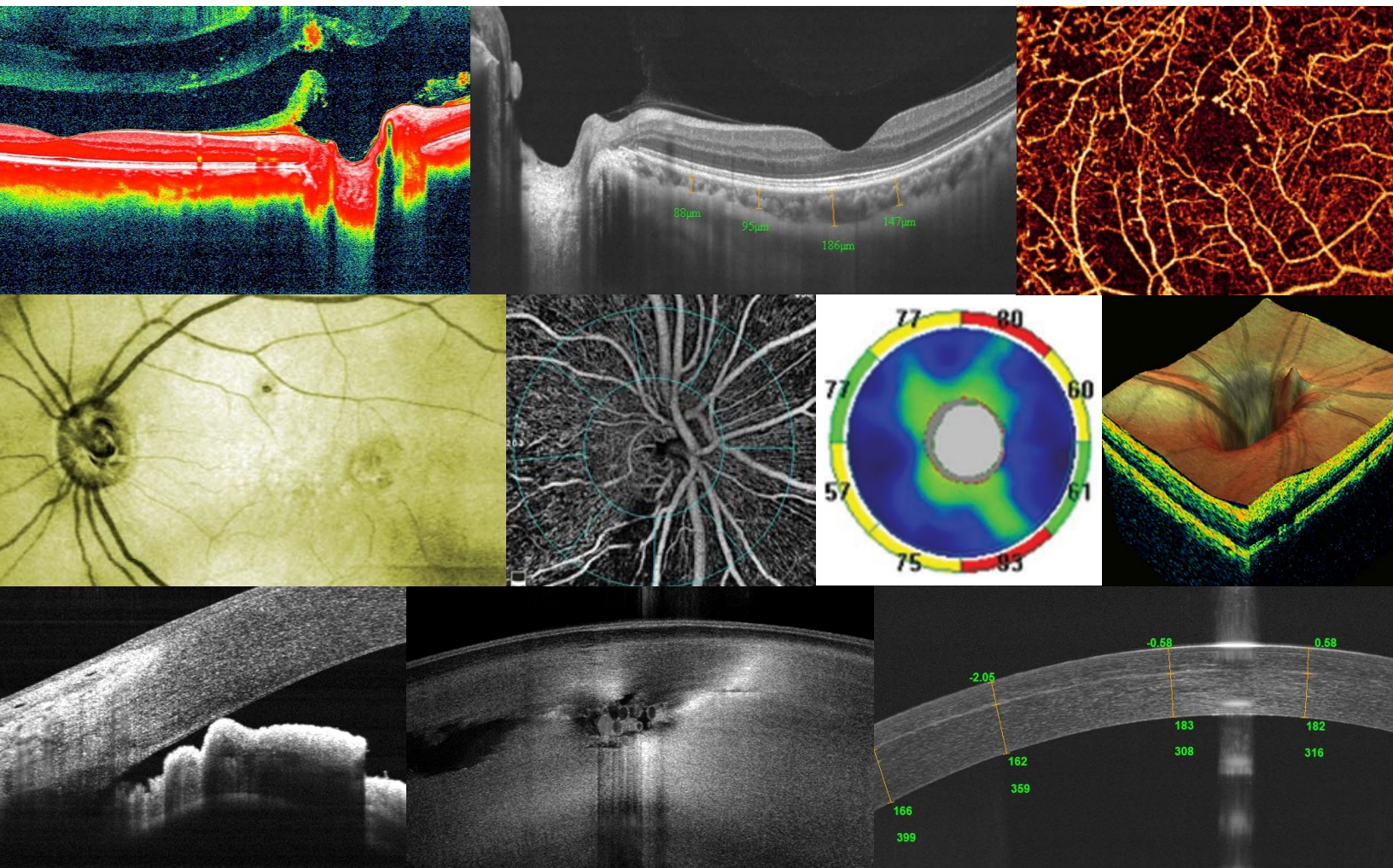


Avanti[®] Widefield OCT

with AngioVue[®] OCT Angiography



Simply the best
OCT & OCTA
image quality.

Avanti® Widefield OCT with AngioVue® OCT Angiography

The Avanti Widefield OCT offers **state-of-the-art imaging** from the cornea to the choroid with exclusive technology that will change your approach to disease diagnosis and management.

When you're ready, add AngioVue OCT Angiography (OCTA) to the Avanti platform to bring non-invasive vascular imaging to your practice. Ease into OCTA with **AngioVue Essential** or choose **AngioVue Comprehensive** to access all available OCTA features. For the retina specialist, there's **AngioVue Retina**, retina-only OCT and OCTA.

Optovue's flexible product configurations are easily upgradeable, so your OCT system meets the needs of your practice today and into the future.

