

HELPS DELIVER ASSURANCE
EVERY STEP OF THE WAY.



*Intended target is defined as within 0.5 D of target astigmatism.

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2. Haigis W. Challenges and approaches in modern biometry and IOL calculation. *Saudi J Ophthalmol.* 2012;26(1):7-12.
3. U.S. Food and Drug Administration. Summary of Safety and Effectiveness Data P930014/S15, AcrySof® Toric IOL. http://www.accessdata.fda.gov/cdrh_docs/pdf/P930014/S015b.pdf. Published September 2005. Accessed August 30, 2015.
4. Ianchulev T, Hoffer K, Yoo S, et al. Intraoperative refractive biometry for predicting intraocular lens power calculation after prior myopic refractive surgery. *Ophthalmology.* 2014;121(1):57-60.2.
5. U.S. Food and Drug Administration. Summary of Safety and Effectiveness Data P020050S004b, Wavefront Optimized® and Wavefront Guided for Myopia Plus Astigmatism. http://www.accessdata.fda.gov/cdrh_docs/pdf2/p020050s004b.pdf. Accessed August, 30 2015.
6. Hoffman, PC, Auel S, Hütz WW. Results of higher power toric intraocular lens implantation. *J Cataract Refract Surg.* 2011;37(8):1411-1418.
7. Aristodemou P, Knox Cartwright NE, Sparrow JM, Johnston RL. Intraocular lens formula constant optimization and partial coherence interferometry biometry: Refractive outcomes in 8108 eyes after cataract surgery. *J Cataract Refract Surg.* 2011 Jan;37(1):50-62.

Empowered decision-making
to help optimize ATIOL outcomes¹

Are you delivering the cataract refractive outcomes your patients expect?

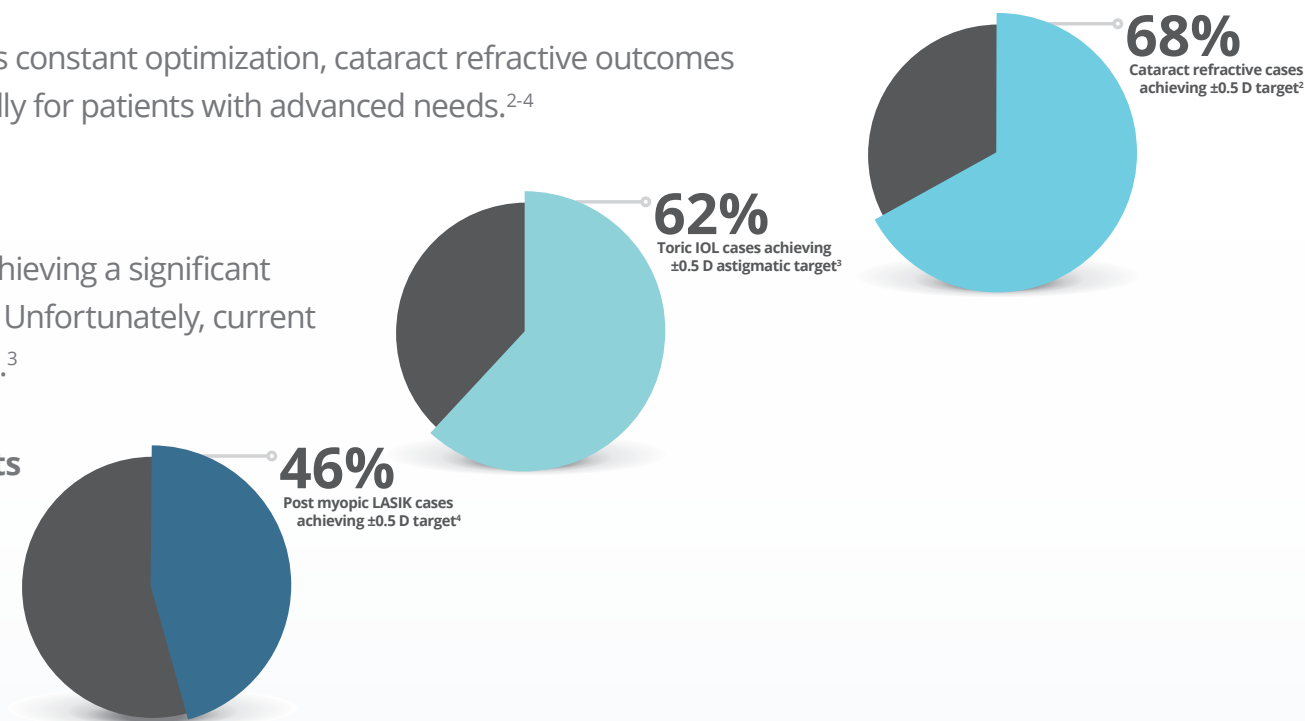
Even with advanced measurement techniques and lens constant optimization, cataract refractive outcomes today still have a lot of room for improvement, especially for patients with advanced needs.²⁻⁴

