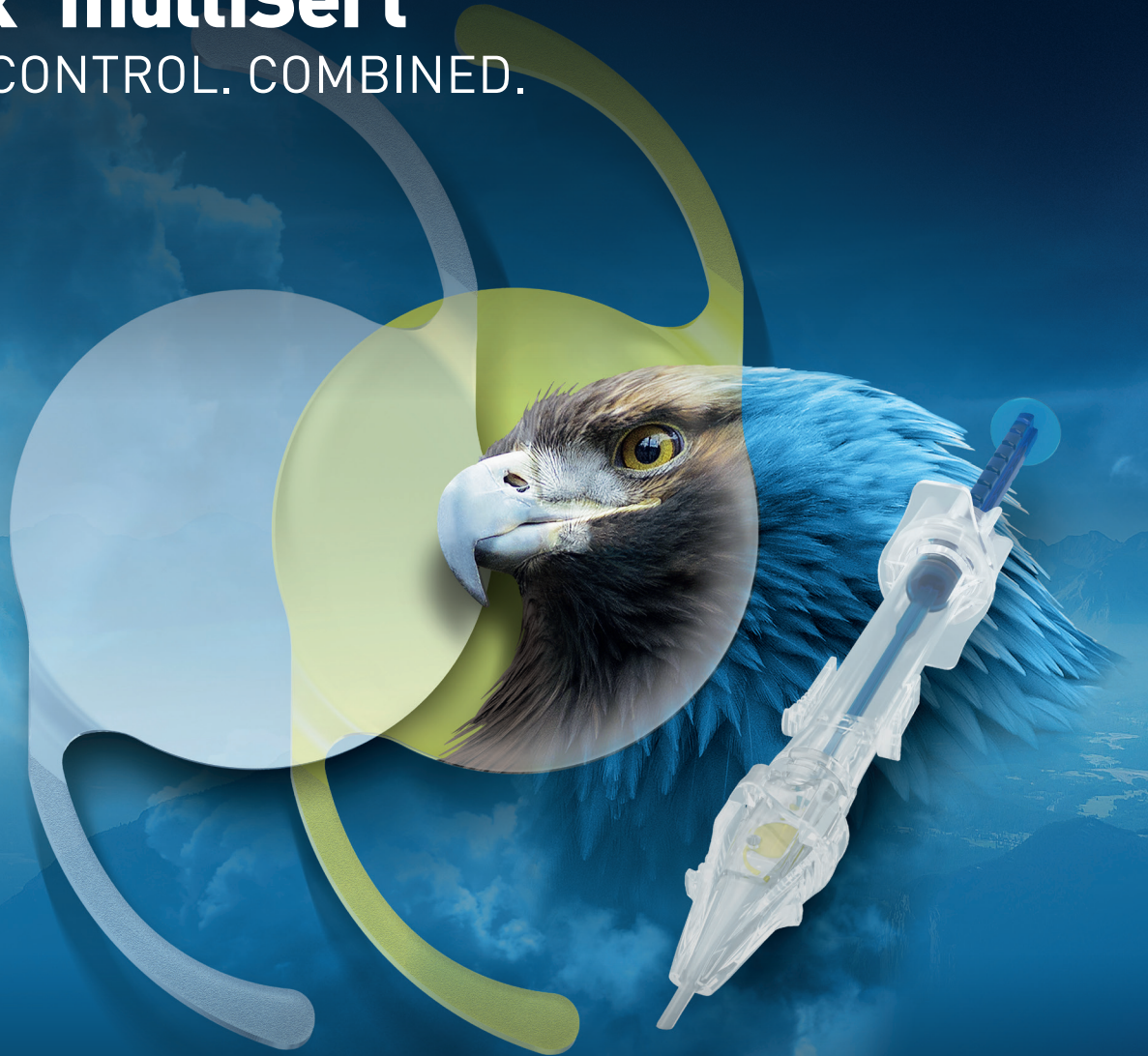


Vivinex™

MODEL **XC1-SP** | MODEL **XY1-SP**

Vivinex™ multiSert™

CLARITY. CONTROL. COMBINED.



