

# VERION™

IMAGE GUIDED SYSTEM



## Understanding the Verion Image Guided System

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## Financial Disclosure

The author has no financial or proprietary interest  
in any material or method mentioned.

## Product Overview

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- The VERION™ Image Guided System is an entirely new way of looking at cataract refractive surgery.
- Instead of checking for refractive error at the end of the procedure, the VERION™ Image Guided System helps **minimize potential sources of error** during each step of the surgical process.



## Components

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The Verion Image Guided System consists of:



**The Reference Unit**



**The Digital Marker**

# The Reference Unit

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1. Measurement Module
2. Vision Planner

## Measurement Module

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The VERION™ Reference Unit is a preoperative measurement device that captures and utilizes a **high-resolution reference image** of a patient's eye in order to determine:

- Radii & corneal curvature of steep and flat axes
- Limbal position and diameter
- Pupil position and diameter
- Corneal reflex position
- Scleral vessels
- Iris features



## Measurement Module

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Measurement data is then automatically imported into the planning software.

## Vision Planner

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The Vision Planner supports the surgeon in **creating a surgical plan** for the cataract surgery.

## Vision Planner

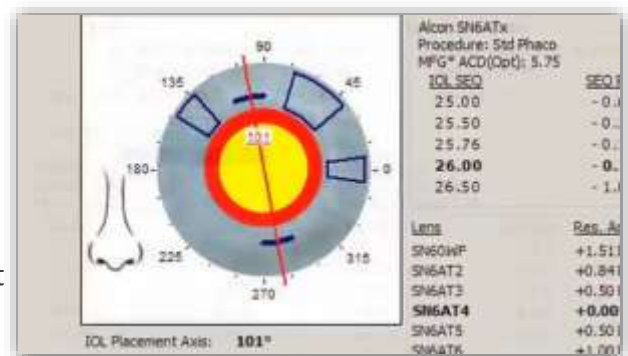
The planning steps include:

- ✓ Number & location of incisions
- ✓ IOL calculation using existing and known formula



## Vision Planner

- The Vision Planner also provides **comprehensive astigmatism management**.
- Surgeons can now determine optimum incision locations to **individualize surgically induced astigmatism** and toric lens powers at the same time.





## From Reference Unit To Digital Marker

Exporting the HD reference image, preoperative measurement data and the surgical plans for use with the digital marker and other compatible devices through the use of a USB memory stick.



# The Digital Marker

- The Digital Marker allows surgeons to position all incisions and alignment in real time, while accounting for the variable impact of cyclorotation.
- It can be used with
  - ✓ LenSx (Digital Marker L)
  - ✓ Most surgical microscopes (Digital Marker M)

**VERION Digital Marker** Alcon

Date	Name	Eye	Birth
		OS	05-07-1955
01-07-2013	J.D.	OS	09-13-1984
01-07-2013	L.R.	OD	25-03-1954

Planning Information Table				
Incisions	Position	Width		
Primary	24°	2.4mm		
Secondary1	315°	1mm		
Secondary2	N/A	N/A		

ARC	% Post Depth	Diameter	Position	Angle
1st ARC			N/A	N/A
2nd ARC	N/A	N/A	N/A	N/A

Arcuate Centration:  ⬅️ ⬆️ ⬇️ ⬇️ ⬆️ ⬅️

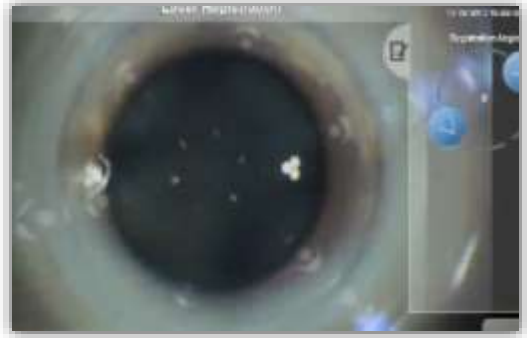
Capillary Centration:  ⬅️ ⬆️ ⬇️ ⬇️ ⬆️ ⬅️

Cancel Upload Patient Data

## The Digital Marker L

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- With the LenSx<sup>®</sup>, the VERION™ Digital Marker facilitates streamlined data entry as well as pre-positioning of the surgical incision overlays using the reference image.
- The LenSx<sup>®</sup> uses auto-focus and image-focus tracking to dock and align the patient under the laser and to position the corneal incision, capsulotomy and fragmentation patterns.