Unmet potential for astigmatic patients

Astigmatic cataract patients are ideal candidates for achieving a significant improvement in visual quality and acuity after surgery. Unfortunately, current outcomes frequently fall short of fulfilling expectations.³

Unmet expectations for prior myopic LASIK patients


Prior LASIK patients often achieve expected outcomes,⁴ yet clinical data suggest a significant gap with cataract surgery.⁵



 Microincision phaco with toric IOLs can significantly reduce corneal astigmatism and improve visual outcomes — but thorough planning and precise execution are necessary.^{3,6}

Do you have all of the data to make informed surgical decisions?

Are these challenges preventing you from achieving the thorough planning and execution needed to reach your best possible outcomes?

 Pre-op planning for each patient is complex and difficult to access when you are in the OR.

 You are not sure of the outcomes until days or weeks after the procedure.

 It is extremely time-consuming to track and analyze your surgical patterns in an effort to optimize your outcomes.

Introducing the Alcon Cataract Refractive Diagnostics Portfolio

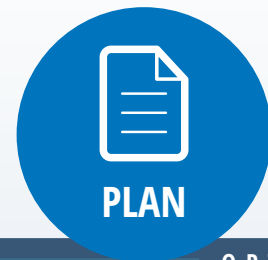
Designed to improve your ability to more accurately predict and enhance your ATIOL outcomes

- Enables empowered decision-making throughout your procedures
- Provides a streamlined surgical process with imaging, planning and guidance
- Gives you real-time refractive data verification in the OR, when it matters most
- Collects, analyzes and reports data to help you enhance your cataract refractive outcomes

Verion™
Image Guided System



IMAGE



PLAN



GUIDE



VERIFY

OPTIMIZE

ORA™ System
with VeriEye+™



The Verion™ Image Guided System

Helps deliver assurance in your surgical process

The Verion™ Image Guided System provides a complete surgical process that carries your procedural plan from the clinic to the OR.

- Advanced patient diagnostics in a complete system
- Simplified surgical planning
- Surgical overlays for guidance and precision

