

optovue solix

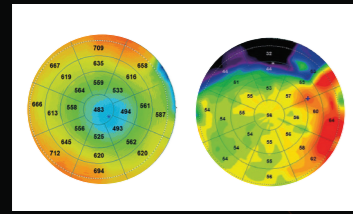
See front & back
and never go back



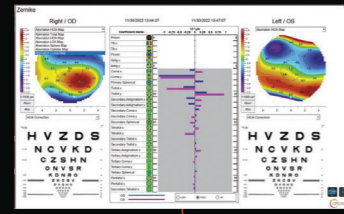

VISIONIX
INNOVATION TO UNLOCK YOUR POTENTIAL

See front & back and never go back

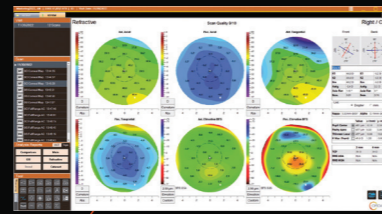
Pachymetry, Stroma and Epithelium maps



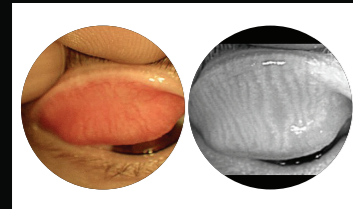
Corneal aberration driven IOL selection



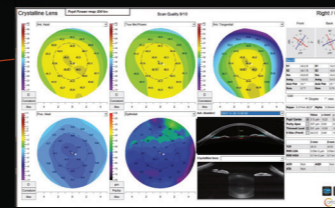
Corneal topography



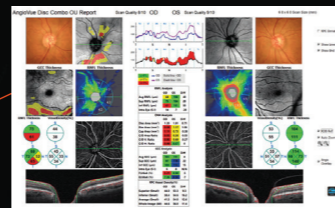
Dry eye



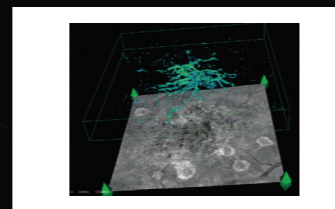
Automatic placement of measurement tools and Crystalline lens report



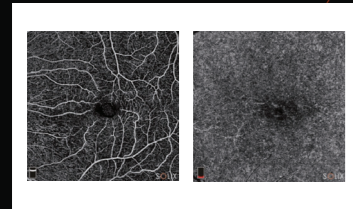
Scan density and glaucoma follow-up



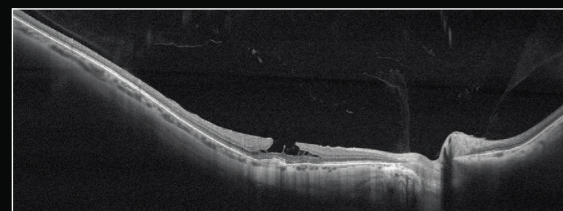
Choroidal Neovascularization



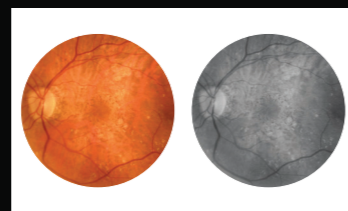
AngioVue® Retina, OCT Angiography (OCT-A)



FullRange Retinal scan 16 x 6.25mm



Fundus photography



This main image is a photomontage composed of multiple elements sourced from the Solix. It cannot be produced directly by the device without post-production work.

Introducing **the new 2-in-1 solution** that harnesses the best in OCT-Angiography to completely revolutionize your patient care. In a single machine, **FullRange® OCT excels in both anterior and posterior segment imaging**, offering ultra-high-speed scanning and a comprehensive field of view that delivers exceptional depth and width – without compromising image clarity or resolution.

Benefit from the tools you need to identify and manage a wide array of ocular pathologies, **providing a superior diagnostic experience from the front of the eye to the back.**

With a single 2-in-1 scan, you'll work faster, smarter and more efficiently, all while freeing up office space, reducing patient stress, and shortening examination times.

Once you've experienced the efficiency and precision of FullRange® OCT, you'll wonder how you ever managed without it.

OCT anterior segment

- FullRange anterior segment imaging to capture the entire anterior chamber in a single scan
- External IR imaging to enable evaluation of Meibomian glands of the upper and lower lids without a dedicated imaging device
- Fundus and external color photography

OCT posterior segment

- Proven glaucoma analytics that combine structural and vascular images and measurements
- FullRange retinal imaging that allows wide and deep imaging of the retina, choroid and vitreous...even in highly myopic patients
- Optovue's industryleading AngioVue OCT Angiography (OCTA) for non-invasive 3D
- Ultra-fast spectral-domain technology produces a wide and deep field of view that does not compromise image resolution
- Multi-volume merge averages four scan

volumes to deliver high-density images with pristine clarity

- 3D vessel rendering enables real-life visualization of retinal vasculature and vascular connectivity
- 3D PAR 2.0 rapidly removes the majority of projection artifact from the deep plexus to simplify image interpretation and produce more reliable quantification
- New segmentation algorithms dramatically improve Bruch's membrane and RPE segmentation for more confident assessment – even in highly diseased eyes
- DualTrac™ Motion Correction Technology with enhanced visualization combines real-time tracking and patented post-processing to enable true 3D correction of distortion in all directions for ultra-precise motion correction visualization and quantification of retinal vasculature
- Wellness capabilities that have become part of a new standard of care for patients suspected of both retinal pathologies and glaucoma

Images courtesy of Pablo Dighiero, Professor of medicine, Adil El Maftouhi (CHNO des XV-XX, Paris, and Center Ophtalmologique de Rive, Geneva), Julie Rodman, OD (Broward Eye Care Institute, FL, and Nova Southeastern University).