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Introduction

Retina

Glaucoma

Anterior Segment

Specifications

Networking

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About Us

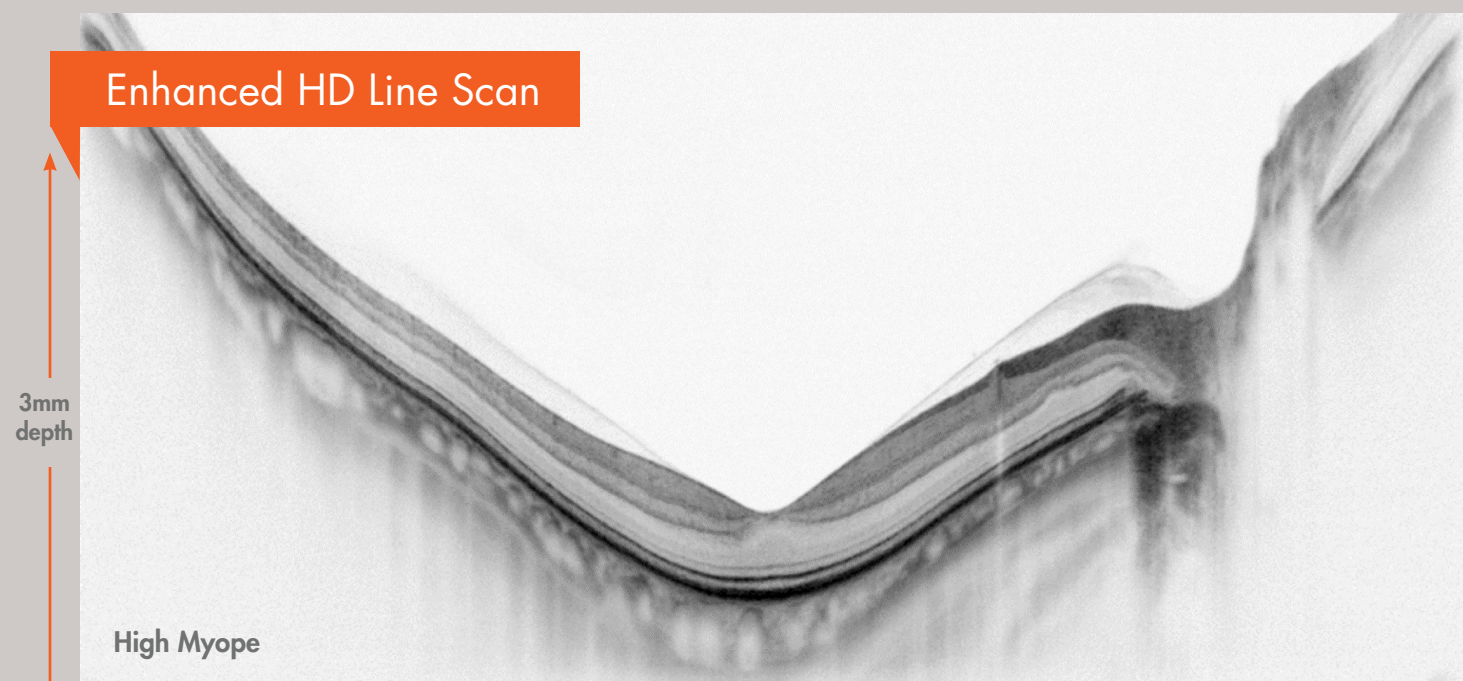
Optovue Exclusives



Enhanced HD Imaging of the Vitreous and Choroid

12mm widefield scan with **enhanced depth imaging** mode provides high resolution views (5µm axial resolution and 15µm transverse) of the vitreous, retina and choroid with **quantitative analysis tools**.

Enhanced HD Line Scan

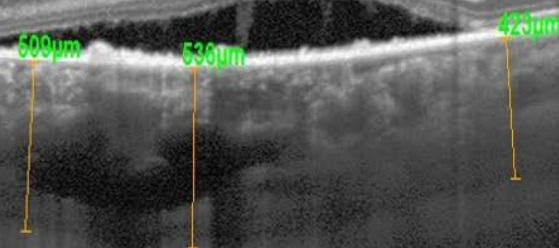


12mm width

3mm depth

High Myope

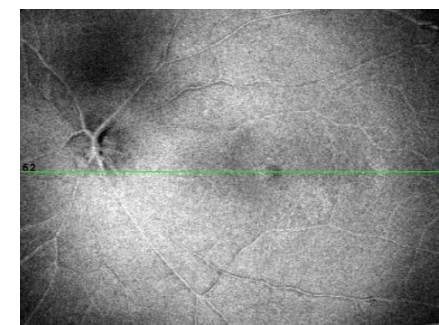
Visualize the vitreous and choroid with the Enhanced HD Line scan and quantify choroidal thickness with the caliper tool.



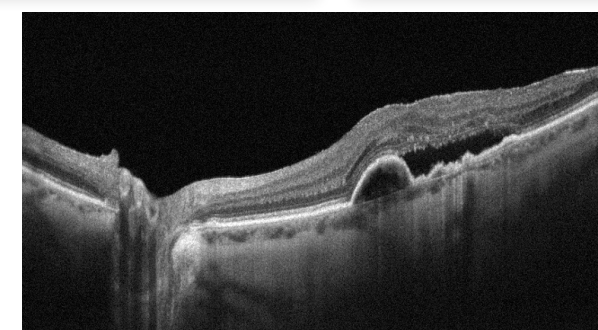
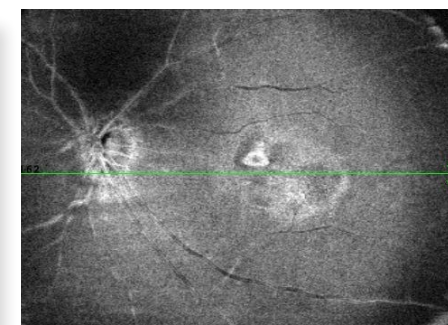
3D Widefield En Face Imaging

See the retina in three dimensions and **study individual layers** of the retina with en face imaging. Quickly identify structural abnormalities with the Widefield En Face Quad Image report.

