

optovue iSeries

Engineered for top  
OCT performance



  
**VISIONIX**

 OPTOVUE | **briot** | WECO



# Improving OCT performance with ease

When an OCT design puts user experience first, it becomes simple to learn and easy to use. iSeries systems are ideal for eye care providers (ECPs) who need advanced OCT technology. The system software is very intuitive, with helpful graphics and timely prompts that walk you through an exam. Most users are up to speed in a day.

Another secret to the Optovue iSeries' simplicity is completeness, the capacity for one OCT to deliver the full spectrum of applications from cornea to retina. Add it all up and you arrive at an unparalleled combination of ease and clinical utility that makes the Optovue iSeries the best value in OCT - which spells optimum eye care for your patients.

The Optovue iSeries systems are fully featured and deliver many exclusive Optovue capabilities such as ganglion cell complex (GCC) analysis with focal loss volume (FLV%) and global loss volume (GLV%) metrics, and the Optovue iWellness Exam.

---

Courtesy of Adil El Maftouhi, OD (Centre Rabelais, Lyon, France)  
and Dr Anagnostaki Katerina, Rafina, Greece

# The complete range



## optovue iVue80

The benchmark for eye care practitioners seeking unmatched OCT performance and value-with capabilities you would expect to cost far more.

**optovue iWellness** helps you grow and differentiate your eye care practice, while also providing a new revenue stream.



## optovue iFusion80

Combines the advanced OCT capabilities of Optovue iVue 80 with a high-performance fundus camera, the Optovue iCam 12, that delivers exceptional posterior and anterior segment images.



## optovue iScan80

The fully-integrated OCT that practically runs itself-setting the standard for simplicity in OCT.

Optovue iScan 80 performs all of the focus and alignment operations while talking the patient through the entire exam - available in twelve languages.

# optovue iScan80

## The OCT that practically runs itself

Introducing the next-generation Optovue iScan - where advanced scanning is realized in a system so user-friendly it even talks to patients. Meet **Optovue iScan 80**, the high-speed 80kHz OCT that sets the standard for efficiency - perfect for ECPs seeking an affordable and versatile OCT system. It's ideal for practices with limited staff since **Optovue iScan 80** delivers consistent scan acquisition with minimal training - and vocally guides patients through an entire exam in any of 12 languages. The new **Optovue iScan 80** delivers the following advancements:

- 80,000 A-scans per second - 3x faster than the original Optovue iScan OCT
- Simplified scan acquisition
- New reports and wider field of view

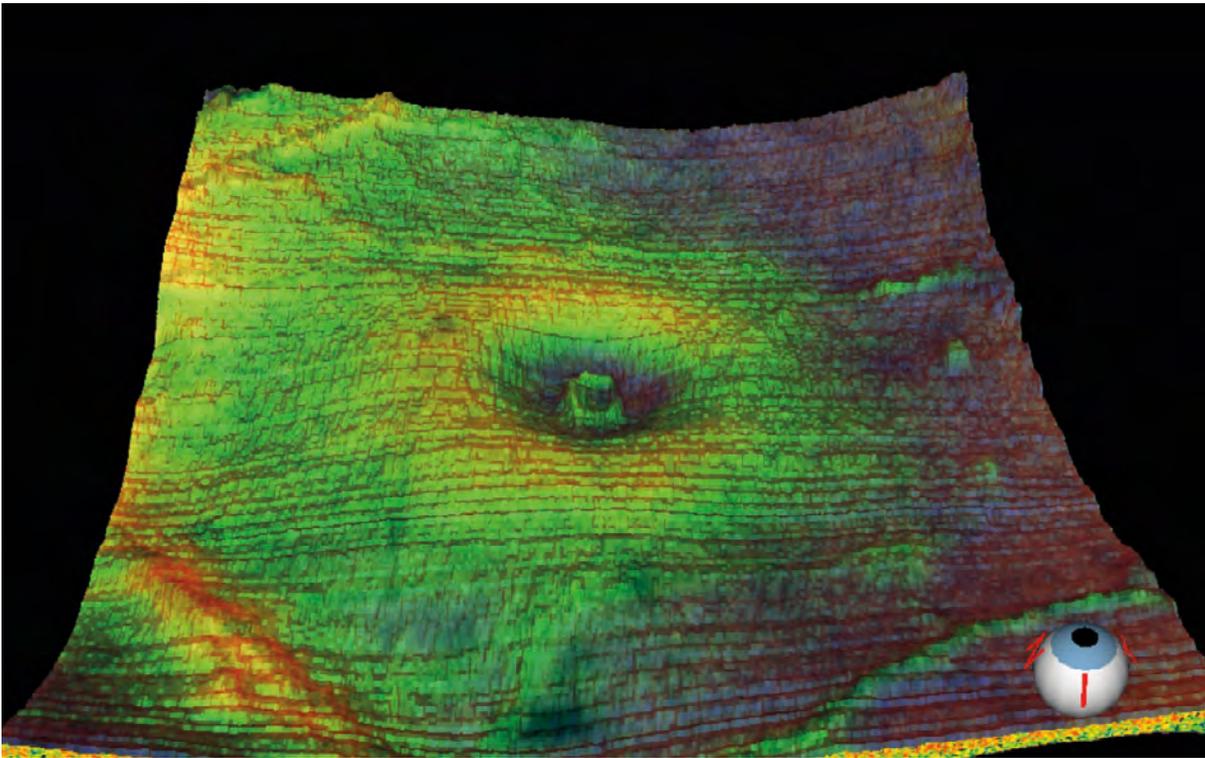
Compact and portable, **Optovue iScan 80's** streamlined design integrates the operator interface, display, patient interface and scan head into one console that can be moved from station to station and mounted on any tabletop. Then comes the easy part—plug in, switch on and start scanning.