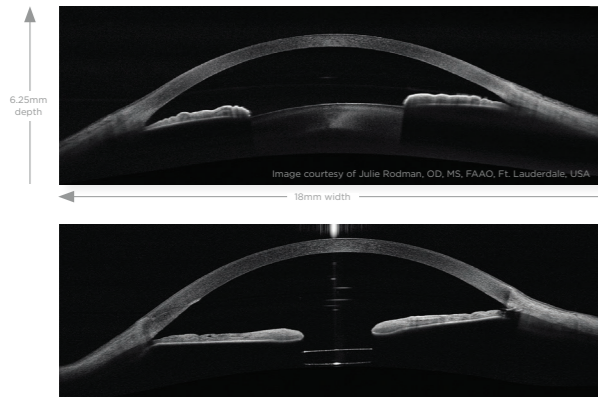
OCT Anterior segment

Solix FullRange anterior imaging

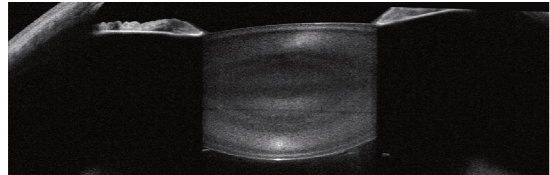
provides stunning views of the entire anterior chamber, from the front surface of the cornea to the anterior surface of the lens. A comprehensive anterior segment package expands the clinical utility of the system to address a broad range of patients.

FULLRANGE ANTERIOR SEGMENT

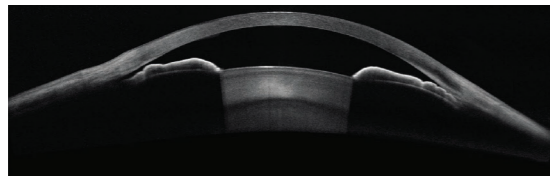
Solix FullRange anterior imaging provides stunning views of the entire anterior chamber, from the front surface of the cornea to the anterior surface of the lens. A comprehensive anterior segment package expands the clinical utility of the system to address a broad range of patients.



ICL : Visualize and measure placement of implantable collamer lenses.



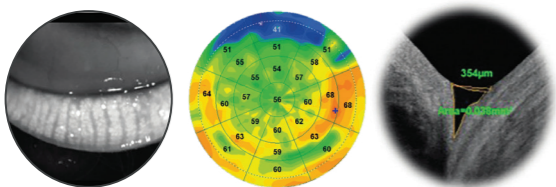
Cataract : Shift the scan depth to evaluate opacities and measure the size of the lens prior to cataract surgery.



Visualize and measure anterior chamber structures in angle closure glaucoma, pupil block glaucoma and glaucoma shunt placement with a single scan.

DRY EYE

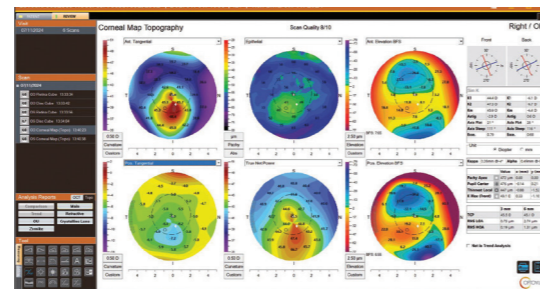
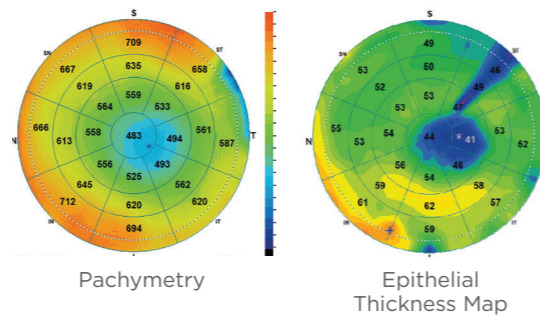
Enhance dry eye diagnosis and management incl. External IR imaging of Meibomian glands.



CORNEAL AND EPITHELIAL THICKNESS MAPPING

Quantify epithelial, stromal and total corneal thickness with the 10mm Corneal Layer Map, which features 16 meridians to fully cover the LRS transition zone. Use the Highlight Tool to further appreciate subtle changes in thickness. The Change Analysis report measures changes in thickness between visits.