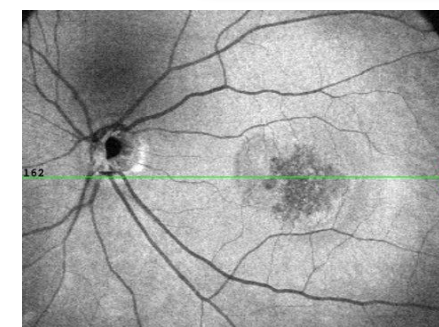
Vitreous



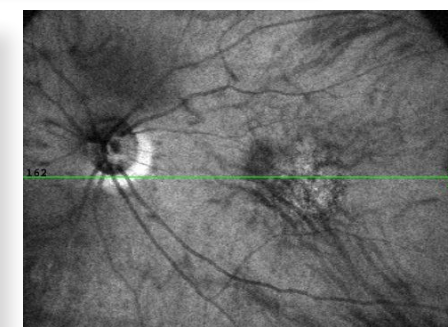
Neurosensory Retina



RPE

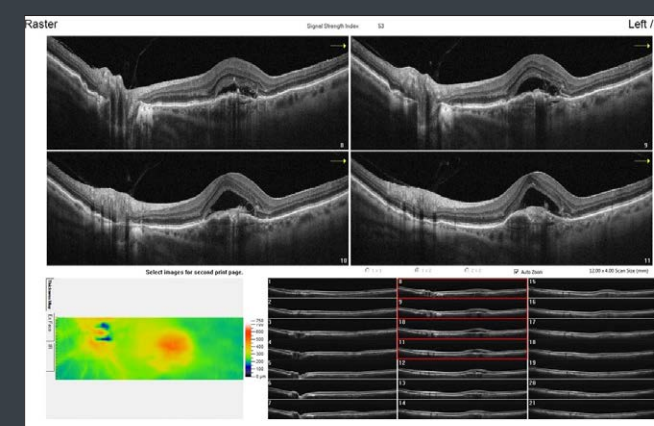


Choroid

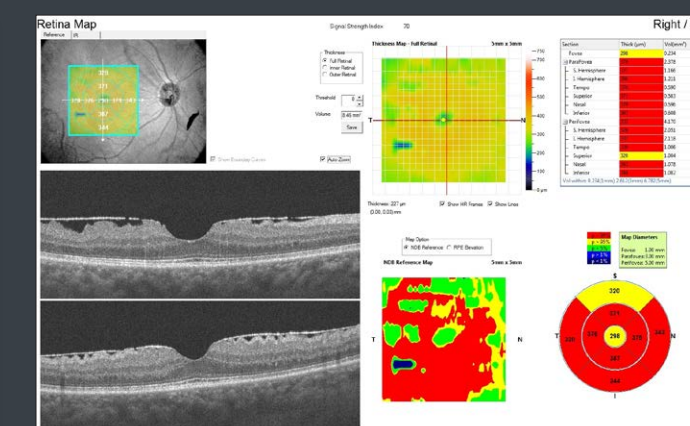


Comprehensive Retinal Analysis

Avanti reports provide a comprehensive assessment of the retina in an **easy-to-read** format.



21-line Raster scan with thickness map in AMD.



Retinal Thickness Map with normative comparison showing epiretinal membrane.

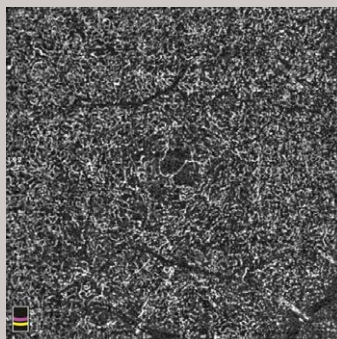
AngioVue OCT Angiography

Add AngioVue OCTA to the Avanti platform to enable **non-invasive vascular imaging** of retinal and optic disc vessels.

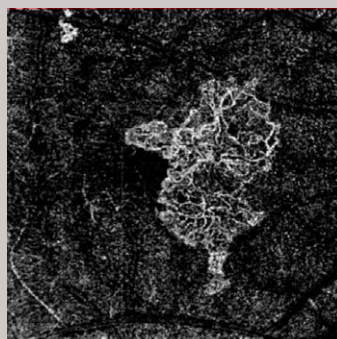
Superficial Plexus



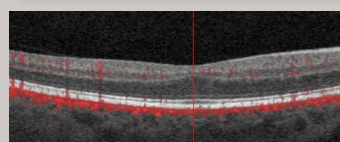
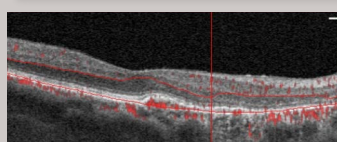
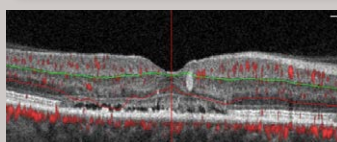
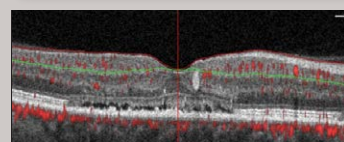
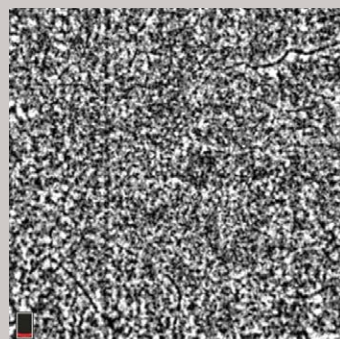
Deep Plexus