## Optovue iScan 80 comprehensive includes:



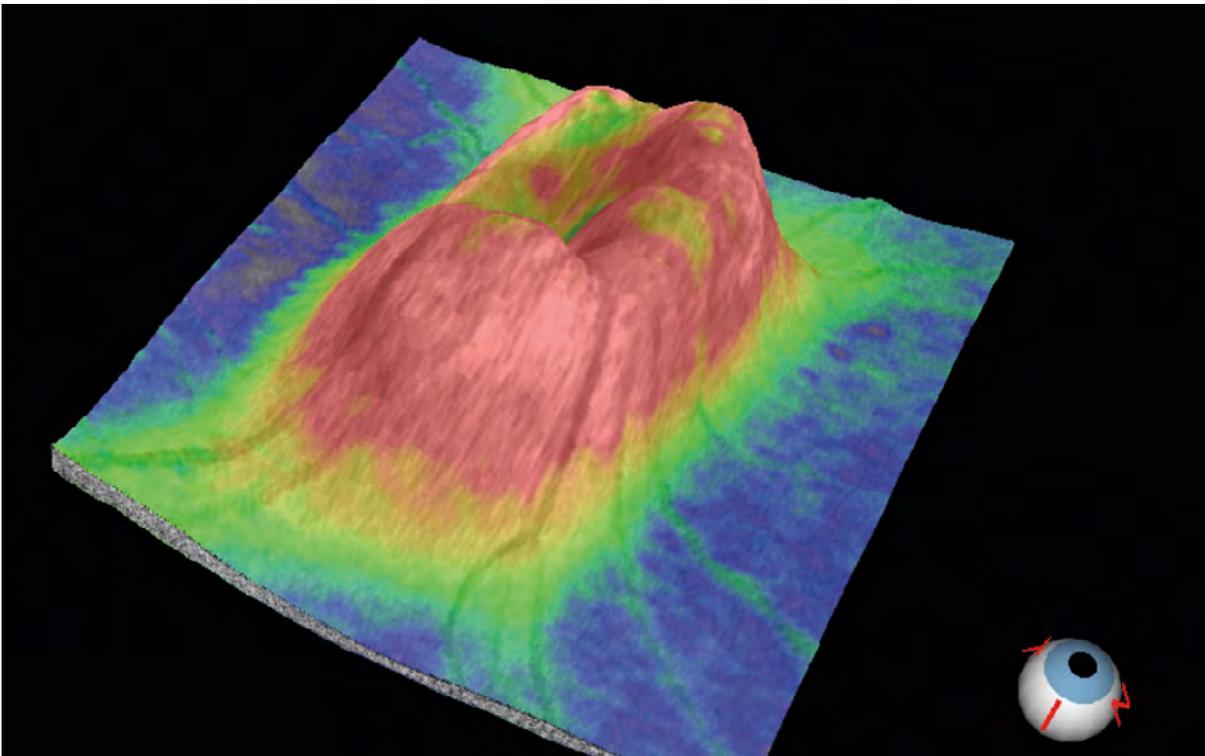
- OCT Optovue iWellness scan
- Retina mapping
- RFNL and GCC® trend analyses
- FLV% and GLV% analysis to increase GCC sensitivity and specificity
- High-density 3D retinal imaging
- In-depth 3D optic nerve head analysis
- Cornea Advance anterior segment imaging and measurement

## 3D RETINA



### Retinal analysis and 3D imaging

Retinal imaging capabilities include retina mapping with normative comparison and a 3D retina scan with en face presentation, which enables virtual retinal dissection by displaying three different reference planes: ILM, IPL and RPE.