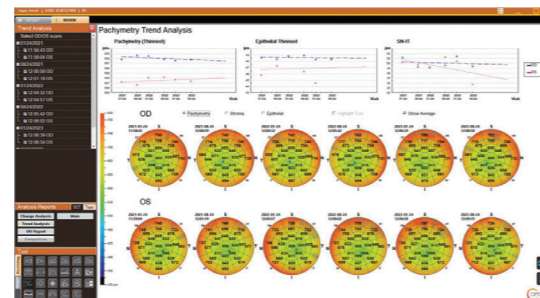
10mm Corneal Layer Map



Corneal Map topography - Keratoconus

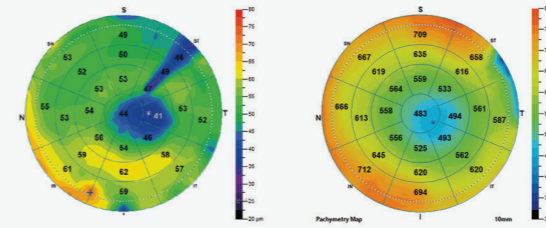
PACHYMETRY TREND

This report is highly useful for monitoring post-surgical epithelial changes, adjusting contact lenses, following up on Ortho-K treatments, and tracking keratoconus progression.

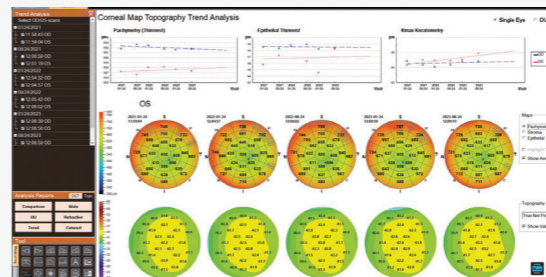


KERATOCONUS

Measuring the epithelial, stromal, and total corneal thickness is crucial for diagnosing corneal diseases. Analyzing pachymetric measurements helps assess Keratoconus risk and enhances diagnostic accuracy. Trend maps are also valuable for monitoring the progression of refractive keratoconus.



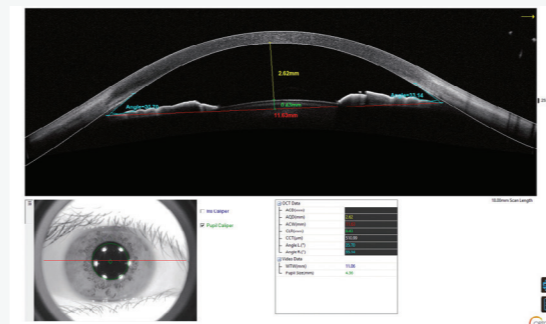
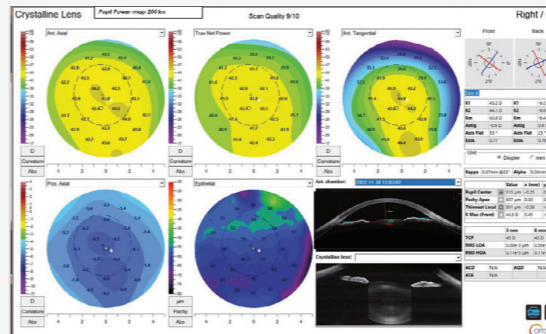
Coollabs Keratoconus Risk Scoring System: (<http://www.coolab.net/resources>)



ICL MANAGEMENT

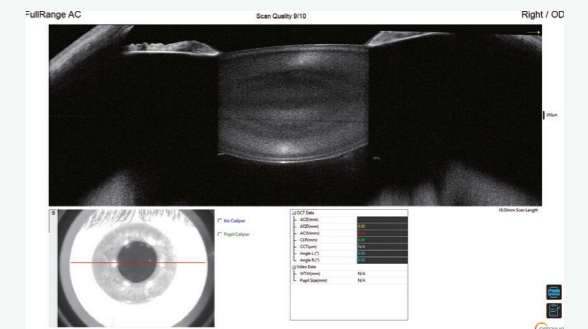
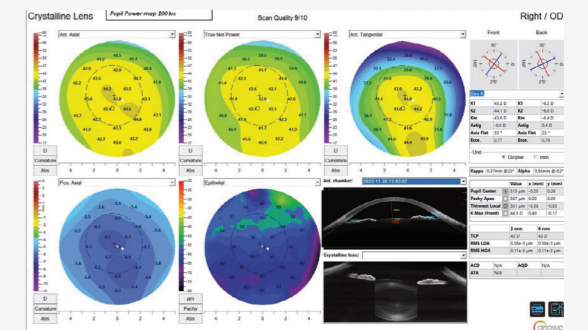
The key parameters, horizontal corneal WTW (white-to-white) and ACD, are available in a dedicated report. You can then send this information to your manufacturers for calculating the appropriate ICL size. For **post ICL surgery** we can monitor the lens vaulting, the anterior chamber volume and the gonio angle.

