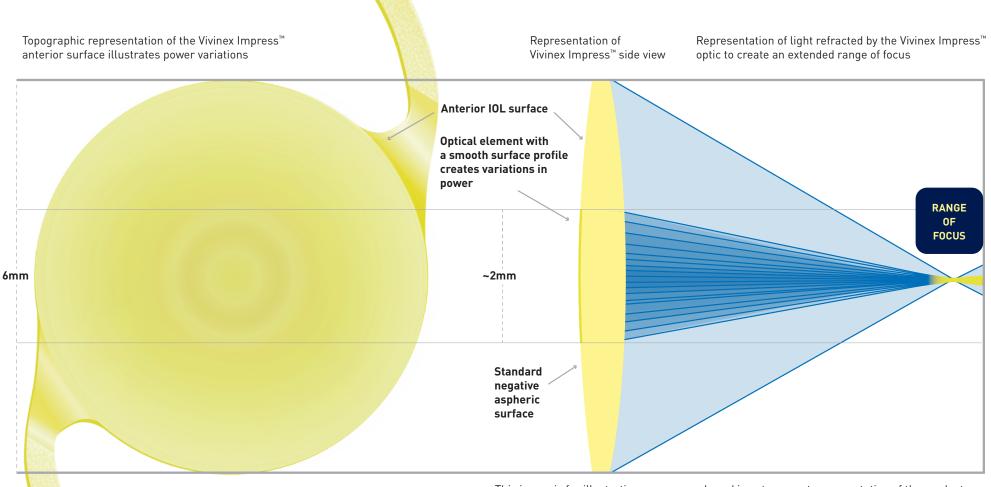




#### Mean intermediate visual acuity benefit by axial length<sup>1</sup>



## So how does Vivinex Impress™ work?



This image is for illustrative purposes only and is not an exact representation of the product.

The central optical element creates variations in power that provide an extended range of focus and improved intermediate vision.

Vivinex Impress™ looks the same as a standard monofocal IOL.²

## Benefits of the Vivinex<sup>™</sup> platform



Glistening-free hydrophobic acrylic IOL material<sup>3,4</sup>



**Improved Image** Quality

Incorporates the Vivinex<sup>™</sup> proprietary aspheric optic design which partially compensates for corneal spherical aberration and is more tolerant to sources of coma than standard aspheric designs<sup>5,6,7</sup>



Reduction of PCO

Active oxygen processing treatment, a smooth surface and square optic edge to reduce PCO<sup>3,4,8,9,10,11,12,13,14</sup>

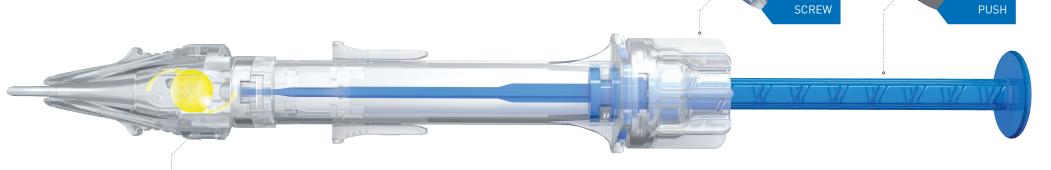


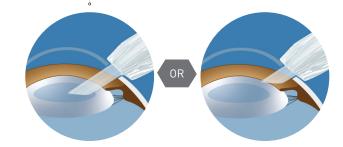
Smooth IOL unfolding and capsular bag stability

Textured rough haptic surface designed to reduce potential for adhesion to the optic surface during delivery, and provides better grip inside the capsular bag

## Delivered in the preloaded multiSert™ injector

Push and screw modes and the ability to control insertion depth Vivinex<sup>™</sup> multiSert<sup>™</sup> is a 4-in-1 delivery system that allows you to achieve outstanding delivery consistency with your choice of injection and insertion style<sup>15</sup>





Delivery into capsular bag insert shield:
Default position

Delivery through incision wound tunnel insert shield:
Advanced position

#### Preloaded injectors are:

Easier to prepare, increasing safety by:16,17,18,19,20,21

- Reducing risk of contamination and infection
- Reducing risk of IOL damage

#### More efficient in the OR:18,20

- Minimising time spent preparing the IOL delivery system
- Creating fewer instruments to reprocess

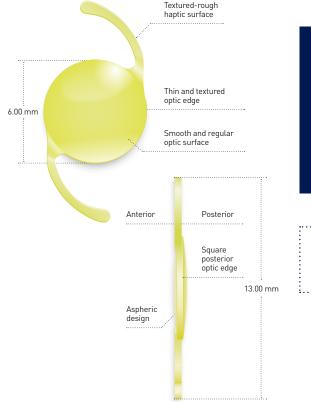
#### More predictable:20

 Increasing predictability and consistency of IOL delivery

## **Specifications**



	Vivinex Impress™
Model name	XY1-EM
Optic design	Biconvex with square, thin and textured optic edge Anterior: Aspheric design
Optic & haptic materials	Hydrophobic acrylic Vivinex™ with UV- and blue light filter
Haptic design	Textured-rough haptic surface
Diameter (optic/OAL)	6.00 mm / 13.00 mm
IOL Power (Spherical equivalent)	+6.00 D to +30.00 D in increments of 0.50 D
Nominal A-constant*	118.8
Injector	multiSert™ preloaded
Front injector tip outer diameter	1.70 mm
Recommended incision size	2.20 mm





### Delivered by the **multiSert™** preloaded injector



0123 2024-08-16 HS0E XY1-EM BR EN



References: 1. Manuscript submitted for publication in August 2024 2. HOYA data on file RnD-20-367, HOYA Medical Singapore, Pte. Ltd, 2023 3. Tandogan, T. et al. [2021]: In-vitro glistening formation in six different foldable hydrophobic intraocular lenses. In: BMC Ophthalmol 21, 126. 4. Auffarth, G. U. et al. [2023]. Randomized multicenter trial to assess posterior capsule opacification and glistenings in two hydrophobic acrylic intraocular lenses. In: Scientific reports, 13 [1], 2822. 5. Perez-Merino, P.; Marcos, S. [2018]: Effect of intraocular lense decentration on image quality tested in a custom model eye. In: Journal of cataract and refractive surgery 44 [7], p. 889-896. 6. Chandra, K. K. et al. [2022]: Effect of decentration on the quality of vision: comparison between aspheric balance curve design and posterior aspheric design intraocular lenses shaped and refractive surgery 45 [9], p. 576-564. 8. Leydolt, C. et al. [2020]: Posterior capsule opacification with two hydrophobic acrylic intraocular lenses: 3-year results of a randomized trial. In: American journal of ophthalmology 217 [9], p. 224-231. 9. Giacinto, C. et al. [2019]: Surface properties of commercially available hydrophobic acrylic intraocular lenses: Comparative study. In: Journal of cataract and refractive surgery 45 [9], p. 1330-1334. 10. Werner, L. et al. [2019]: Evaluation of clarity characteristics in a new hydrophobic acrylic intraocular lense with understanding available square-edged intraocular lenses: Part 2. In: Journal of cataract and refractive surgery 45 [6], p. 847-853. 12. Matsushima, H. et al. [2019]: Evaluation of uveal and capsule biocompatibility of a single-piece hydrophobic acrylic intraocular lenses to prevent posterior capsule opacification. In: Journal of cataract and refractive surgery 32 [6], p. 1035-1040. 13. Farukhi, A. et al. [2015]: Evaluation of uveal and capsule biocompatibility of a single-piece hydrophobic acrylic intraocular lense with ultraviolet-ozone treatment on the posterior surface. In: Journal of ca

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