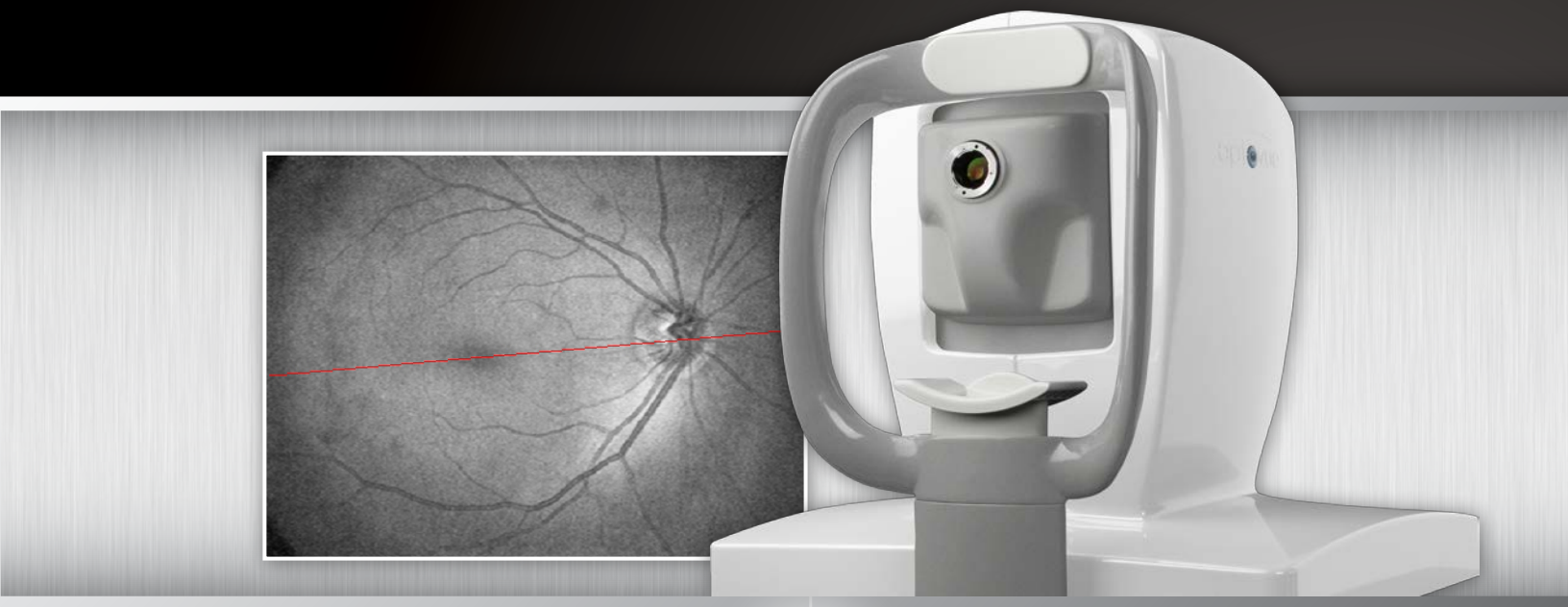
AVANTI™
RTVUE XR

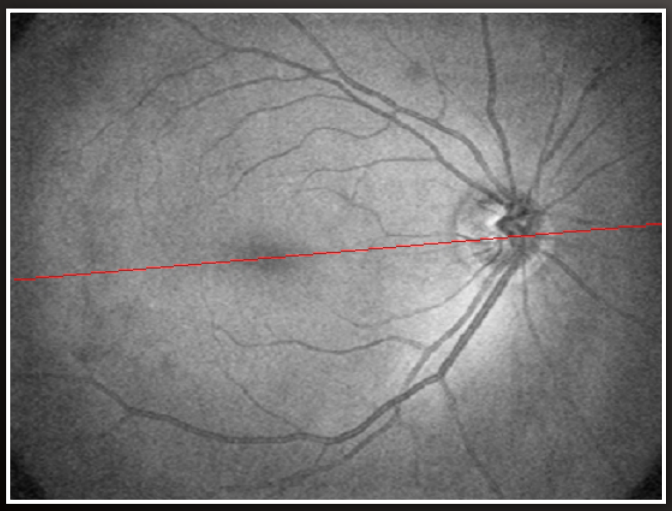


Widefield Enface OCT

optovue

DEFINING THE OCT REVOLUTION

From front to back,
we've got you covered.