### In-depth 3D optic disc analysis

3D Disc scans are used as the reference to calculate and draw the outline of the optic disc to be used as the baseline for RNFL analysis. The 3D display also allows you to finely assess the morphology of the optic nerve head.

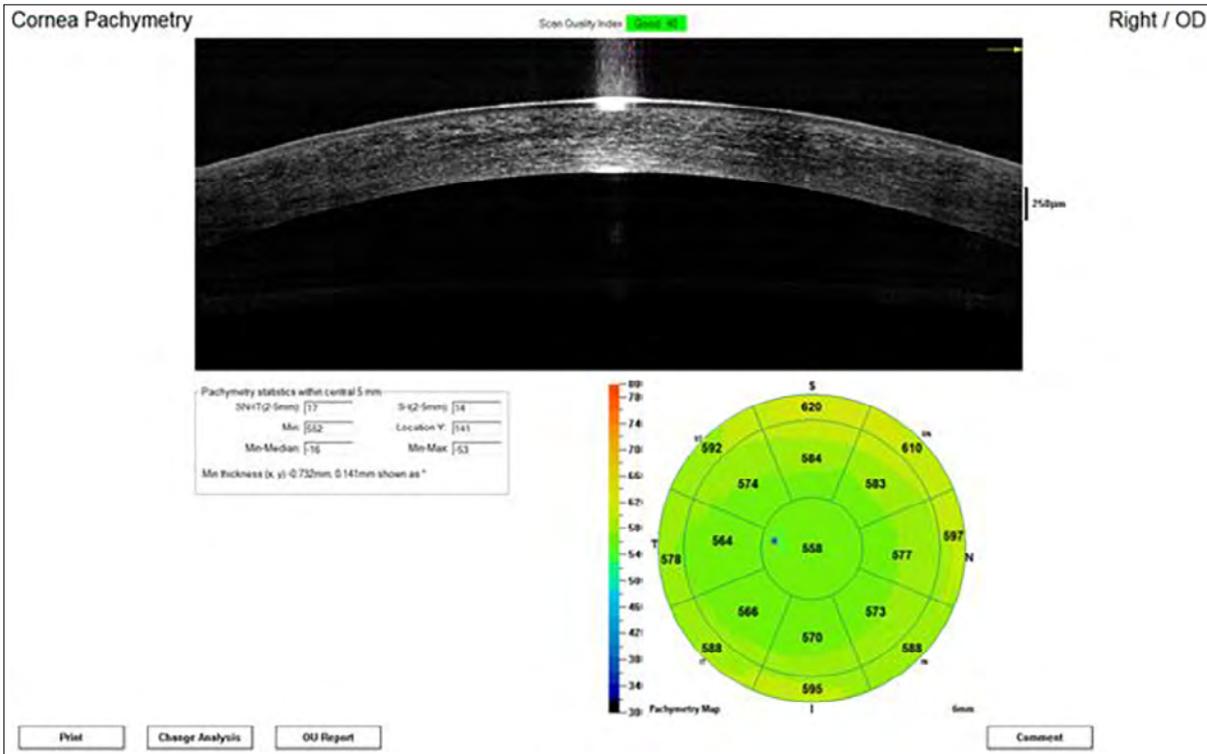
## 12MM RADIAL SCAN



### Enhanced Depth

12mm widefield scan with enhanced depth imaging mode provides high resolution views.

## CORNEA PACHYMETRY



### Additional capabilities

All Optovue iScan 80 systems feature Optovue's exclusive Optovue iWellness Exam (see pages 15 and 16).