Outer Retina Zone

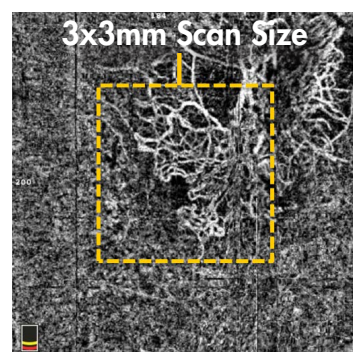


Choriocapillaris

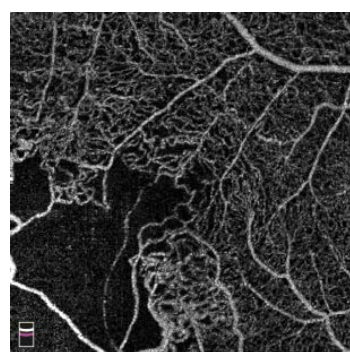


AngioVueHD™

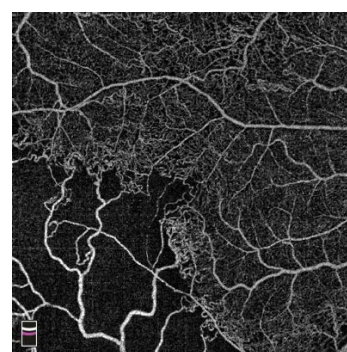
High density OCTA (400x400 vs. traditional 304x304 density) provides unprecedented views of the fine vessels extending beyond the central 3x3mm region of the macula. AngioVueHD affords the highest resolution for large format images.



CNV



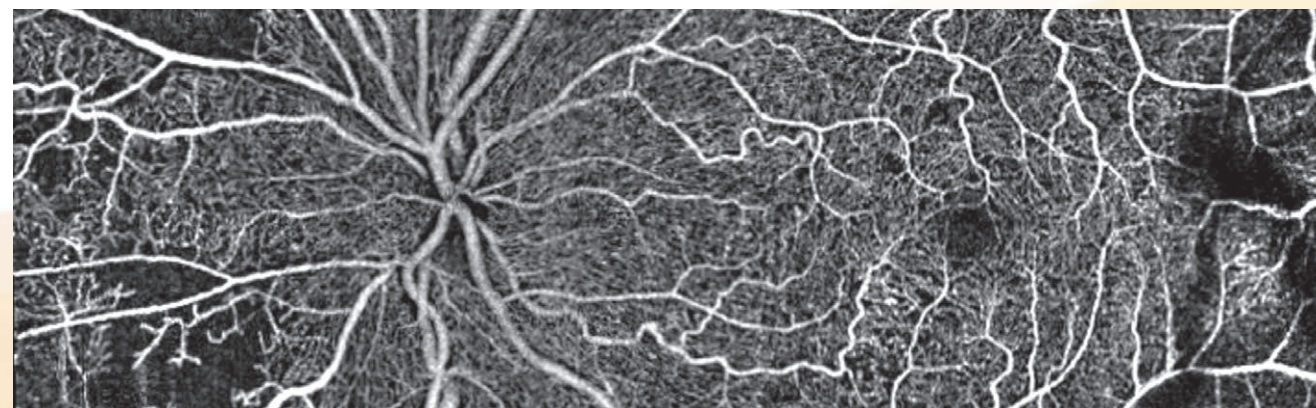
BRVO 3x3mm



BRVO 6x6mm HD

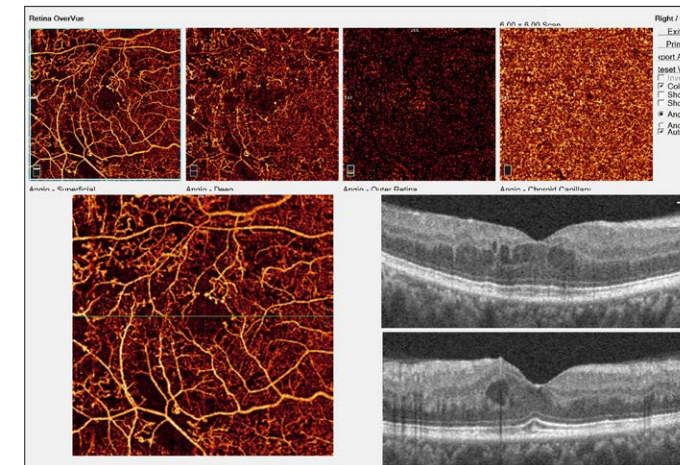
AngioVueHD Automatic Montage

10x6mm field-of-view with outstanding resolution of retinal vasculature in the macula and optic disc.



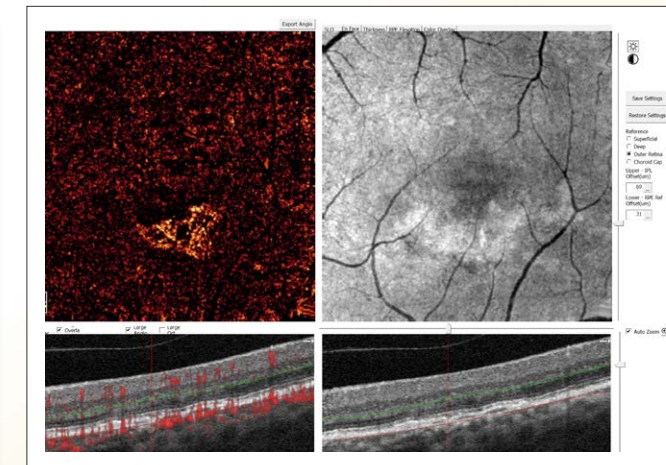
AngioVue Comprehensive

OCTA with **extensive analytical functionality** and segmentation editing capabilities.



Quickly assess four layers of vasculature with the Overview Report.

