

TrueVision[®]
3 D • S U R G I C A L

Refractive Cataract Toolset[®]

3D Computer-Aided Visualization and
Guidance for Cataract Surgery

3D VISUALIZATION AND GUIDANCE SYSTEM

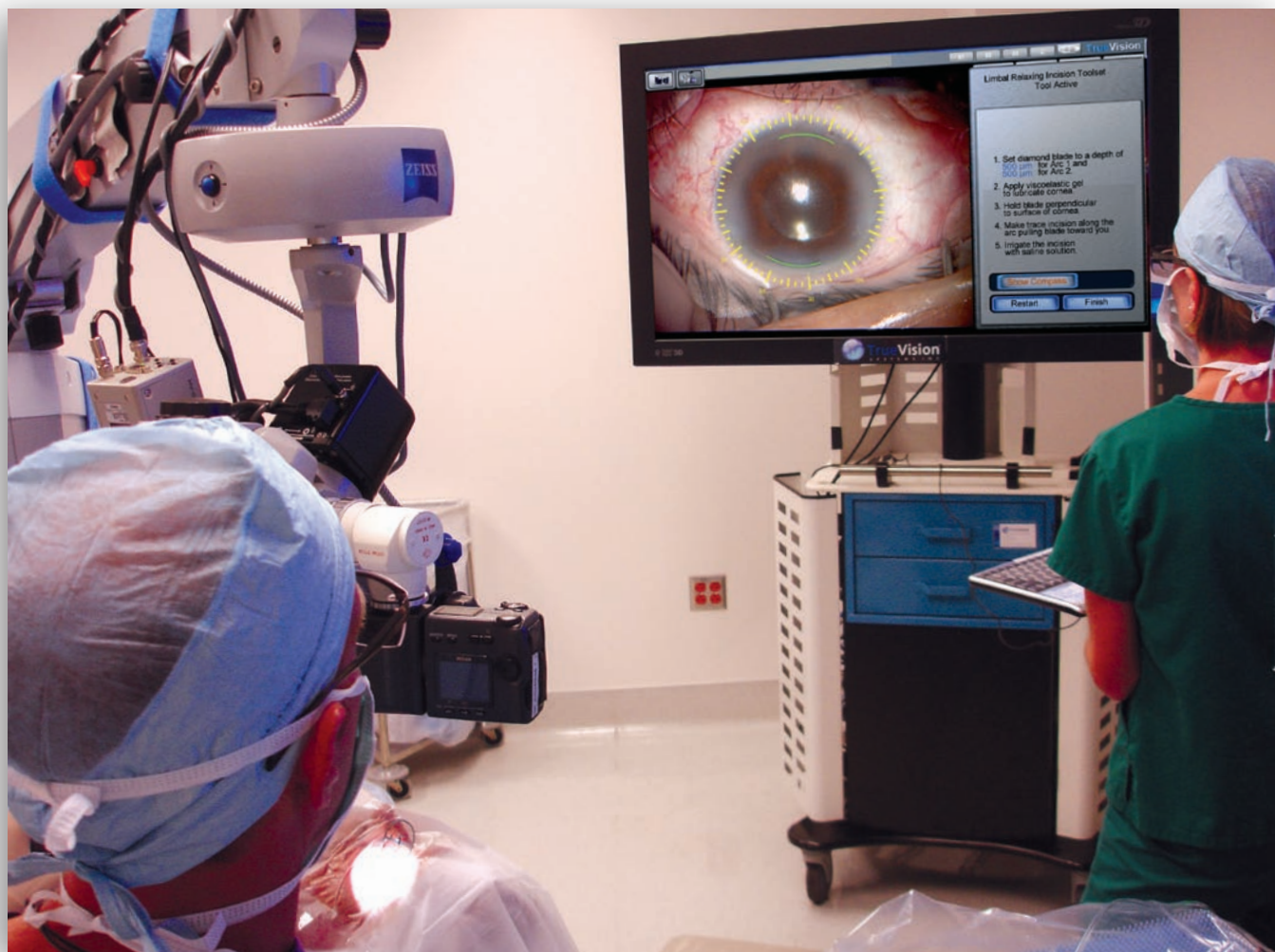


“The Refractive Cataract Toolset enables me to perform more precise surgery. By using virtual guidance on the 3D live image, I can see precise axis, alignment and centration.”

*Mark Packer, MD, FACS, CPI, Clinical Associate Professor,
Oregon Health & Science University*

The Refractive Cataract Toolset®

is a 3D computer-aided guidance application
for refractive cataract surgery.



