

Vivinex™

MODEL XY1A

# Vivinex™ Toric

UNPRECEDENTED CLARITY OF VISION  
AND ROTATIONAL STABILITY

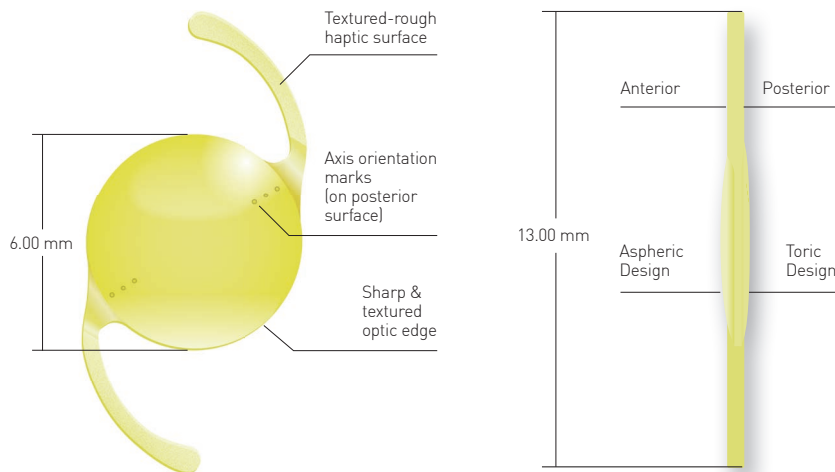


- Glistening-free **hydrophobic acrylic IOL material**<sup>1,3</sup>
- Proprietary **aspheric optic design** for improved image quality<sup>2</sup>
- **Active oxygen processing treatment** and **sharp optic edge to reduce PCO**<sup>3</sup>
- **Vivinex™ Toric** IOL preloaded in the proven **Vivinex™ iSert®** injector system

- Outstanding **rotational stability**<sup>4</sup>
- **Median rotation 1.1°** [range: 0.0°–5.0°]<sup>4</sup>
- **100% of lenses** (n=103) had **≤5° of rotation** from their initial axis at end of surgery through all follow up visits **at 1 hour, 1 week and 6 months**<sup>4</sup>

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Model XY1A	Cylinder Power at IOL Plane	Cylinder Power at Corneal Plane <sup>5</sup>
T2	1.00 D	0.69 D
T3	1.50 D	1.04 D
T4	2.25 D	1.56 D
T5	3.00 D	2.08 D
T6	3.75 D	2.60 D
T7	4.50 D	3.12 D
T8	5.25 D	3.64 D
T9	6.00 D	4.17 D

Vivinex™ Toric				
Model Name	XY1A			
Optic Design	Biconvex with sharp textured optic edge Anterior: Aspheric Design Posterior: Toric Design			
Optic & Haptic Materials	Hydrophobic acrylic Vivinex™ with UV- and blue light filter			
Haptical Design	Textured-rough haptic surface			
Dimensions (Optic/OAL)	6.00 mm / 13.00 mm			
Power	+10.00 to +30.00 D (in 0.50 D increments)			
Cylinder Power <sup>6</sup>	1.00 to 6.00 D (T2 to T9) T2 to T3 in 0.50 D increments T3 to T9 in 0.75 D increments			
Nominal A-Constant <sup>7</sup>	118.9			
Optimized Constants**	Haigis	a0 = -0.278	a1 = 0.215	a2 = 0.201
	Hoffer Q	pACD = 5.71		
	Holladay 1	sf = 1.94		
	SRK/T	A = 119.2		
Front injector tip outer diameter	1.70 mm			
Injector	Vivinex™ iSert® preloaded			

- 1 Glistening-free per Miyata scale; study result of the David J Apple International Laboratory for Ocular Pathology, University Hospital Heidelberg. Report on file.
  - 2 Pérez-Merino P, Marcos S. Effect of intraocular lens decentration on image quality tested in a custom model eye. J Cataract Refract Surg. 2018;44(7):889–896.
  - 3 Data on File of Study PHIV-101-SP2: Clinical Evaluation of the HOYA Vivinex IOL (2018).
  - 4 Schartmüller D, Schriefl S, Schwarzenbacher L, Leydolt C, Menapace R. True rotational stability of a single-piece hydrophobic intraocular lens. Br J Ophthalmol. 2018 Apr 17. pii: bjophthalmol-2017-311797. doi: 10.1136/bjophthalmol-2017-311797.
  - 5 Based on an average pseudophakic human eye.
  - 6 At IOL Plane.
  - 7 Abulafia A et al. New regression formula for toric intraocular lens calculations. J Cataract Refract Surg 2016; 42(5):663–671.
- \* The mentioned A-Constant is presented as a guideline only for lens power calculations. It is recommended that the A-Constant measurement be customized based on the surgeon's experience and measuring equipment.  
 \*\*Source: <https://iolcon.org> Calculated from 911 patient data as of August 17, 2018.

Precise calculation of cylinder power with the new HOYA Toric Calculator. It allows to apply the Abulafia - Koch Regression formula to estimate the astigmatic effect induced by the posterior surface of the cornea.<sup>7</sup>

[www.HOYAtoric.com](http://www.HOYAtoric.com)