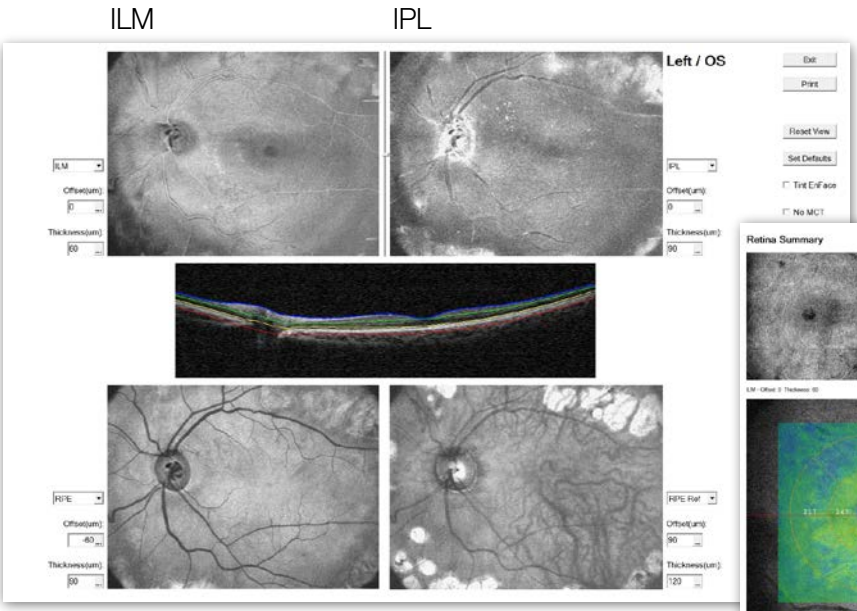
40˚ Widefield Enface Fundus Image

THE AVANTI ADVANTAGE

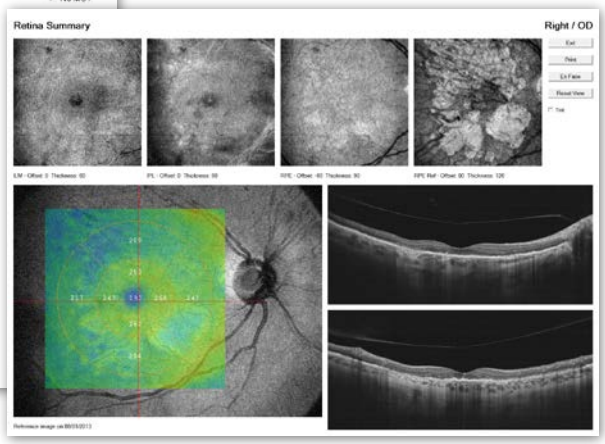
- Widefield Enface OCT with SMART™ Motion Correction
- Simultaneous Multi-Layered Assessment of Peripheral Retina Pathology
- Forward-Thinking Platform for Future Innovations

Retina

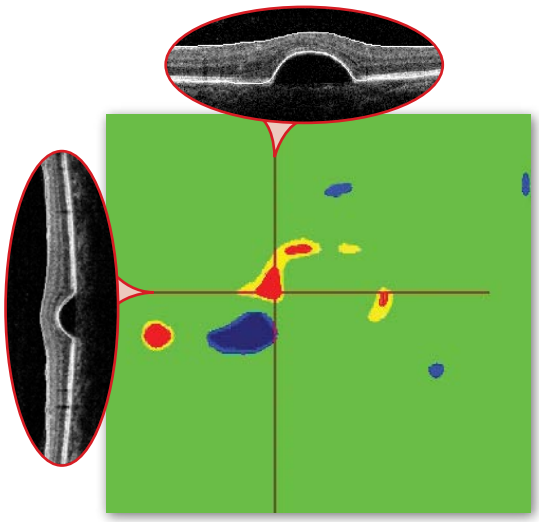
For documentation and monitoring of ocular disease



Multi-layered assessment of peripheral pathology at various levels in the retina and choroid.



Retina Summary Report - 40° Widefield enface, multi-layered enface analysis, and high resolution Cross Line in one, easy-to-read report.