* Implantable collamer lens



CATARACT

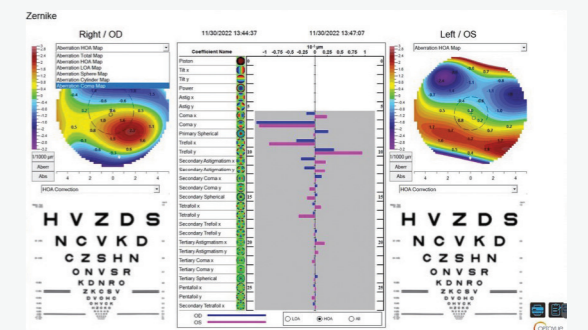
Corneal topography provides essential information for patients scheduled for cataract surgery. Critical information can be obtained, such as: irregular corneal astigmatism, early or moderate keratoconus (KCN), pellucid marginal degeneration, ATIOL fit, **true net power** etc.



Shift the scan depth to evaluate opacities and measure the size of the lens prior to cataract surgery.

ABERROMETRY

Easily obtain **corneal aberrometry maps** with the Solix, which plays a crucial role in both **pre- and post-cataract surgery**. It provides detailed maps of lower-order and higher-order aberrations, as well as simulations of visual acuity.



The combination OCT anterior / posterior

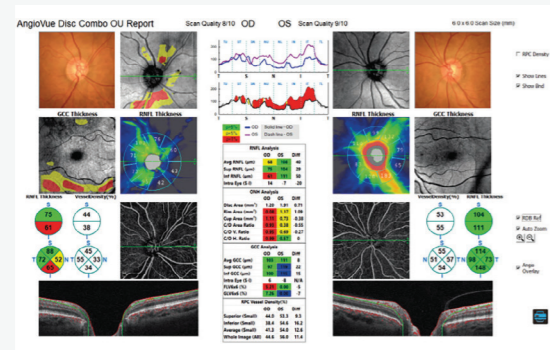
The Solix glaucoma package

delivers in-depth analysis of the optic nerve head structure and vasculature. Optovue-exclusive data points bring additional insights that aid in clinical decision making. A single scan protocol with Motion Correction Technology (MCT) generates both OCT and OCTA images with AngioAnalytics metrics to optimize efficiency and help you quickly understand each patient's rate of change.

OPTIC DISC ANALYSIS

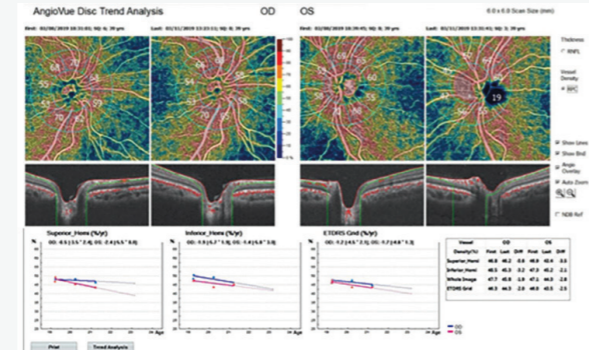
Disc Combo Report

Enhance glaucoma diagnosis and management with a single scan protocol showing optic nerve head parameters, RNFL and GCC thickness with comparison to a reference database of normal subjects, radial peripapillary capillary (RPC) vasculature and RPC density.



AngioDisc Trend Analysis Report

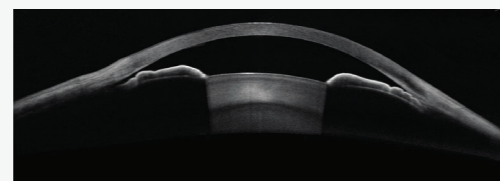
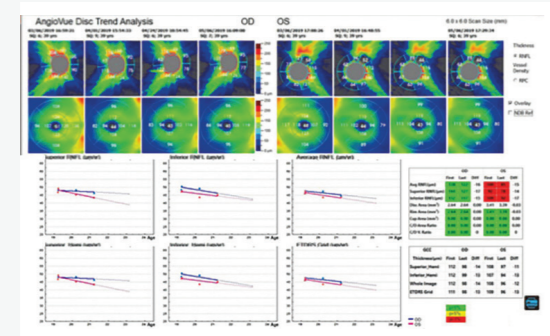
Measure the vessel density of the RPCs, assess visit-to-visit change, and estimate rate of change in glaucoma patients and suspects. Vessel density analysis complements RNFL and GCC analysis and aids in the management of advanced glaucoma – especially in cases where neural structural measurements have reached the measurement floor.



TREND ANALYSIS

ONH + GCC Trend Analysis Report

Track change and estimate the rate of change in both GCC and RNFL thickness with unparalleled reproducibility to easily assess how quickly a patient's disease is progressing.



Visualize and measure anterior chamber structures in angle closure glaucoma, pupil block glaucoma and glaucoma shunt placement with a single scan.

OCT Posterior segment

The Solix retina management.