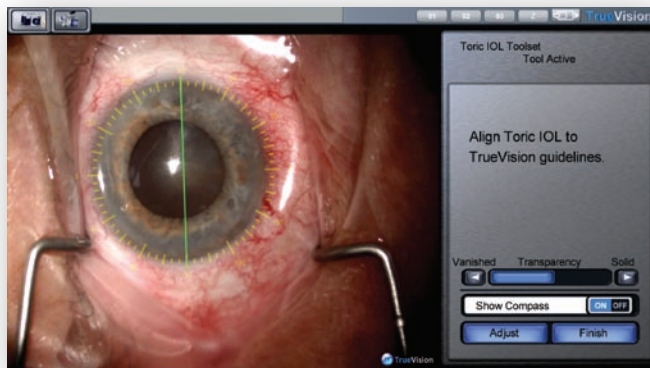
Pre-operative clinical data and 3D images from the slit lamp are processed by TrueVision® RC Toolset™ software to generate toric IOL alignment, limbal relaxing incision, and capsulorhexis guidance templates during surgery.

The U.S. Food and Drug Administration (FDA) granted 510(k) clearance to market the TrueVision® 3D Visualization and Guidance System.

TrueVision® Refractive Cataract Toolset®

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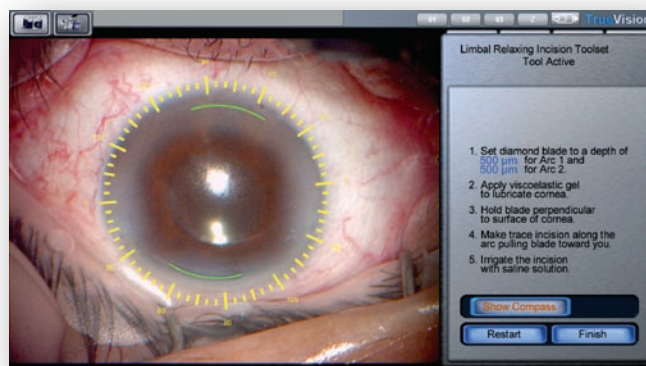
Toric IOL Alignment Templates



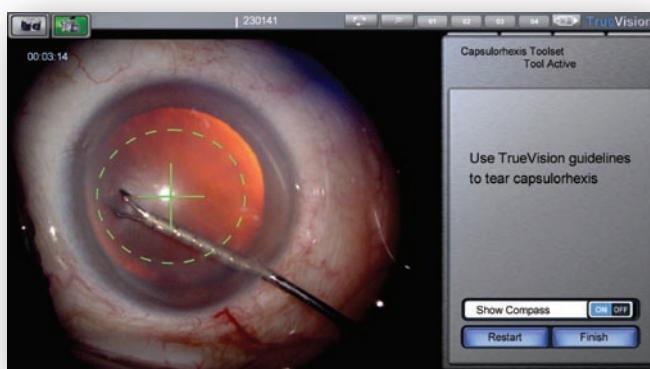
- Precise rotational alignment templates
- SIA incorporation
- Cyclorotation compensation
- Compass for angular measurements

Limbal Relaxing Incision Templates

- Digitally precise incision templates
- SIA incorporation
- Cyclorotation compensation
- Customizable nomograms
- Automated vector calculations



Capsulorhexis Templates



- Precise sizing and positioning templates
- Real-time customization by surgeons
- On-screen templates
- Axis marker on the pre-operative photopic pupil center for IOL alignment

RC Toolset™ software

manages the flow of data from the preoperative image capture at the slit lamp to the live image registration and display of overlays during surgery.

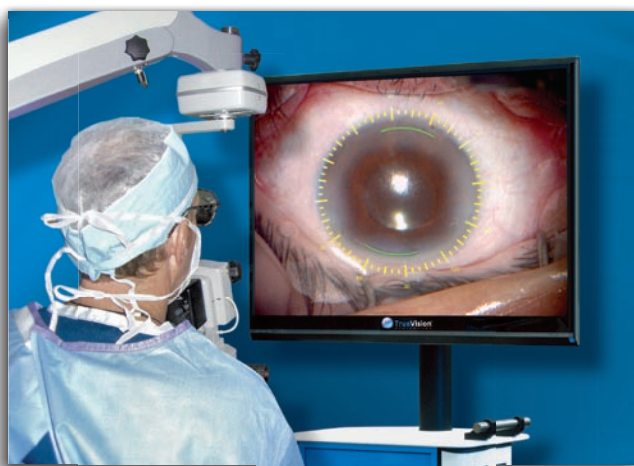
1 3D Image Capture

- Preoperative image and data capture at the slit lamp



2 3D Registration

- Image upload and registration to live view using TrueVision® 3D Visualization and Guidance System