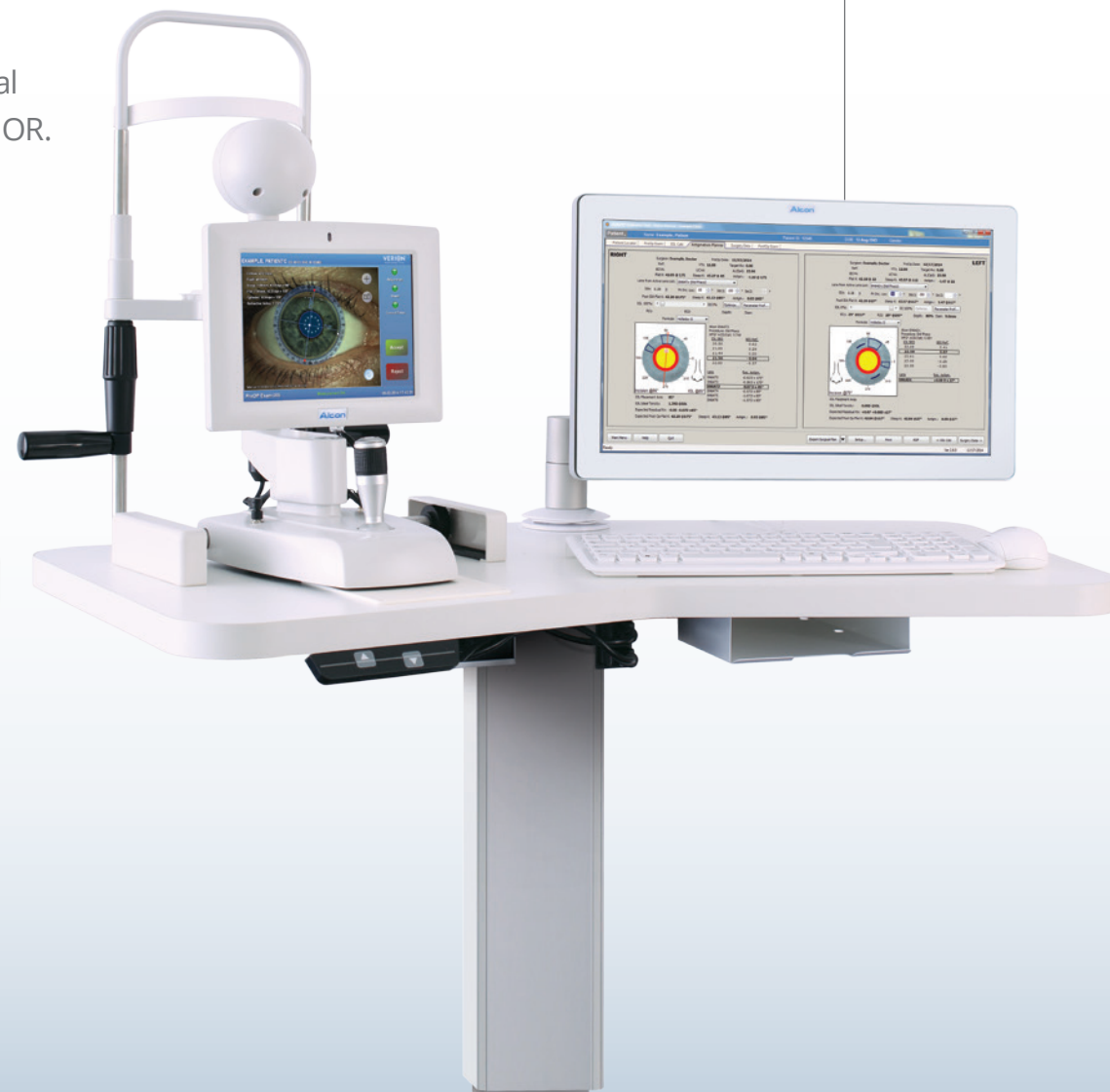
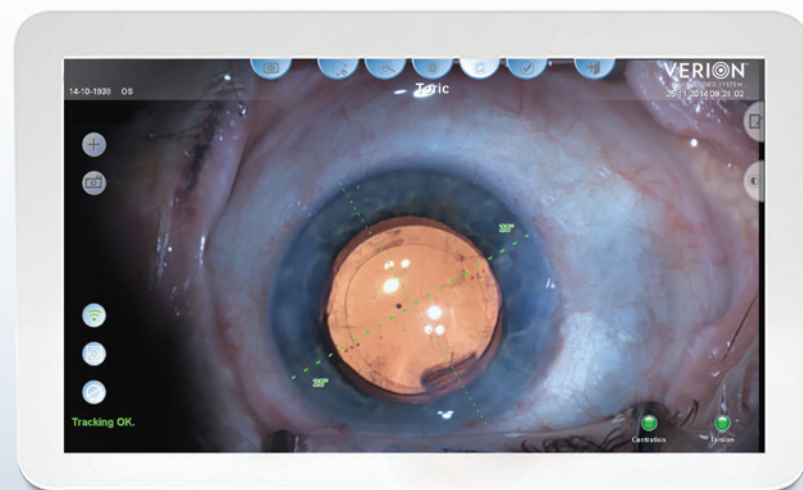