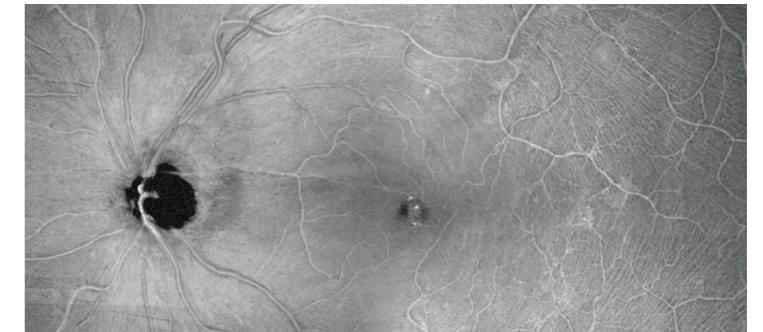
Solix delivers pristine images of retinal structures with unprecedented views of the vitreous and choroid, enabling confident diagnosis and management of retinal pathologies – even in highly myopic patients. A single scan protocol with MCT generates all the necessary images and data needed for comprehensive retinal analysis, which optimizes efficiency and quickly provides the clinical data your practice demands.

EN FACE OCT

DualMontage

Combine two 9x9 scans for a seamless view of the posterior pole.

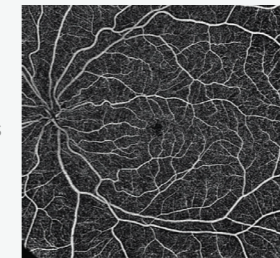
Image courtesy of Alexandra Miere MD, Creteil University Hospital, France



ANGIOVUE OCTA

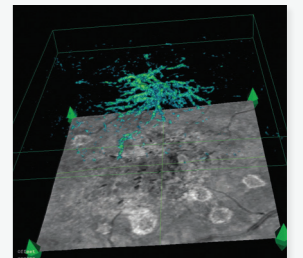
QuadMontage

AngioVue QuadMontage combines four 9x9mm scans for widefield visualization of the peripheral retina.



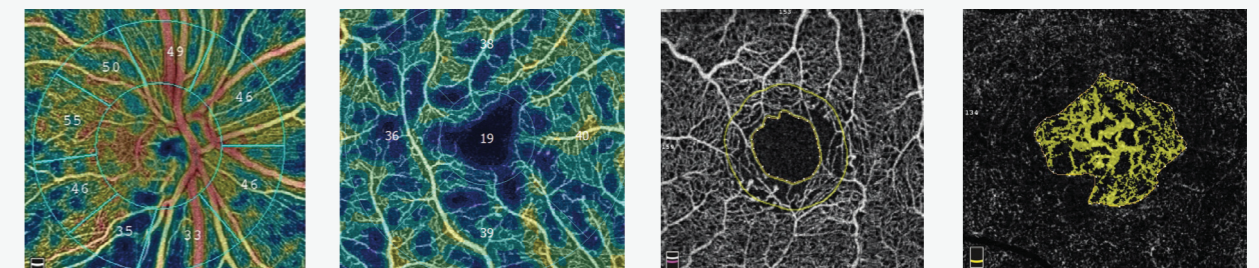
3D OCTA

Optovue's exclusive 3D OCTA rendering enables real-life visualization of retinal vasculature and vascular connectivity.



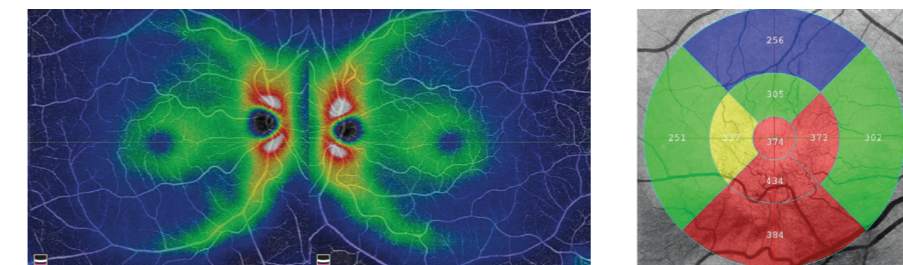
AngioAnalytics™ OCTA Metrics

Vessel Density Mapping, FAZ Analysis, Flow Area Measurements.