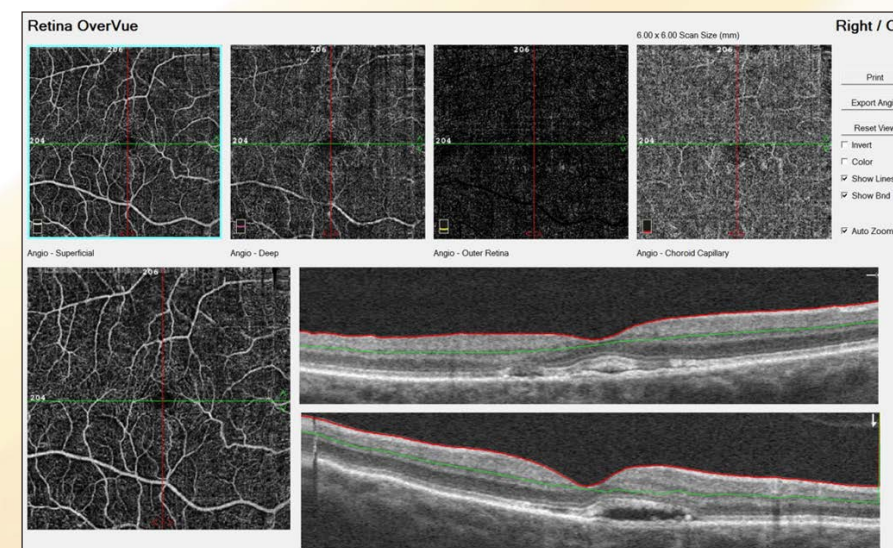
Images courtesy of Dan Esmaili, MD, Los Angeles, California



Use the OCTA Working Page to scroll through the 3D cube to isolate vascular abnormalities.

AngioVue Essential

Streamlined OCTA image interpretation with a single-page report.

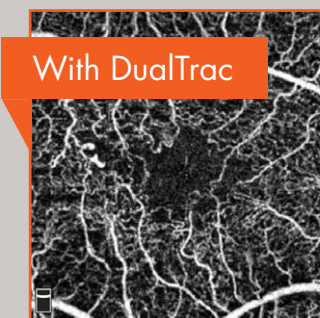


Assess four layers of vasculature to identify abnormalities that may require referral. Scrolling is enabled in the Choriocapillaris layer.

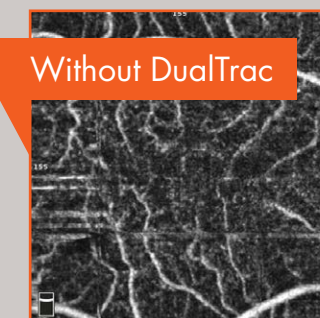
DualTrac™ Motion Correction

DualTrac Motion Correction Technology combines real-time tracking, a high-speed infrared camera (30 frames/sec.), and patented post-processing to enable true 3D correction of distortion in all directions. The outcome is ultra precise motion correction resulting in superior image quality.