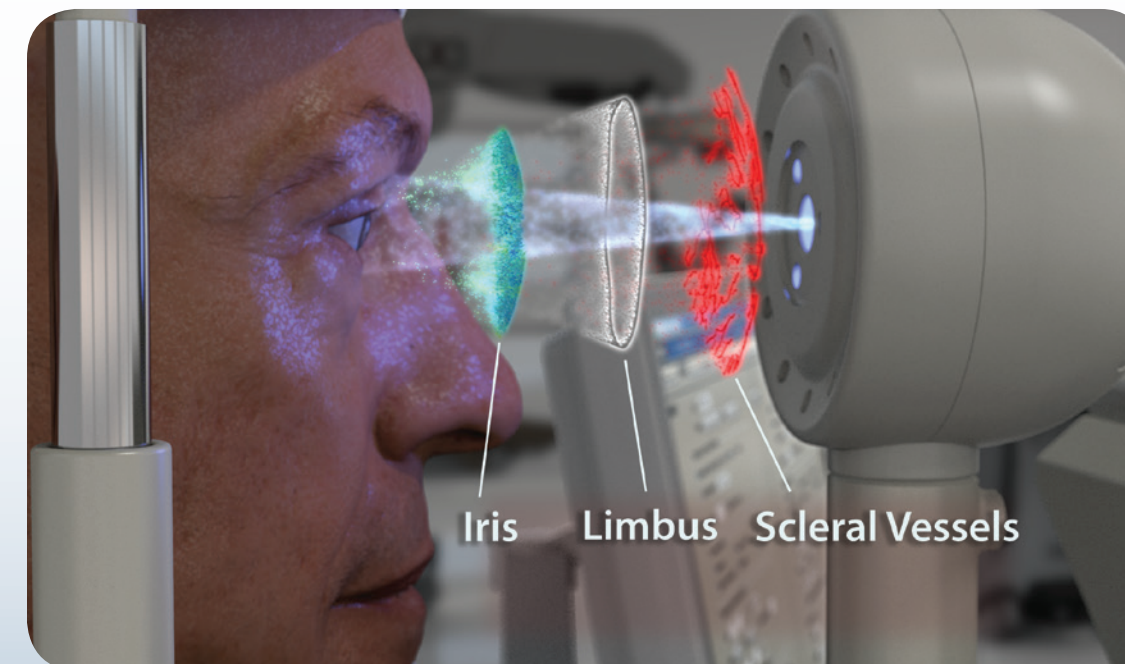


