sMap3D SPECS + FEATURES

HIGHLIGHTS
- Fluorescence based structured light topographer with more than 22mm range and 360° scleral coverage
- Under the eyelid scleral measurements
- Over 1 million measurement points with a 10 micron precision
- Integrated software for fitting and customizing Europa Scleral lenses with direct ordering capabilities
- Unbeatable Price

FEATURED MAPS
- Sagittal Elevation
- Texture-mapped image elevation
- Lens Elevation
- Mean curvature
- Simulated fluorescein pattern
- Corneal and Scleral Elevation (Best-fit sphere)
- Polar display
- Full 3D display

TOOLS
- Principle toricity display at varying diameters
- Distance measurement
- Mean sagittal height at varying diameters
- Lens and sagittal height cross-section display
- Customizable Data tips
- Customizable color scales
- Brightness and contrast adjustments
- Customizable for multiple users
- Online storage

CONTACT LENS FITTING
- Scleral Lenses
  - Normal Corneas
  - Irregular Corneas
- Customized Soft Lenses
- Customized Back Surfaces

HVID/VVID MEASUREMENT

COVERAGE
- Single: up to 17mm diameter
- Stitched: up to 22mm diameter

FIELD OF VIEW
- Single: H22mm x V17mm
- Stitched: H22mm x V22mm

MEASUREMENT POINTS
- 32,400

ANALYZED POINTS
- 1,000,000+

SHIPPING DIMENSIONS/WEIGHT
- Head: 14” x 14” x 12”
  (36cm x 36cm x 30cm)
  15lb. (6.8kg)
- Manipulator: 14” x 13.5” x 7.5”
  (36cm x 34cm x 19 cm)
  12lb. (5.44kg)
- Chinrest: 21” x 10.5” x 3”
  (53cm x 27cm x 8cm)
  5lb. (2.26kg)
- Base: 20” x 14” x 3”
  (51cm x 36cm x 8cm)
  7lb. (3.2kg)

FOOTPRINT
- Width: 9.5” x 13.5” x 6”
  (24cm x 34cm x 15cm)
- Depth: 17” (43cm)
- Height: 19”-21” (48cm - 53cm)
  [with head fully lowered and fully raised]

WEIGHT
- Est. 11lb. (5kg) (head only)

POWER REQUIREMENTS
- 5V DC 3A

SUPPLIED PC
- HP Envy 15” i7
  8GB RAM

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a licensed practitioner.
The future of custom scleral contact lens fitting is here! I have had extraordinary success in fitting the Jupiter and Europa scleral lenses for years in my specialty contact lens practice. The sMap3D system has had a measurable impact on my practice. This technology has allowed me to reduce my remake percentage, chair time, and fit patients in lenses who have previously been unable to wear contact lenses of any type. It has helped me understand patient complaints with fits that seemed good using conventional methods. Using this technology has not only shown that most patients have a toric sclera, but also that it is possible to improve comfort, wear time and clouding by compensating for it. In any specialty contact lens practice, efficiency and patient satisfaction have a profound impact on success. The sMap3D combines advanced precision technology with an outstanding lens design. It is rare I am this excited about a technological advancement. I can’t deny the results. Well done!”

Randy Charrier, O.D., F.A.A.O.
Family Vision Solutions
The sMap3D topographer allows us to measure scleral toricity for the first time. This has propelled my evaluation of scleral lenses forward by having the ability to more precisely align scleral haptics with the tissue. This results in better lens centration and corneal contouring which means better vision and less induced astigmatism."

Jeffrey Sonsino, O.D., F.A.A.O.
Optique Nashville

The sMap3D has revolutionized my scleral lens practice. Studies now show that most scleras are toric. The sMap3D allows me to fit customized back surface toric scleral lenses to fit each individual eye. Improved haptic fitting using back surface toricity increases patient comfort, satisfaction, and reduces the potential for reservoir debris. I am now able to use back surface toricity to stabilize front surface toric scleral lenses for patients who have residual astigmatism. Stabilized front surface toric lenses using back surface toricity are significantly more comfortable than using slab-off prism stabilization, which some patients find uncomfortable secondary to increased edge thickness.

The sMap3D allows me to quickly know the base curve needed to achieve a preset amount of corneal vault and the diameter needed to optimize limbal clearance. In my practice, fitting Europa sclerals with diagnostic lenses, which is time consuming and involves estimating parameters, has been replaced with the sMap3D."

Greg DeNaeyer, O.D., F.A.A.O.
Arena Eye Surgeons
Use of toric peripheral haptics in scleral lenses has been reported to improve comfort, reduce or eliminate edge lift, decrease debris build-up under the lens and rotationally stabilize the lens. With the sMap3D, Visionary Optics can now tell the scleral lens fitter if and how much peripheral haptic toricity is needed to accurately design customized toric scleral lenses.

In this illustration, the image on the left is the scleral elevation map utilizing only data from straight ahead gaze. Very little of the sclera is measured superiorly and inferiorly despite retraction of the lids. Insufficient scleral data is available to accurately measure scleral toricity. The image on the right is the scleral elevation map which shows the stitched ocular image containing data from up, straight ahead, and down gaze. The scleral toricity is measured to be 2.4D

In this illustration, these images demonstrate the wide variation in scleral toricity measured in scleral elevation maps in terms of orientation.

In this illustration, the image on the left shows no scleral toricity present where the image on the right shows 6.5D of scleral toricity. These images demonstrate the wide variation in scleral toricity measured in scleral elevation maps in terms of power.

Accurate mapping and a complete range of customization options let you tailor the lens to fit each eye. Seamless integration with Visionary Optics Europa Scleral lens designed to minimize refits by prescribing lenses directly from surface measurements. View virtual fits and customize lens parameters with the goal of achieving optimal fits for every eye in one simple platform.

The sMapPro software offers a Consult option. When utilizing this option, you simply need to obtain your three images and provide the Fitting Lens information and the patient's over-refraction – Visionary Optics will do the rest! – providing you with final lens parameters and supporting sMap3D data and imaging.