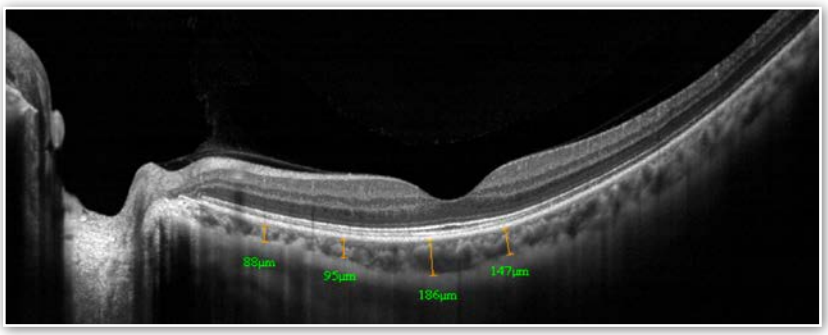


Intelligent Macular Mapping

- Full Retina Thickness comparison to the Normative Database
- Visualize small structural changes
- Click on location to present vertical and horizontal B-scans
- Change Analysis to monitor retina based ocular disease
- Volumetric Analysis

Retina Tracking

Avanti's 3mm scan depth and 40° scanning with V^{TRAC} active eye-tracking provides the detail and clarity you need to assess the retina, monitor your patients and track disease progression.