Image: The Verion™ Reference Unit

Captures a high-resolution reference image

- Provides a landmark-based reference for all incisions, capsulotomy and IOL positioning
- Enables registration and tracking of the eye throughout the procedure
- Sets the stage for comprehensive astigmatism management planning
- Features data transfer via USB or your wireless LAN



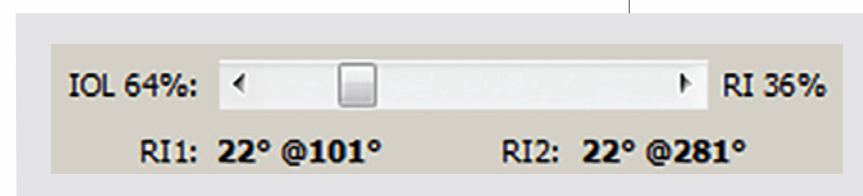
Key diagnostic measurements are automatically exported into the surgical planner.

Plan: The Verion™ Reference Unit

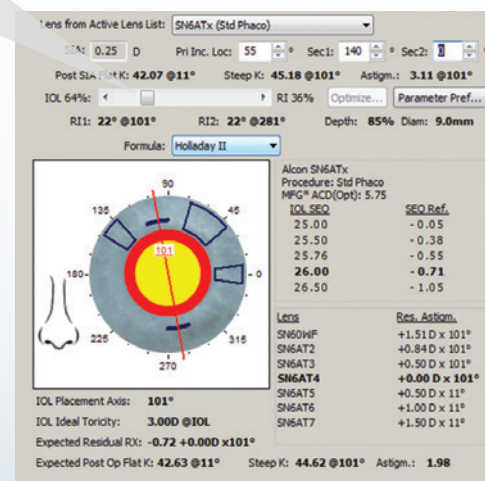


Provides comprehensive, automated procedural planning

- Seamless patient data flow helps to reduce error and increase efficiency
- Calculations for toric lens power, recommended incision locations and surgically induced astigmatism provide simplified astigmatism management
- Enables optimization of lens constant and SIA management

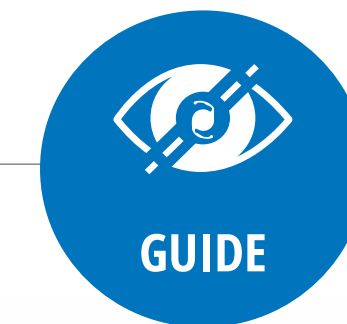


The astigmatism slider bar allows you to select your preferred balance of correction between IOL power and arcuate incisions in a single calculation.



Recommended IOL model is automatically transferred to the astigmatism planner tab.

Guide: Verion™ Digital Marker for the LenSx® Laser



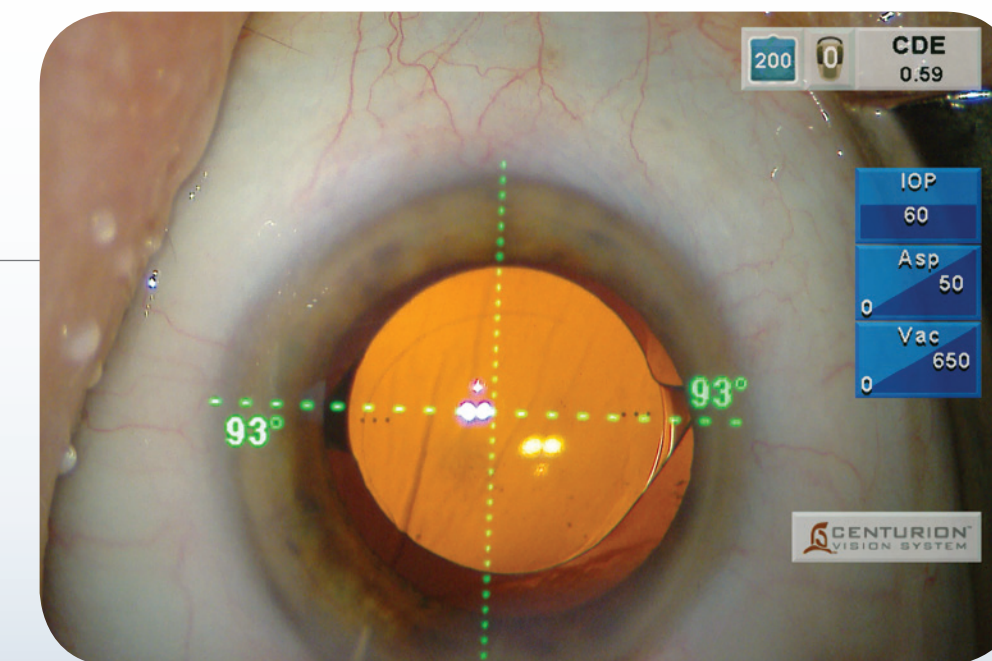
Precise targeting for better performance

- Transfers patient information and planning data seamlessly to the LenSx® Laser
- Pre-positions the surgical incision overlays
- Accounts for cyclorotation

Verion™ Digital Marker for microscopes

Brings your surgical plan into the OR to improve accuracy, consistency and control