**optovue iFusion80 (iVue80 +**

## optovue iVue80

### **HIGH-SPEED 80KHZ OCT + iCam 12 FUNDUS CAMERA OPTION**

**80,000 A-scans per second - 3x faster than the original Optovue iVue OCT**  
improved efficiency and enhanced image quality

#### **Simplified scan acquisition**

real-time en-face imaging displays a 12x9mm view of the retina during acquisition to assist operator in scanning the desired location

#### **New reports and wider field of view**

enhanced capabilities make Optovue iVue 80 one of the best values in OCT technology today

#### **High-resolution fundus and external photography**

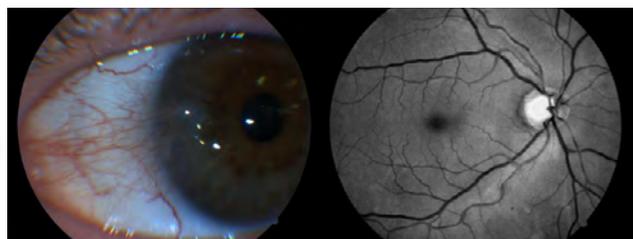
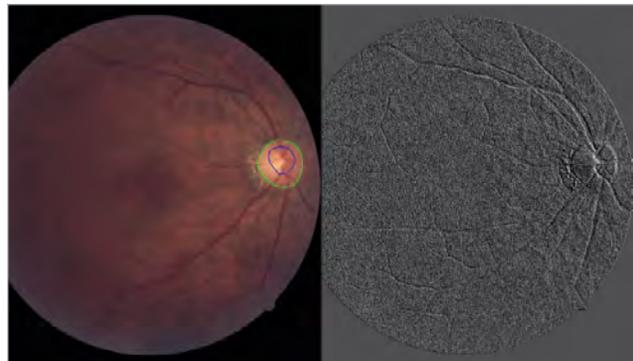
add iCam 12 to Optovue iVue 80 to bring detailed documentation and additional return on your investment