With DualTrac

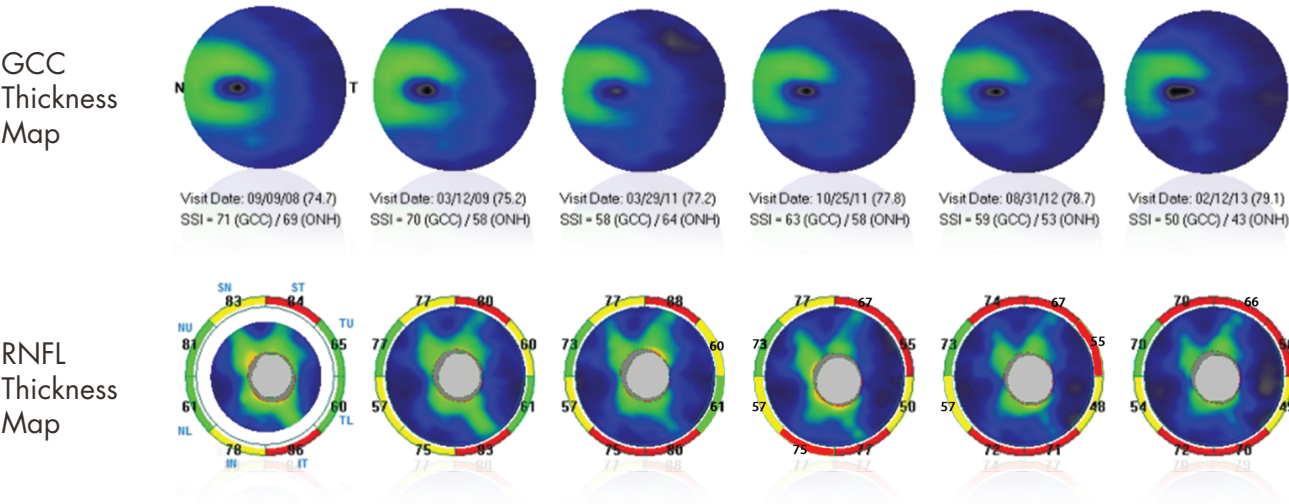


Without DualTrac



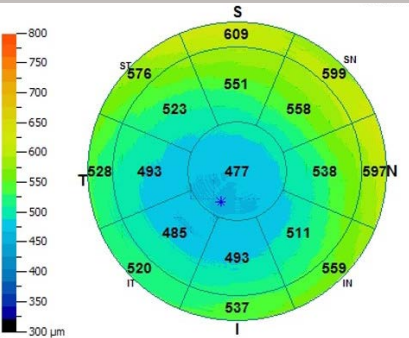
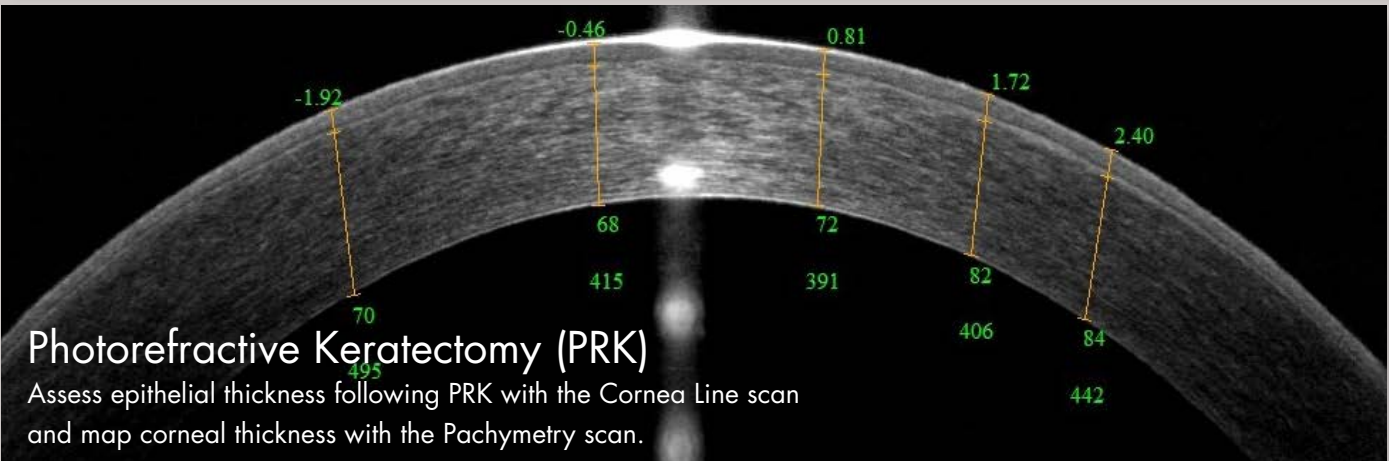
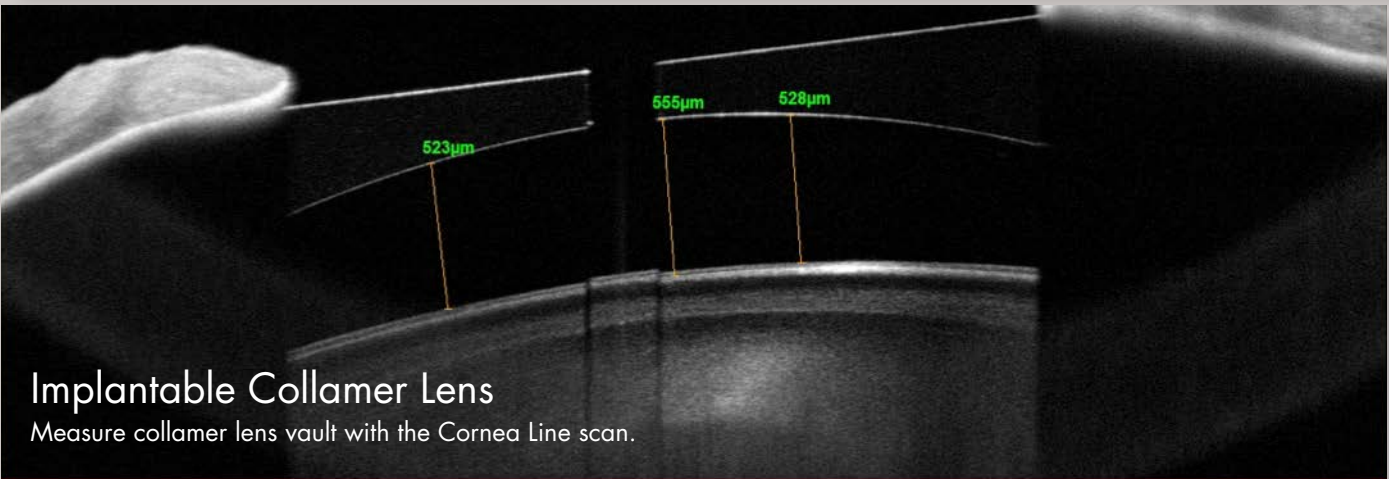
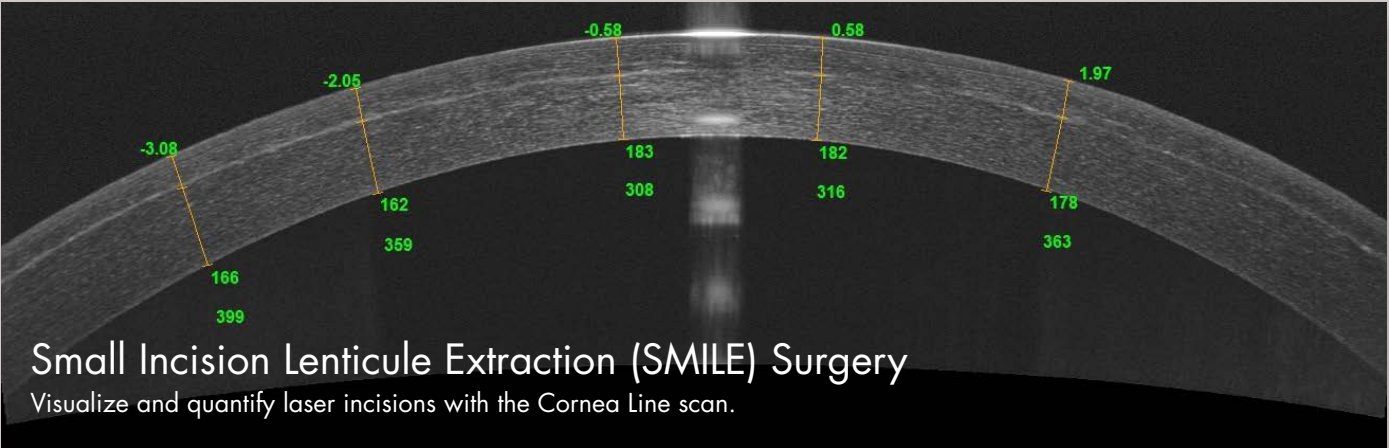
Trend Analysis

Trend analysis tracks change in both GCC and RNFL and produces a single-page report to estimate future progression.