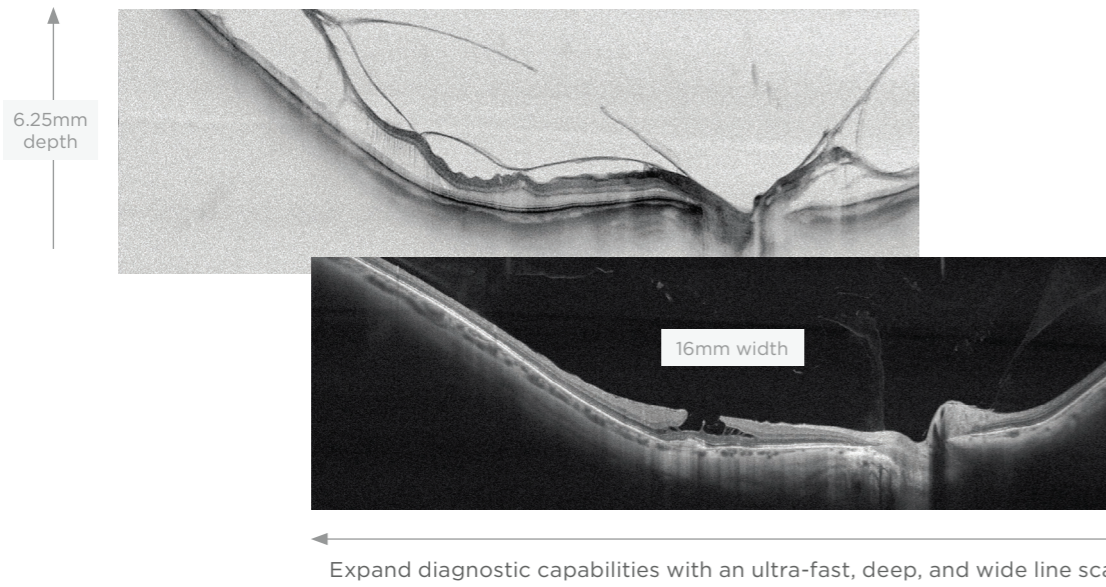


THICKNESS MAPS

Measure retinal thickness and GCC thickness maps and compare to a reference database.

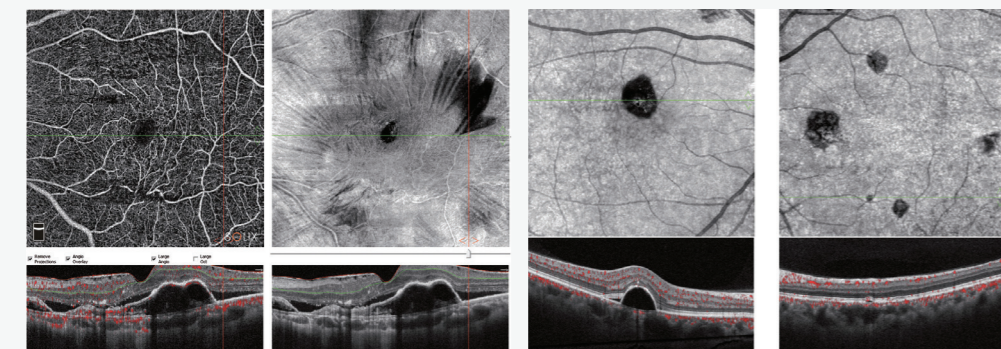
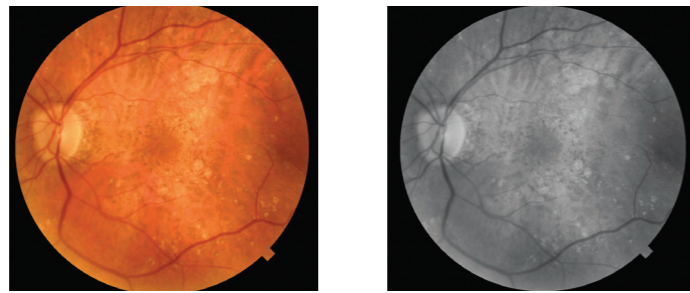


FULLRANGE RETINA



FUNDUS PHOTOGRAPHY

View retinal photos in color, grayscale and inverse modes.



GOOD ENFACE IMAGE

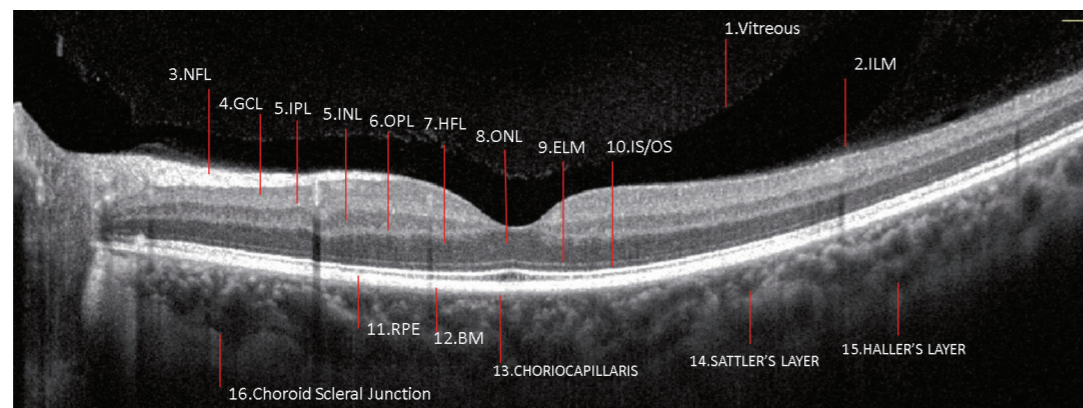
Provide an overview of each layer of the retina.

A good Enface image comes from many high quality OCT scans.