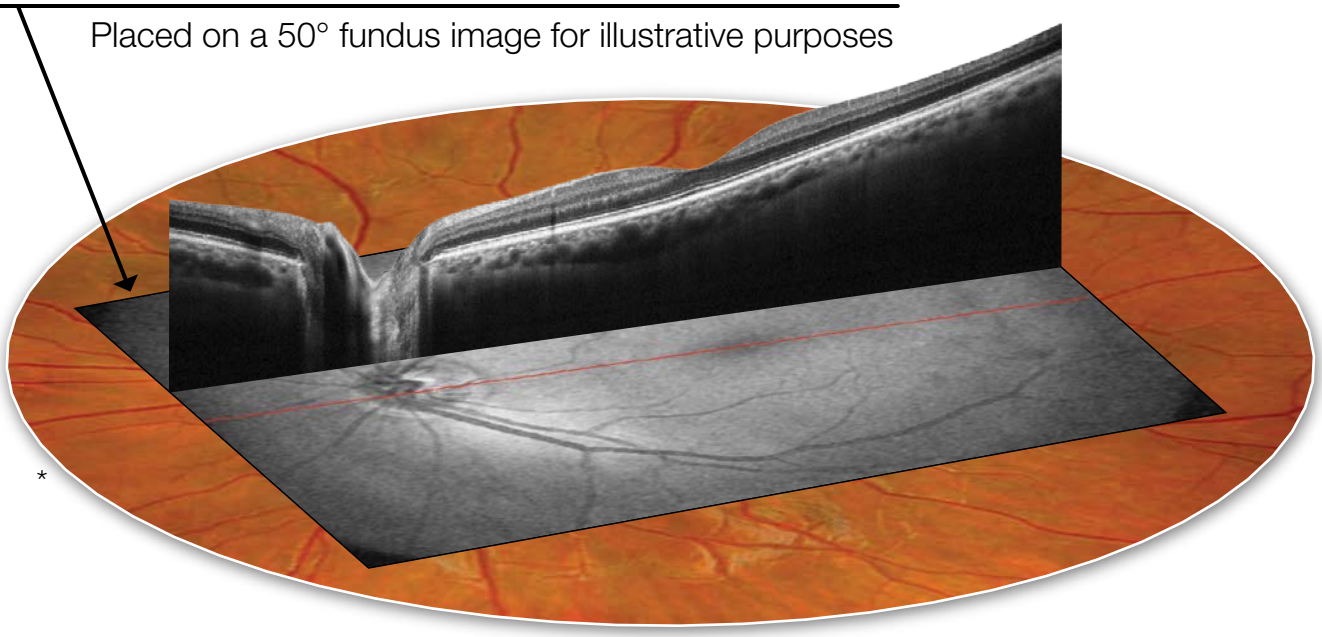


Track B-scan with Deep Choroidal Imaging (DCI™) & Measurement

Widefield

40° Coverage from Widefield 3D OCT Scan

Placed on a 50° fundus image for illustrative purposes



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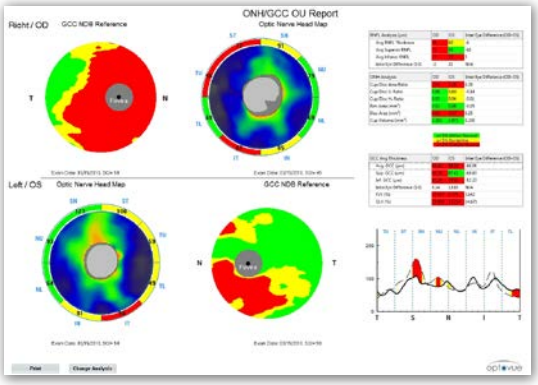
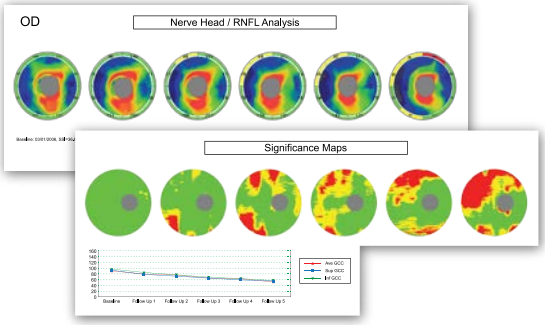
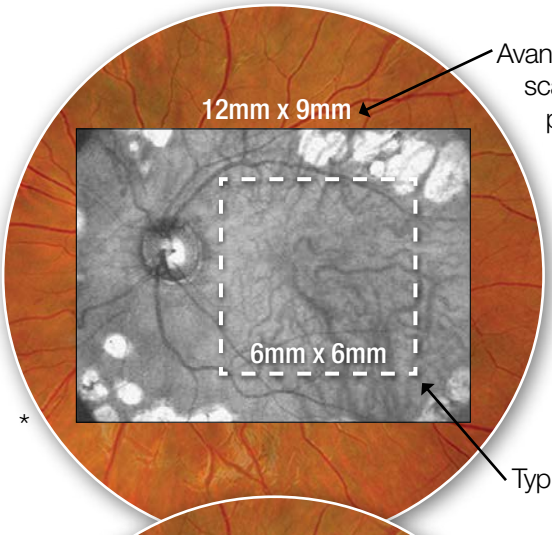
Glaucoma



OU Combo Report with Optic Nerve Head and Ganglion Cell Complex



RNFL, Optic Nerve Head & Ganglion Cell Complex Change/Trend Analyses to track disease progression.



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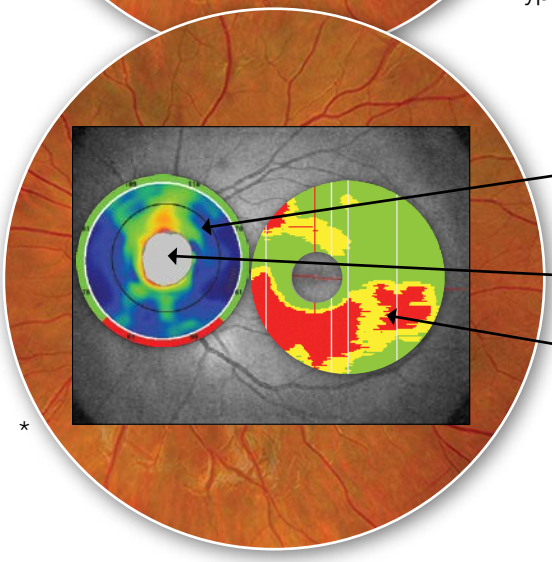
Avanti's Widefield 3D scan images pathology missed by typical 6x6mm central macula scans

Typical Competitor 3D



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RNFL Thickness Mapping

Optic Disc Metrics

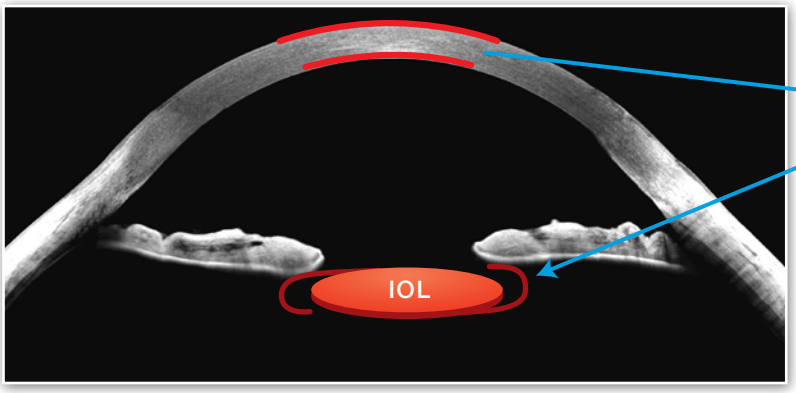
Ganglion Cell Complex Analysis

*For illustration purposes only.