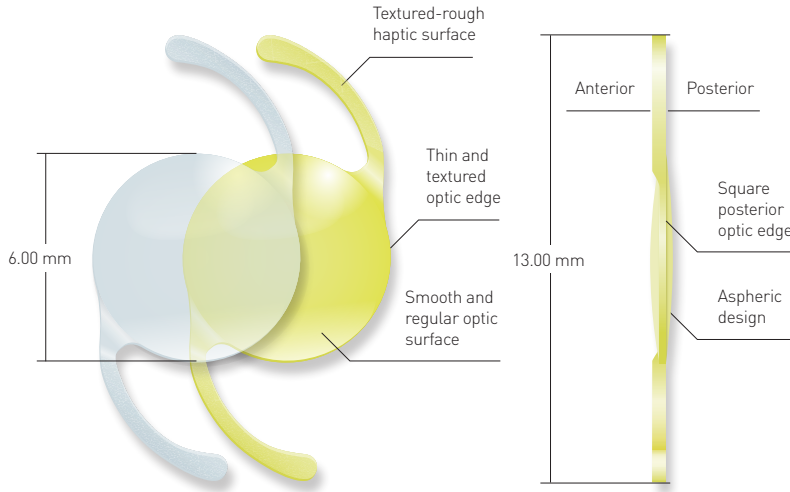
VIVINEX™ OFFERS CLARITY OF VISION

- Glistening-free hydrophobic acrylic IOL material^{1,2}
- Proprietary aspheric optic design for improved image quality³
- Active oxygen processing treatment, a smooth surface and square optic edge to reduce PCO^{2,4,5,6,7,8,9,10}

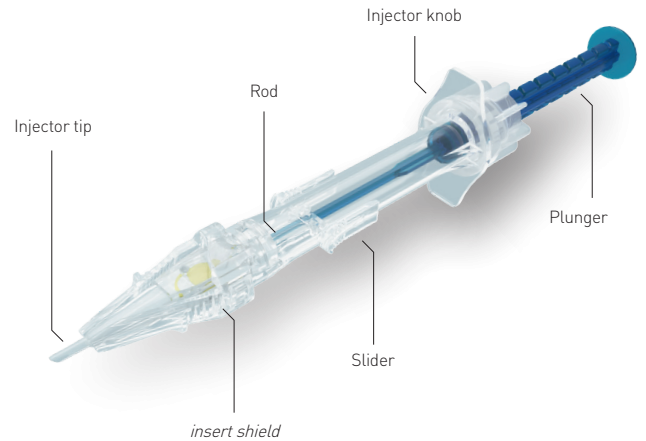
MULTISERT™ PROVIDES UNMATCHED CONTROL AT YOUR FINGERTIPS

- Single-handed push and two-handed screw injection within one device
- Uniquely designed adjustable *insert shield* for precise injector tip insertion depth management
- multiSert™ provides outstandingly consistent and predictable IOL delivery¹¹

Vivinex™ | MODEL XC1-SP | MODEL XY1-SP

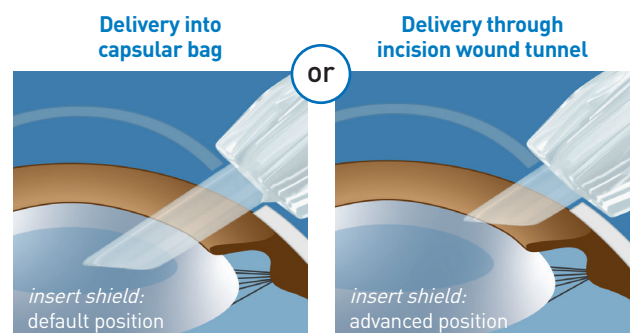
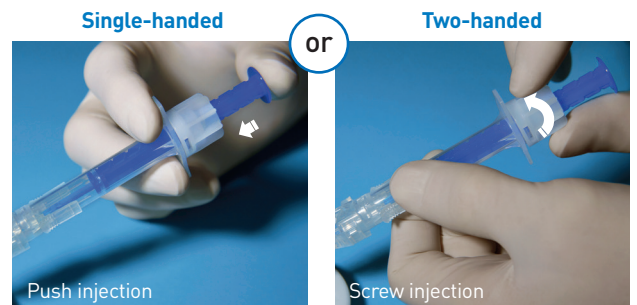