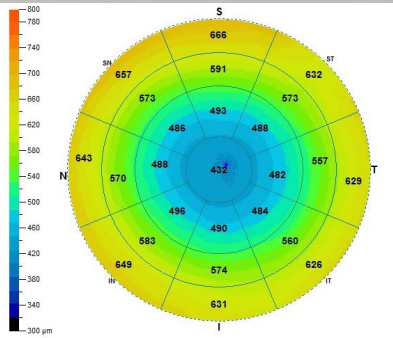


PRK and Post-Myopic PRK

Quickly map corneal thickness with the Pachymetry scan.

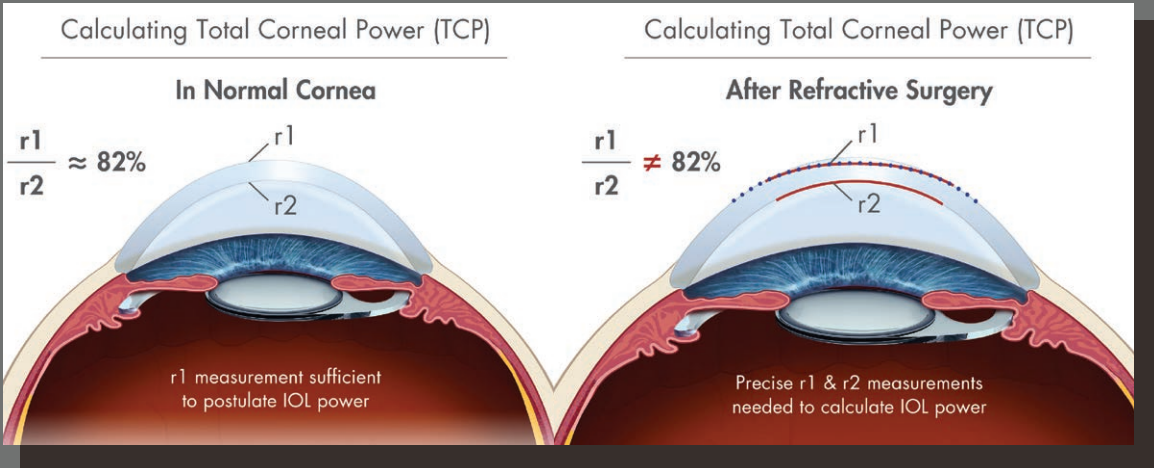


PRK



Post-Myopic PRK

Cataract Surgery



Total Cornea Power (TCP)® measures the front and back surface of the cornea to enable precise calculation of corneal power in post-laser vision correction patients.

TCP DATA POINTS

Enter the data points into the ASCRS calculator to generate recommended lens power. <http://iolcalc.ascrs.org/>

CORNEAL POWER

Within central 3mm zone

Power	Net	Anterior	Posterior
	41.08	47.20	-6.22

CURVATURE RADIUS

Anterior R:	7.966	Posterior R:	6.434
-------------	-------	--------------	-------

PACHYMETRY

Layer Offset Thickness

SN-IT (2-5mm):	9	S-I (2-5mm):	8
Min:	463	Location Y:	59
Min-Median:	-33	Min-Max:	-71

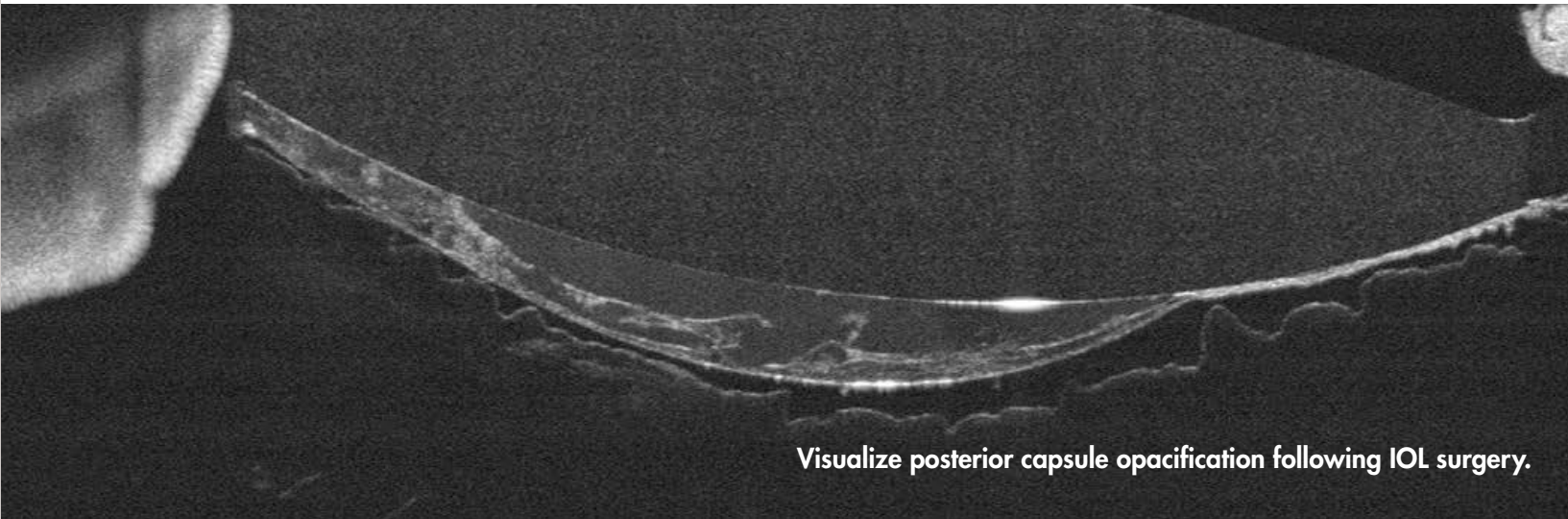
Min thickness at (-0.129mm, 0.059mm) indicated as*