Cornea / Anterior Segment

For non-contact Anterior Segment Assessment

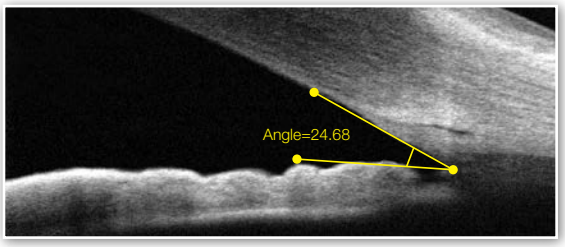
TCP®: Total Cornea Power



TCP®: Total Cornea Power enhances post-refractive IOL calculations for greater confidence in surgical outcomes.

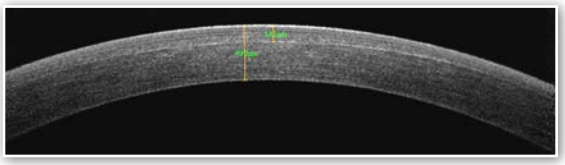
The Cornea Power Upgrade allows evaluation of patients with prior refractive procedures. Standard topography only calculates the front curvature and then extrapolates posterior curvature. Using the Cornea Power Upgrade, both the anterior and posterior curvatures are measured directly to obtain cornea powers.

Angles



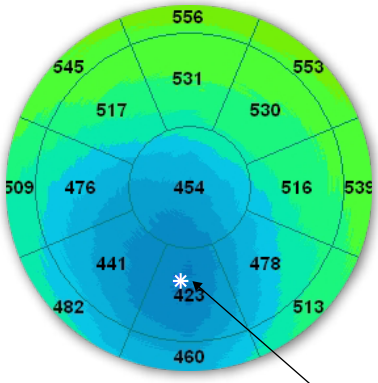
Angle Visualization and Measurement

9mm Cornea slice

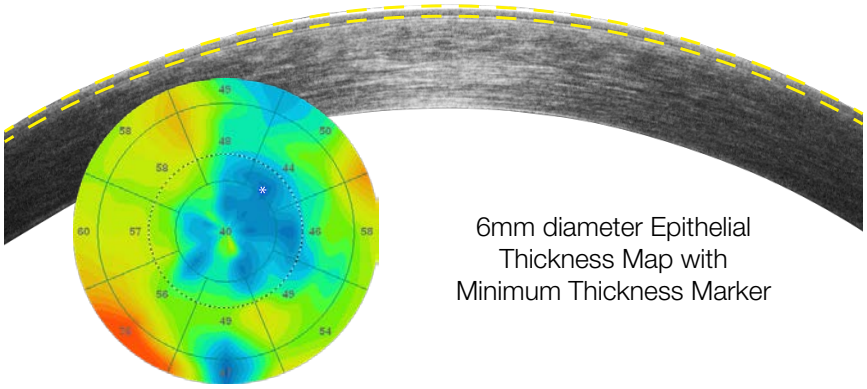


Post-refractive measurements on a 9mm Cornea slice

Pachymetry



Pachymetry - Full 6mm diameter corneal thickness mapping with minimum thickness indicator



6mm diameter Epithelial Thickness Map with Minimum Thickness Marker

ETM™: Epithelial Thickness Mapping

ETM aids the clinician in evaluating:

- Potential Keratoconus
- LASIK / LASEK / PRK Planning
- Tracking Epithelial Regrowth
- Dry Eye Patients
- Contact Lens Patients

AVANTI™
RTVUE XR

SPECIFICATIONS

OCT Camera :**70,000 A-SCAN/SECOND**
Optical Resolution: (in tissue)
- Depth: 5.0µm
- Beam Spot Size: 22µm

Image Sampling Rate:
- Depth: 3.0µm Digital Resolution

Scan Range:
- Depth: ~3mm
- Transverse: 2mm to 12mm

Scan Beam Wavelength:
- λ=840±10nm

Exposure Power at pupil: 750µW maximum
Patient Interface:
- Working Distance: 22mm
- Motorized Focus Range: -15D to +20D

Computer:
- CPU: i7, 3.2 GHz, Windows7®
- RAM: 16 GB
- Hard Disk: 2 TB
- Back-up Hard Disk: 2 TB

Optovue Innovations

Cataract Surgeon ► Total Cornea Power (TCP®)
Glaucoma Specialist ► The Original Ganglion Cell Complex (GCC®) Analysis
Retina Specialist ► Widefield Enface Analysis

P/N 300-49177 Rev A International

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Defning the OCT Revolution

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