## The Digital Marker M

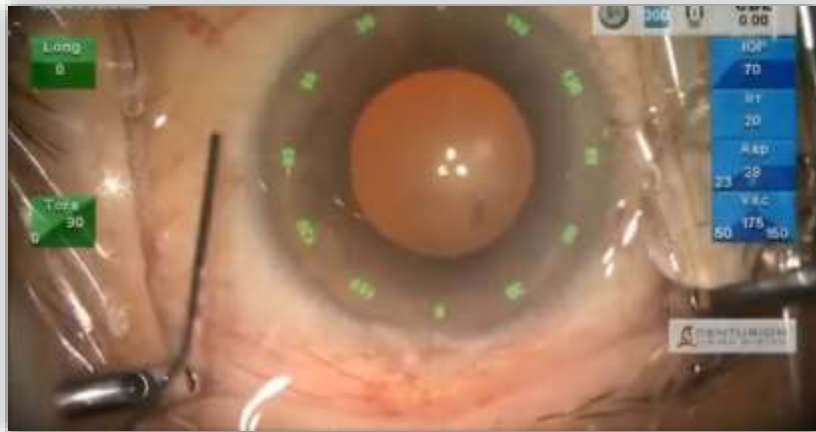
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- Real time tracking overlays of the optics of the surgical microscope.
- These computer generated overlays offer a new measure of consistency and control for every step of the procedure including:
  - ✓ Incision guide
  - ✓ Capsulorhexis guide
  - ✓ Centration guide for MFIOL positioning
  - ✓ Toric alignment guide
  - ✓ Elimination of the need for manual toric marking
- It can be overlaid on a computer screen or the physician's microscope view.



## The Digital Marker M

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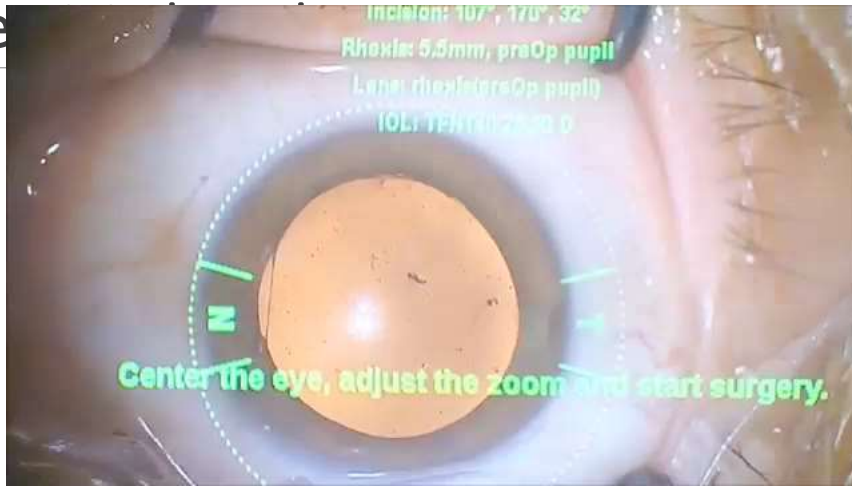


## The Digital Marker M

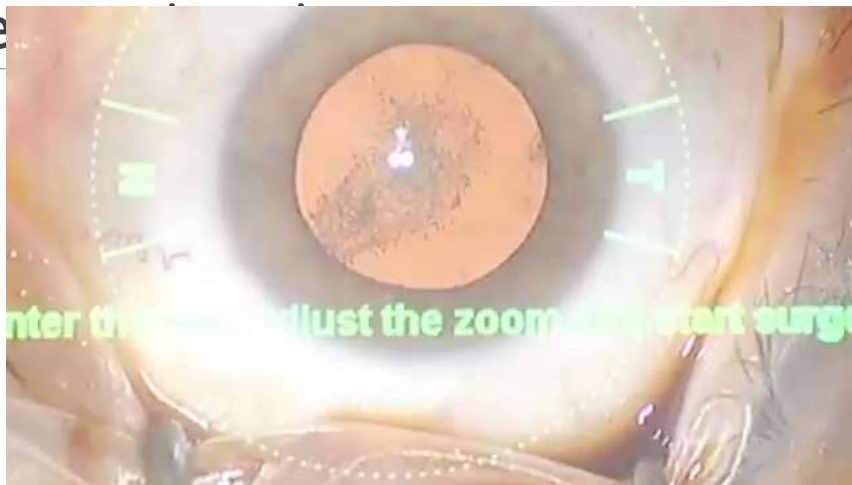
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## Take Home Message

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- With the Verion Image Guided System, surgeons can now consistently deliver a new era of refractive cataract precision.
- This revolutionary technology creates a detailed map of the eye's unique features before cataract surgery.
- The Verion is designed for improved planning, accuracy, and efficiency throughout the entire cataract refractive procedure.



**Thank you**