In the past we «scrolled» the OCT, Now we see where the abnormality is located

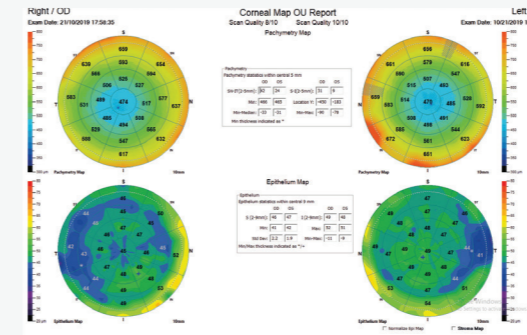
Routine Clinic scan with clear media patient providing fine details of each retina layer from vitreous to sclera. Scan taken at the 24 averaging on routine clinic patient

RETINA LAYER

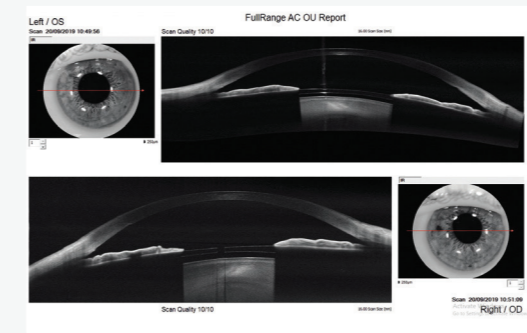


Solix reports

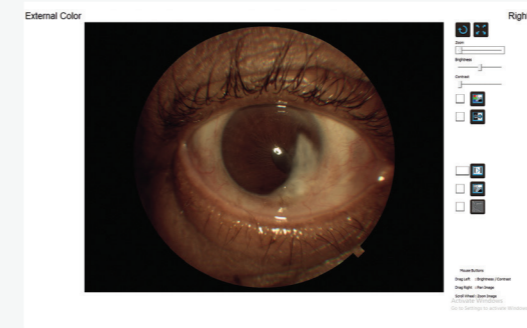
ANTERIOR SEGMENT



Cornea Layer Map: Single Eye, OU and Change Analysis Reports

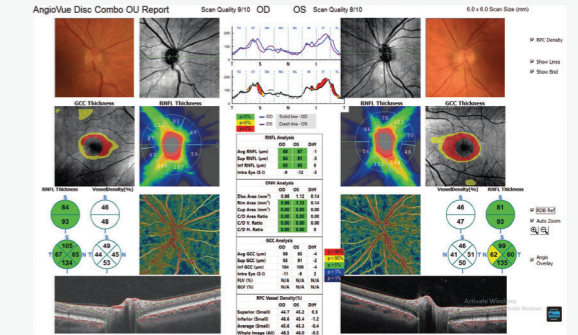


FullRange AC: Single Eye and OU Reports

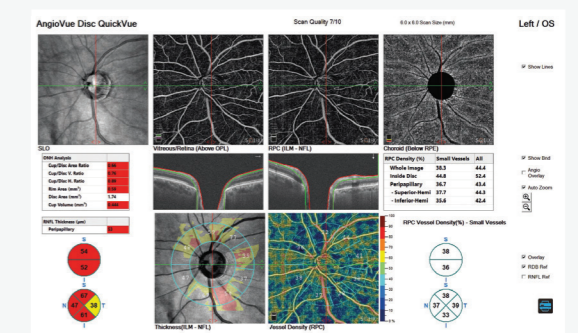


External Photography
Image courtesy of Julie Rodman, OD, MS, FAAO, Ft. Lauderdale, USA