3 3D Surgery

- Incision templates and alignment guidelines are superimposed over the live 3D view using image registration and real-time eye tracking





“The Refractive Cataract Toolset uniquely provides me with computer-aided guidance tools for use with my patients during all types of cataract and premium IOL surgery. This is an exciting step with the integration of key clinical parameters into the heads up surgery view, which I have been excited to see come available after performing several thousand cases using 3D visualization.”

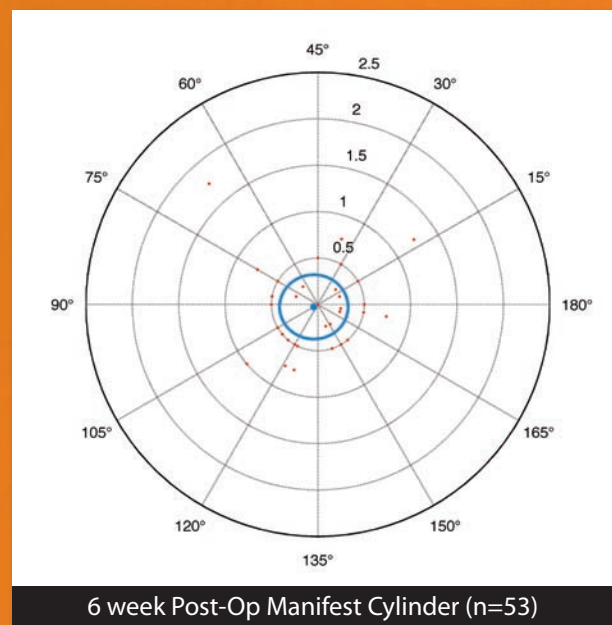
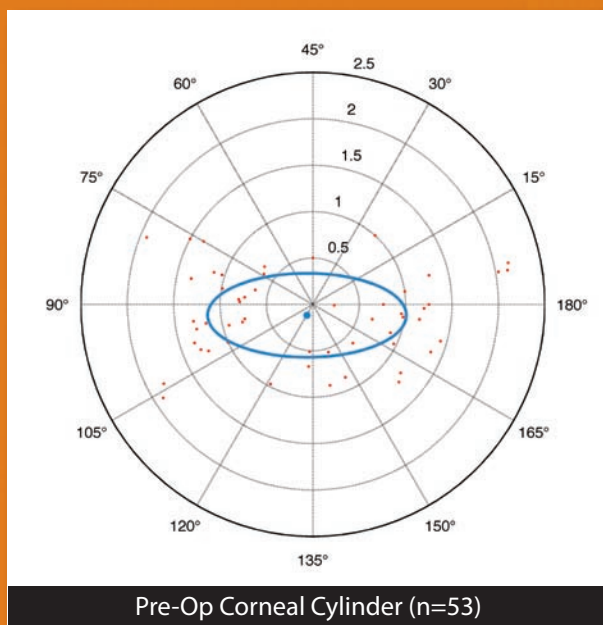
*Robert J. Weinstock, MD
The Eye Institute of West Florida
Largo, FL*

Refractive Cataract Toolset® Prospective Clinical Study*

- 4 Investigational sites
- No device-related surgical complications were observed
- LRI Arm (n = 53)
- Capsulorhexis Arm (n = 22)

At 6 weeks, 85% of eyes achieved residual manifest cylinder $\leq 0.5D$

100% of eyes achieved goal of 6mm or less capsulorhexis diameter



Each ring = 0.5 D step

	Pre-op.
Centroid (D)	0.133
Mean Cylinder (D)	1.090
Standard Deviation (D)	0.430
% Eyes $\leq 0.50 D$	4%

	Post-op.
Centroid (D)	0.051
Mean Cylinder (D)	0.368
Standard Deviation (D)	0.356
% Eyes $\leq 0.50 D$	85%

*Abstract: Packer, AAO/ISRS 2010

THE LEADER IN 3D VISUALIZATION & GUIDANCE



TrueVision[®]

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TrueVision[®] combines 3D visualization and guidance software focused on improving accuracy, efficiency, and outcomes for both surgeons and patients.

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