multiSert™



Vivinex™ multiSert™	
Model name	XC1-SP XY1-SP
Optic design	Aspheric design with square, thin and textured optic edge
Optic & haptic materials	Hydrophobic acrylic Vivinex™ with UV-filter (Model XC1-SP), with UV- and blue light filter (Model XY1-SP)
Haptic design	Textured-rough haptic surface
Diameter (optic/OAL)	6.00 mm / 13.00 mm
Power	+6.00 to +30.00 D (in 0.50 D increments)
Nominal A-constant*	118.9
Optimized constants**	Haigis $a_0 = -0.8028$, $a_1 = 0.2133$, $a_2 = 0.2245$
	Hoffer Q $pACD = 5.697$
	Holladay 1 $sf = 1.934$
	SRK/T $A = 119.198$
Injector	multiSert™ preloaded
Front injector tip outer diameter	1.70 mm
Recommended incision size	2.20 mm

4-in-1 multiSert™ offers unmatched control with multiple options



* The A-constant is presented as a starting point for the lens power calculation. When calculating the exact lens power, it is recommended that calculations be performed individually, based on the equipment used and operating surgeon's own experience.
 ** These optimized constants for the calculation of intraocular lens power published by IOLCon on their website: <https://iolcon.org> are calculated from 1,475 clinical results for Vivinex™ model XY1/XC1 as of September 24, 2021. These constants are based on actual surgical data and are provided by IOLCon as a starting point for individual constant optimizations. The information available on the website is based on data originating from other users and not by HOYA Surgical Optics ("HSO"). HSO therefore does not warrant the correctness, completeness and currentness of the contents on the said website.

- Tandogan, T. et al. (2021): In-vitro glistening formation in six different foldable hydrophobic intraocular lenses. In BMC Ophthalmol 21, 126.
- HOYA data on file. DoF-CTM-21-002, HOYA Medical Singapore Pte. Ltd, 2021
- Pérez-Merino, P.; Marcos, S. (2018): Effect of intraocular lens decentration on image quality tested in a custom model eye. In: Journal of cataract and refractive surgery 44 (7), p. 889-896.
- 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.
- 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.
- Werner, L. et al. (2019): Evaluation of clarity characteristics in a new hydrophobic acrylic IOL in comparison to commercially available IOLs. In: Journal of cataract and refractive surgery 45 (10), p. 1490-1497.
- Matsushima, H. et al. (2006): Active oxygen processing for acrylic intraocular lenses to prevent posterior capsule opacification. In: Journal of cataract and refractive surgery 32 (6), p. 1035-1040.
- Farukhi, A. et al. (2015): Evaluation of uveal and capsule biocompatibility of a single-piece hydrophobic acrylic intraocular lens with ultraviolet-ozone treatment on the posterior surface. In: Journal of cataract and refractive surgery 41 (5), p. 1081-1087.
- Eldred, J. et al. (2019): An In Vitro Human Lens Capsular Bag Model Adopting a Graded Culture Regime to Assess Putative Impact of IOLs on PCO Formation. In: Investigative ophthalmology & visual science 60 (1), p. 113-122.
- Nanavaty, M. et al. (2019): Edge profile of commercially available square-edged intraocular lenses: Part 2. In: Journal of cataract and refractive surgery 45 (6), p. 847-853.
- Usability and acceptability evaluation of the multiSert™ injector system, HOYA data on file DoF-SERT-102-MULT-03052018 (2018).

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