- Auto-populates and displays your surgical plan in your ocular
- Real-time registration, tracking and cyclorotation correction for ensured accuracy
- Instant access to surgical overlays at every step



Toric alignment guide for lens positioning eliminates need for less precise manual toric marking⁴

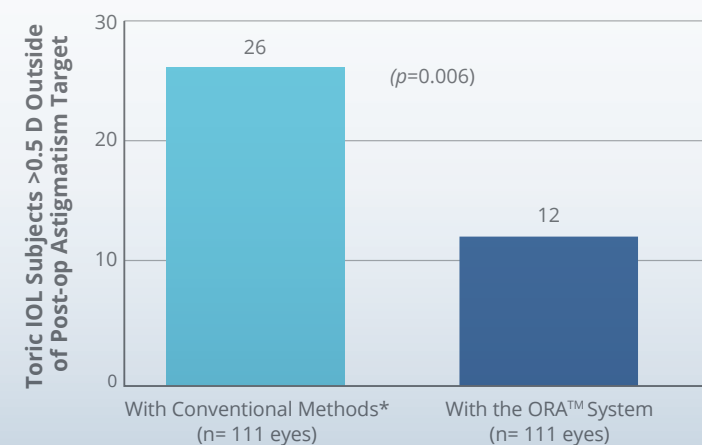
Get real-time data verification with the ORA™ System with VerifEye+™

The ORA™ System with VerifEye+™ Technology helps deliver better outcomes for your astigmatic and post-LASIK patients.

- Provides IOL sphere, cylinder and alignment suggestions
- Improved astigmatic outcomes by accounting for posterior corneal contribution¹
- Significantly decrease prediction error by enabling a more accurate lens selection²
- Accurate data tracking of each case to help you optimize outcomes over time