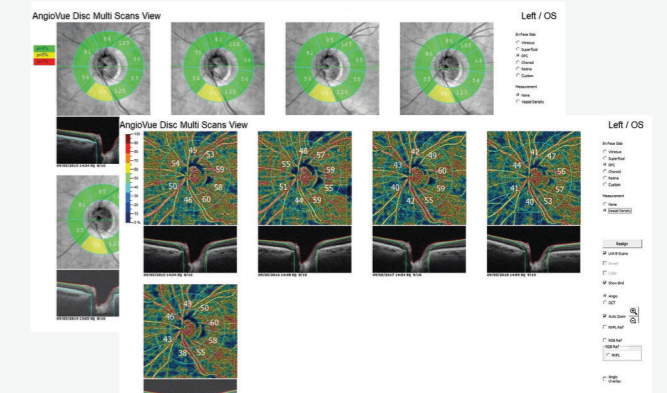
GLAUCOMA



Disc Combo Report

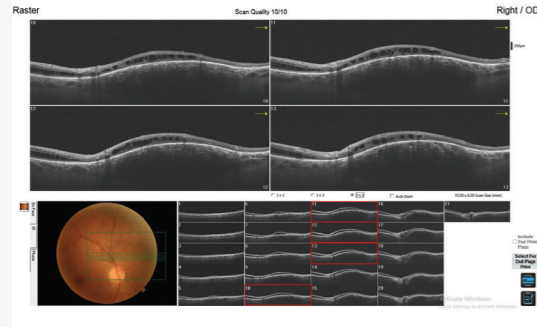


AngioVue Disc QuickVue

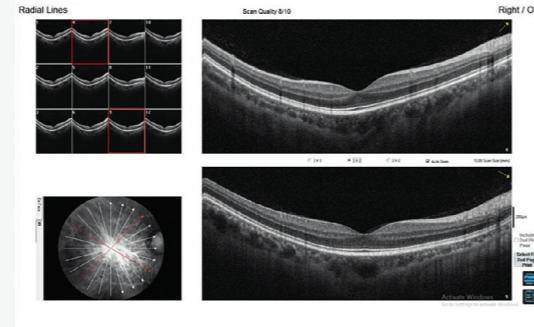


AngioVue Disc OU Trend Analysis and Multi-Visit View

RETINA REPORTS



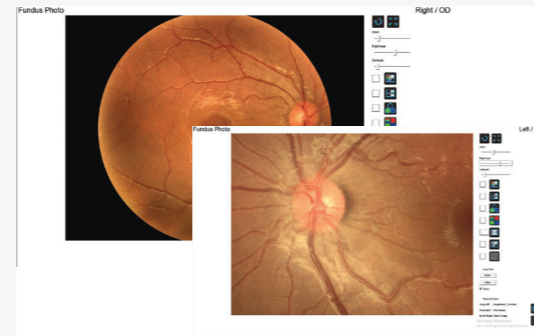
Raster



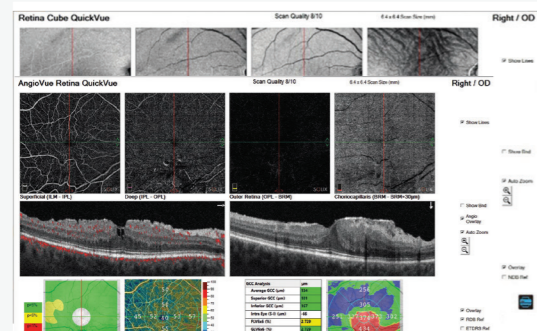
Radial



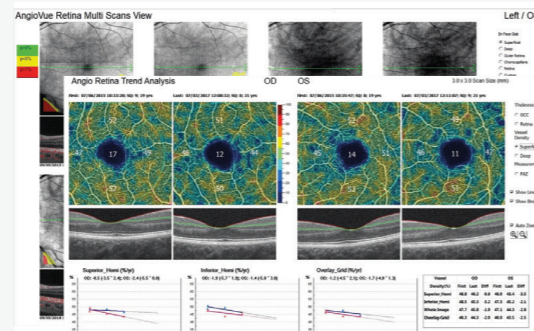
FullRange Retina Report



Fundus Photo



Retina Cube QuickVue and AngioVue Retina QuickVue



AngioVue Retina Trend Analysis and Multi-Visit View



Examples of retina pathologies detected with Solix



Technical specifications

SOLIX CONFIGURATIONS

- Solix FullRange OCT with AngioVue Expert Posterior and Anterior OCT Imaging with Fully-Featured OCTA

SOLIX TECHNICAL SPECIFICATIONS

OCT Imaging | Posterior segment

Scan Speed	120,000
Axial Resolution	5µm (in tissue)
Lateral Resolution	15µm (in tissue)
Scan Depth	Up to 3 mm (regular mode) Up to 6.25mm (FullRange mode)
Scan Width	3mm - 16mm
Dioptric Range	-15D to +15D
Pupil Size	≥ 2.0 mm

OCTA Imaging

Retina Scan Sizes	3x3mm, 6.4x6.4mm, 9x9mm and 12x12mm
Disc Scan Size	6x6mm
AngioVue Montage	Two 9x9mm scans, four 9x9mm scans

OCT Imaging | Anterior Segment

Lateral Resolution	18µm (Regular CAM) (in tissue) 36µm (FullRange CAM) (in tissue)
Scan Depth	Up to 3 mm (regular lens) Up to 6.25mm (FullRange lens)
Scan Length	2mm - 18mm
Corneal Map	10mm - 16mm meridians

Fundus Photography

Resolution	5MP
Scan Mode	Color, red-free*
Field of View	45° and 35° (small pupil mode)
Dioptric Range	-35D to +30D
Pupil Size	≥ 4.0 mm; ≥ 3.3 mm (small pupil mode)

External Photography

External Photograph	Color (white light flash)
External Infra-Red (IR) Image	IR (940nm illumination)

Electrical and Physical Specifications

Weight	95 kg (210 lbs)
Instrument Dimensions	1072mm X 600mm x 610mm (W 39.4 x D 31.5 x H 59 inches)
Table Dimensions	952mm x 600mm x 913mm (W 36.2 x D 23.6 x H 35.9 inches)
Fixation	External and 13-point internal
Electrical Rating	AC 100V-240V

Computer/Networking Specifications

Operating System	Windows 10
CPU	Intel Core i7-8700 processor or above
RAM	32GB DDR4 or more
Hard Drive	Solid state drive 256GB for operating system Main drive 4TB Back-up drive 4TB
DICOM	DICOM MWL, DICOM storage
Networking	NetVue Pro Review Software - Up to 10 Workstations

Medical device conformity

European Union: Class IIa Medical Device CE certified according to MDR 2017/745 by TÜV Rheinland (0197)
 USA: 510(k) Approved K222166
 Electrical Safety: IEC60601-1
 EMC: IEC60601-1-2

CE 0197

*Color image is processed and then displayed as a pseudo red-free image.


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