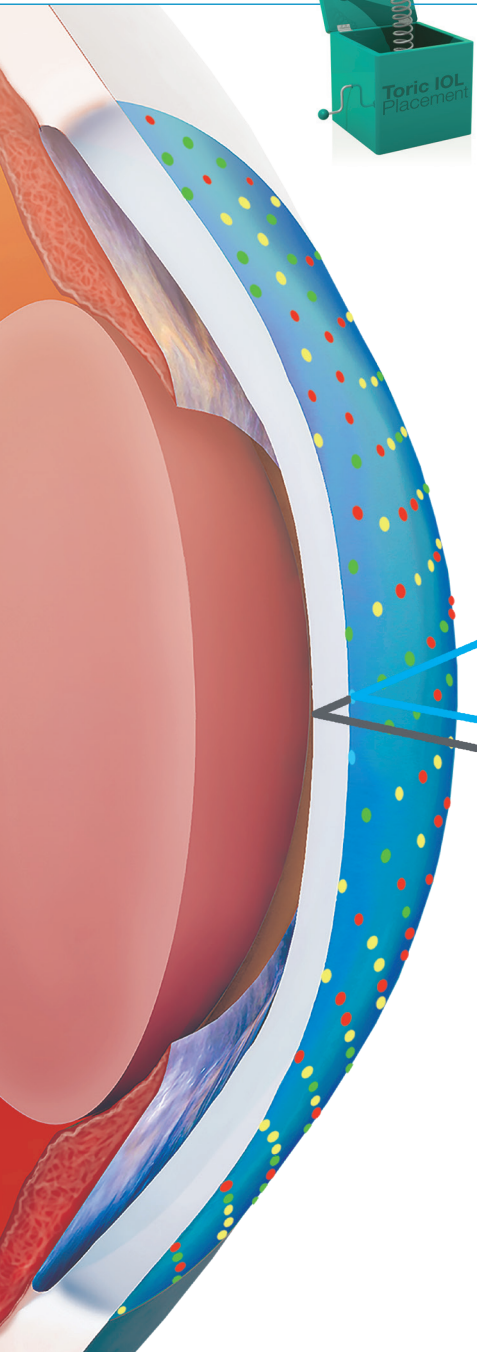


Tired of “POST-OP SURPRISES”?

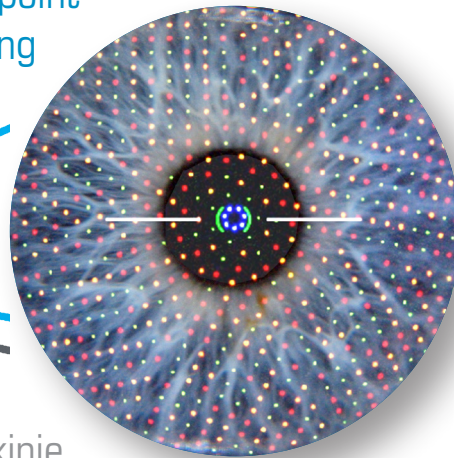


Put an end to unexpected

# REFRACTIVE OUTCOMES



Multi colored LED  
point-to-point  
ray tracing



2nd Purkinje  
point-to-point  
ray tracing

## When it comes to managing astigmatism, posterior curvature matters

- In Koch et al., anterior corneal measurements underestimated Total Corneal Astigmatism (TCA) by 0.22 D @ 180° and exceeded 0.50 D in 5% of eyes<sup>1</sup>
- Selecting toric IOLs based on anterior corneal measurements alone could lead to overcorrection in eyes that have WTR astigmatism and undercorrection in eyes that have ATR astigmatism<sup>1</sup>

## TOTAL CORNEAL ASTIGMATISM (TCA)

Combines the contributions of the anterior and posterior corneal surfaces and accounts for the effect of corneal thickness



Cassini provides  
**DATA YOU CAN TRUST**

**For every degree of misalignment, about 3% of the toric IOL cylinder power is lost. Cassini provides the axis  $\pm 3^{\circ 2}$**



Don't be caught off guard by the  
**POSTERIOR CORNEAL ASTIGMATISM**

**Cassini's pre-op analysis takes the mystery out of managing astigmatism**

- **Identify more patients eligible** for astigmatism correction and increase your premium procedure volume
- **Select the optimal toric IOL power** with confidence based on Cassini's highly accurate TCA measurement
- **Place toric IOLs or arcuate incisions for optimal effect** with Cassini axis measurement  $\pm 3^{\circ 2}$





*“Cassini TCA helped me select the right IOL in view of my patient’s posterior corneal astigmatism.”*

– Cynthia Matossian, MD  
Matossian Eye Associates, Doylestown, PA, USA

## SPECIFICATIONS

### True Axis

- Multicolor LED imaging combined with 2nd Purkinje imaging technology
- Anterior Axis repeatability within 3 degrees<sup>2</sup>

### True Magnitude

- Diopter range 4.00D – 171.00D (Anterior)
- Display K-values per zone 3/5/7/9mm (Anterior)
- Keratometric indices display in D (diopters) or mm (millimeters)

### True Capture

- Auto Capture with joystick positioning
- Measurement Quality Factor parameter
- Auto pupil detection
- Topographic indices - E (shape factor), e (eccentricity), Q (asphericity), p (form factor)
- Keratoconus indices - SAI (Surface Asymmetry Index), SRI (Surface Regularity Index)

### True Accuracy

- Submicron accuracy due to color LED triangulation technology <0.8µm (Anterior)

### True Technology

- External Ocular Photography
- (Anterior)Topographic maps - Axial, Refractive, Tangential, Elevation, Corneal Aberrations, Recorded color HD external ocular photography
- Multiple color spectrum options
- Incorporated patient management program
- USB, Direct print, PDF, JPG, 3rd party output connectivity
- Mesopic and photopic pupillometry

i-Optics International

Mauritskade 35

2514 HD The Hague

The Netherlands

Phone: +31 70 3993112

Fax: +31 70 4155215

info@i-optics.com

i-Optics USA

1 Wall Street, 6th Floor

Burlington, MA 01803

USA

Phone: 888-660-6965

info@i-optics.com

[www.i-optics.com](http://www.i-optics.com)



#### References

1. Koch DD, et al. Contribution of posterior corneal astigmatism to Total Corneal Astigmatism. *J Cataract Refract Surg.* 2012;38:2080-2087.
2. A. John Kanellopoulos, MD. Clinical Professor of Ophthalmology New York University Medicla School.