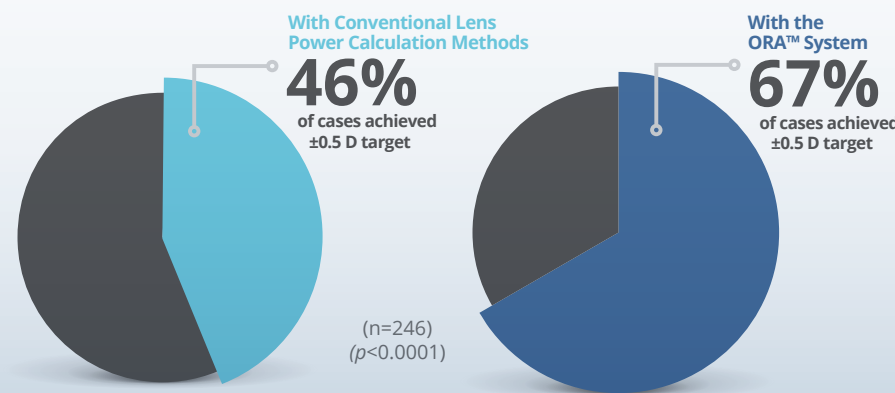


Significantly reduced refractive error for toric IOL subjects¹



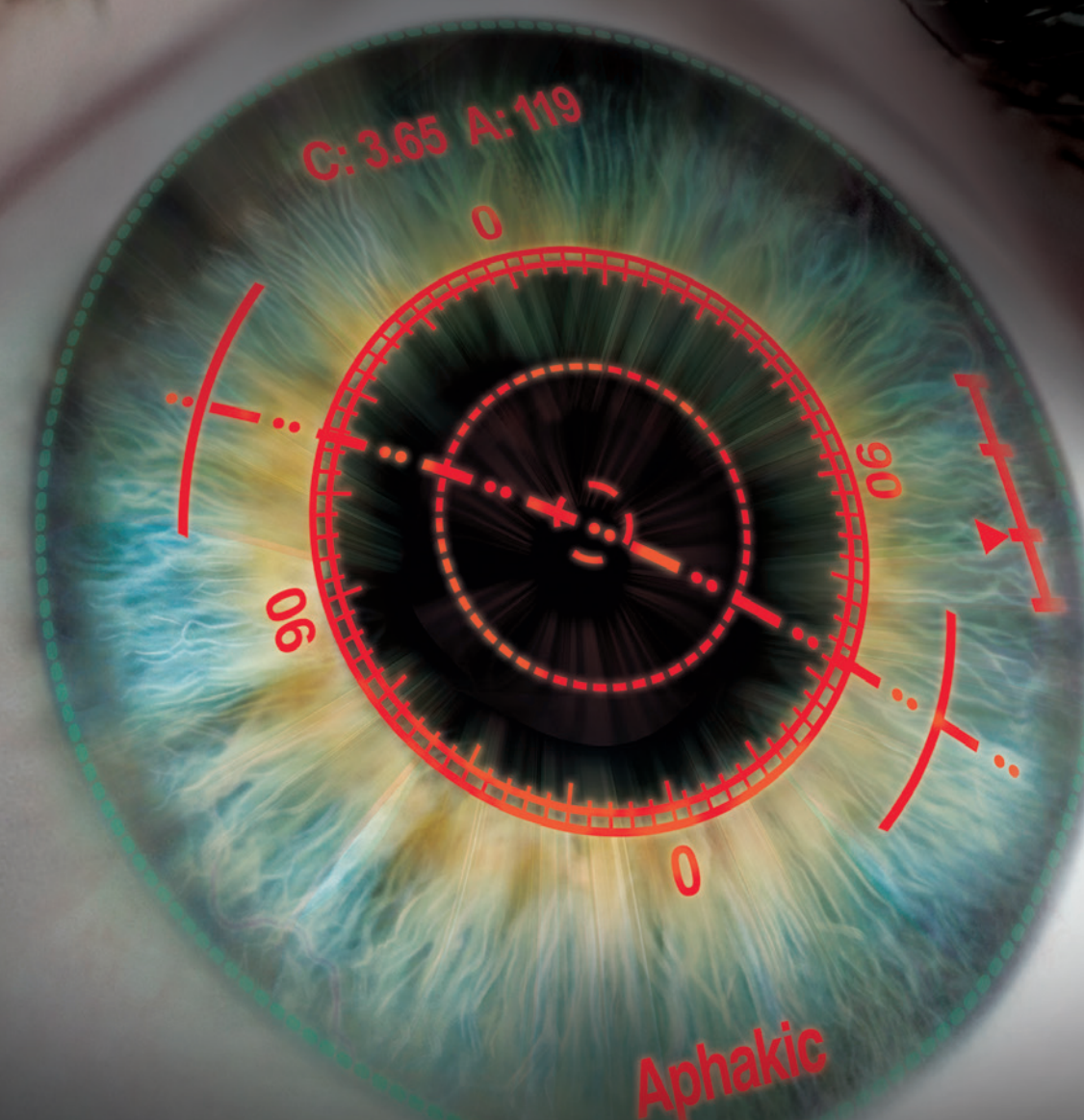
53.8% fewer cases fell outside their ± 0.5 D astigmatism target with the ORA™ System.¹

Significantly improved refractive predictability for prior myopic LASIK cases⁴



45.6% more cases achieved their ± 0.5 D target with the ORA™ System.