EPITHELIUM

Epithelium statistics within central 5mm

S (2-5mm):	55	I (2-5mm):	57
Min:	51	Max:	61
Std Dev:	2.3	Min-Max:	-10

Min/Max thickness indicated as*/+



Visualize posterior capsule opacification following IOL surgery.

TECHNICAL SPECIFICATIONS

OCT Scanning Speed	70,000 A-scans per second
Optical Axial Resolution	~5 microns (digital pixel sampling = 3 µm)
Optical Transverse Resolution	~15 microns
OCT Axial Imaging Depth	2 to 3 mm (dependent on scan protocol)
AngioVue Imaging Volume	304 x 304 A-scans (for non-HD scans) 400 x 400 A-scans (for HD scans)
Acquisition Time Per OCTA Imaging Volume	~3 seconds
AngioVue Imaging Size (Retina)	3x3mm, 6x6mm HD, 8x8mm (AngioVue Essential includes 6x6mm scan only)
AngioVue Imaging Size (Optic Disc)	4.5x4.5mm HD, 6x6mm HD
Field of View	12x9mm

NETWORKING SPECIFICATIONS

Operating System	Windows 7; 64-bit OS compatible
Hard Drive Availability	Minimum 50GB
Processor Speed	Minimum Intel i5 Recommended Intel i7 3 GHz or higher
Computer RAM	Minimum 4GB RAM Recommended 8GB RAM
Dedicated Graphics Card	Not required Recommended NVIDIA GTX 970
Monitor Resolution	1920x1080, 1680x1050, 1600x1024, 1600x900
Network Bandwidth	1 Gbps or higher

TABLE SPECIFICATIONS

Width	37.4 inches (950mm)
Depth	23.6 inches (600mm)
Height (Adjustable)	27.4-35.2 inches (695-995mm)

Networking Solutions

- **NetVue Pro** allows viewing and modification of images from a single Optovue OCT system on up to eight review stations. In addition, with NetVue Pro, new patient scans may be captured while existing scans are reviewed.
- **NetVue Enterprise** enables viewing and modification of images from multiple Optovue OCT systems on up to 20 review stations.
- **NetVue Web** is a browser-based solution that brings Optovue OCT images to a smart phone, tablet or PC.
- **DICOM.** All Optovue products are DICOM-compliant, featuring C-store and Modality Worklist. Optovue products have successfully interfaced with several PACS, including government systems such as the Vista Imaging System.



The **Avanti Widefield OCT platform** with **AngioVue OCTA** is available in a variety of configurations to meet the specific needs of your practice.

	Avanti Widefield OCT	AngioVue Comprehensive	AngioVue Retina	AngioVue Essential
Retina OCT	•	•	•	•
RNFL / Disc OCT	•	•		•
Anterior Seg OCT	•	•		•
Wellness	•	•		•
Retina OCTA		•	•	•
Optic Disc OCTA		•	•	
OCTA Overview Report		•	•	•
OCTA Working Page		•	•	
Live Tracking	•	•	•	•

Innovating Technologies that Transform the Lives of Patients and Clinicians Around the World

First and Foremost in the Advancement of OCT Technology

From the first SD-OCT image generated to our transformative OCTA technology, Optovue technologies provide clinicians with information so new, they demand a different approach to treatment decision algorithms. Optovue’s long history of “firsts” demonstrates that innovation is the backbone of our scientific heritage. We committed to furthering OCT image quality, efficiency and clinical applications.

Our Bold Vision

Over the past decade, and in collaboration with industry-leading ophthalmic specialists, we have pursued a bold and single-minded vision to offer advanced eye care technology to patients around the world by expanding the frontiers of OCT innovation, and significantly improving accessibility to OCT technology to make it a standard part of every eye exam.

Over 10,000 Systems in 10 Years

Since our founding, 10 years ago, we have installed over 10,000 products in many different countries. Headquartered in Fremont, Calif., we employ a passionate and talented team dedicated to the development, manufacture and sale of OCT and OCTA systems.

Find your local Optovue distributor:
optovue.com/contact



OPTOVUE EXCLUSIVES:

- Focal loss volume (FLV) analysis for glaucoma
- Total Cornea Power (TCP) for anterior segment surgery
- Split-spectrum technology (SSADA) on OCTA scans
- 3D Projection Artifact Removal
- DualTrac Motion Correction Technology

Optovue extends sincere appreciation to Adil El Maftouhi OD (Centre Rabelais, Lyon, France) for the use of his images throughout this brochure. Unless noted, all images are courtesy of Adil El Maftouhi.



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300-53141 Rev. A

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