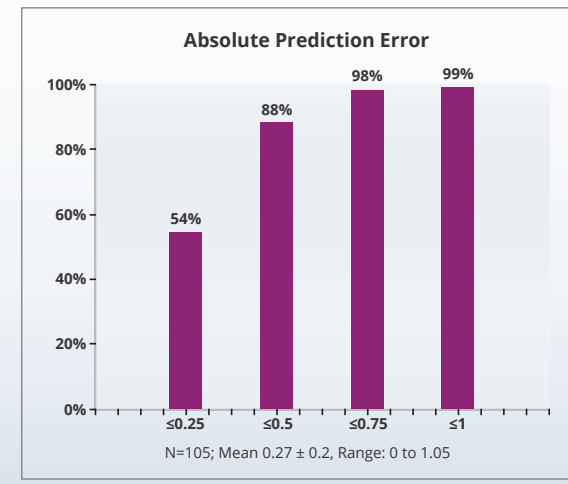
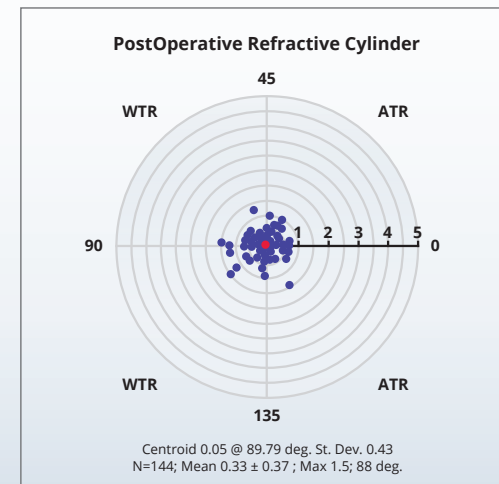
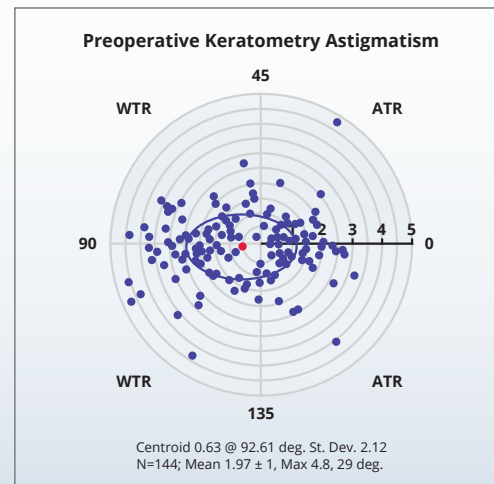
*Compared to conventional (preoperative) calculation of cylinder power and axis



Optimize: Improve your cataract refractive outcomes patient by patient

The data analysis you need to deliver evidence-based outcomes with the Verion™ Image Guided System and ORA™ AnalyzOR

- Optimizes surgical variables based on trending real-world outcomes
- Customizes personal coefficients based on your individual post-op data
- Dynamic optimization of A-constants and SIA management helps result in more accurate lens power calculation
- Robust reporting provides quick, effective visibility of outcomes analysis




Sample report from AnalyzOR™ Technology for illustrative purposes.

Gain more confidence in your ATIOL outcomes through empowered decision-making

VERION™ IMAGE GUIDED SYSTEM	ORA™ SYSTEM WITH VERIFYE+™ TECHNOLOGY
Helps deliver assurance in your surgical process <ul style="list-style-type: none"> • Carries your surgical plan data into the OR • Provides landmark-based image guidance • Displays real-time overlays for accuracy at every step 	Helps deliver assurance in the OR <ul style="list-style-type: none"> • Provides spherical power, cylinder and axis recommendations for IOLs • Accounts for key unexpected variables • Helps reduce incidence of unintended residual postoperative astigmatism

Better together

Use the Verion™ Image Guided System and ORA™ System together to optimize your results. Surgical planning with the Verion™ Image Guided System is the foundation of your procedure. Pairing it with the intraoperative aberrometry of the ORA™ System helps account for changing conditions and unexpected variables not detected in pre-op analysis.

 **Optimizing IOL constants substantially improves cataract refractive outcomes.⁷**

Complete integration from start to finish

The Verion™ Image Guided System and the ORA™ System are part of The Cataract Refractive Suite by Alcon, which brings together advanced technologies for every phase of the cataract procedure.

- Streamlines surgical planning by seamless transfer of data
- Identifies and helps address potential sources of refractive error
- Helps surgeons more consistently hit their cataract refractive targets^{1,6}
- Collects, organizes and analyzes surgical data to help optimize cataract refractive outcomes over time



CATARACT REFRACTIVE
Diagnostics