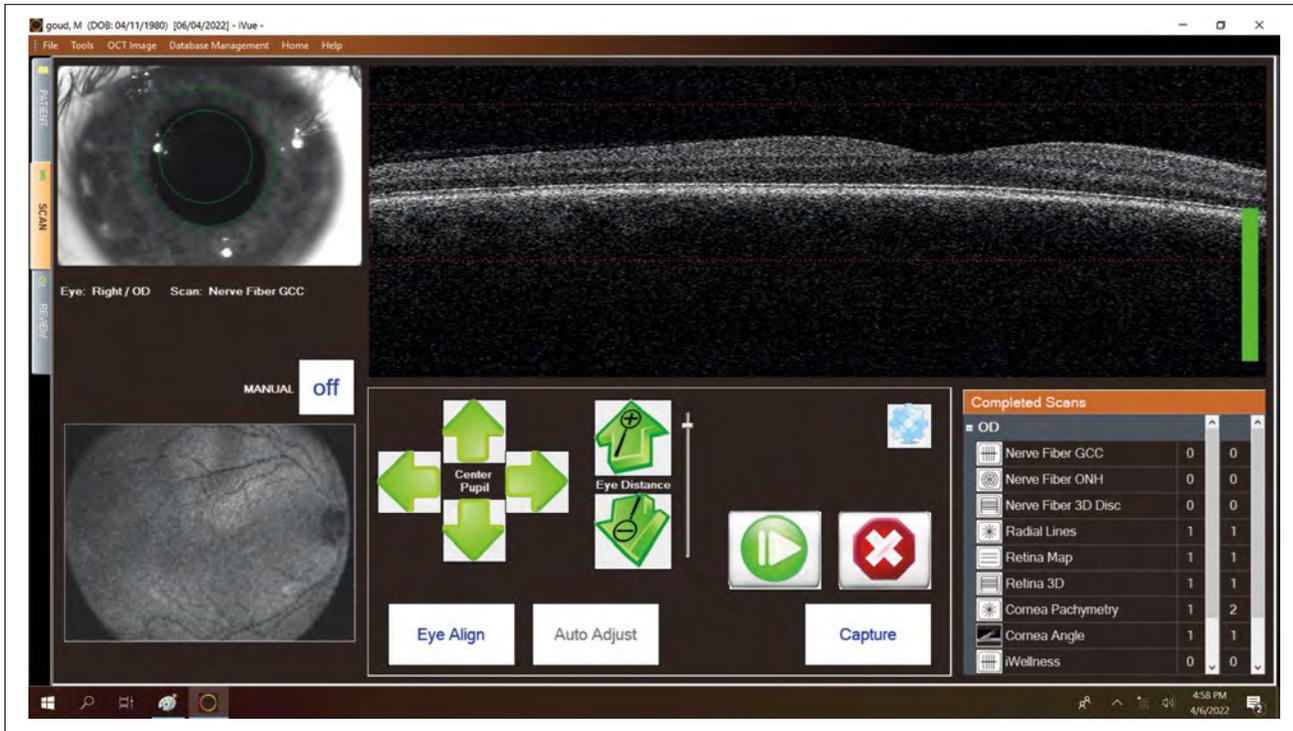
# optovue iCam12

## NON-MYDRIATIC FUNDUS CAMERA

- 45° color and red-free imaging
- 12-megapixel camera for high-fidelity color saturation
- Multi-visit view provides visit-to-visit comparison
- Three-color display offers varying perspectives of the fundus while the emboss feature creates a 3D-like view for new insights into retinal health
- Overlay feature to superimpose OCT images onto the fundus photo
- External color photography documents conditions of the ocular surface

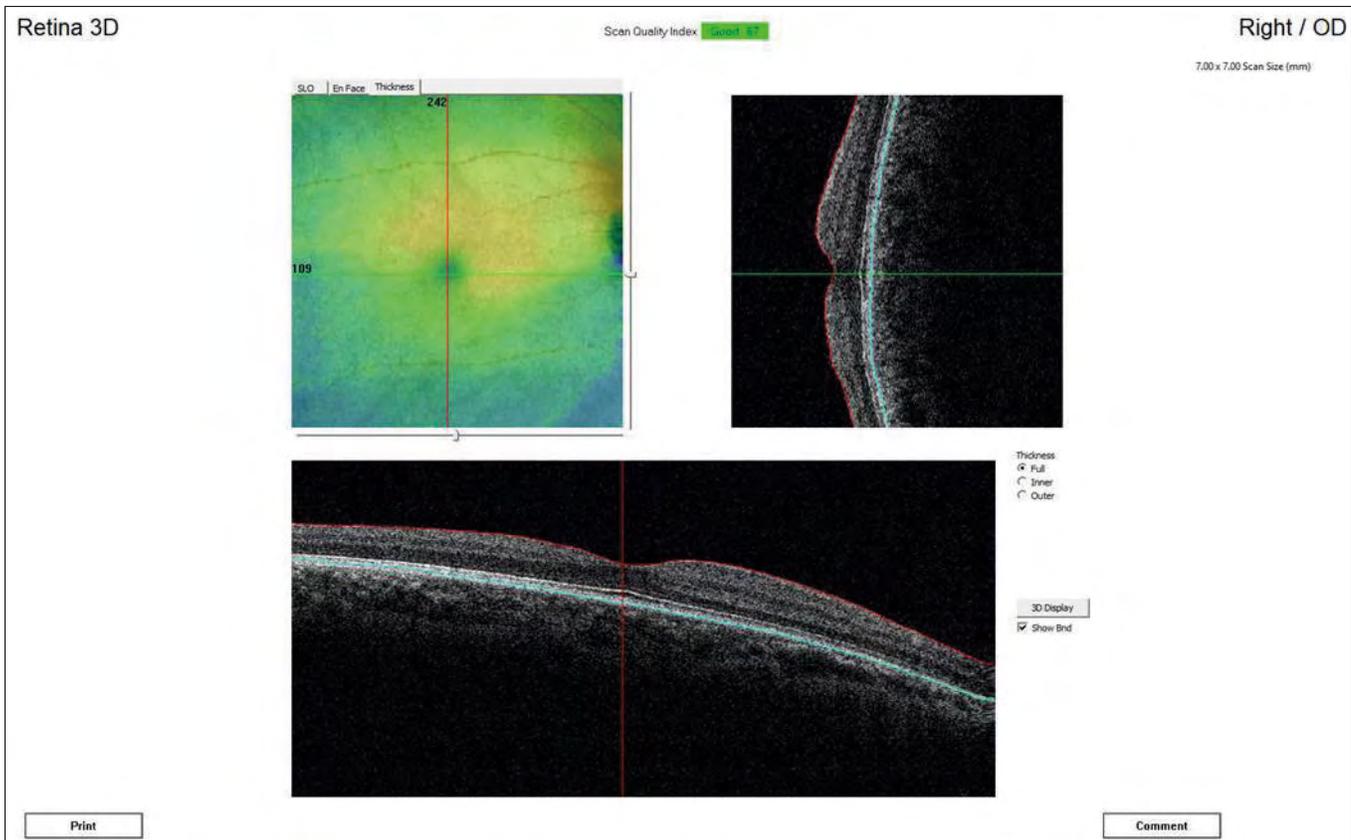


# optovue iVue80 retina reports



## REAL-TIME EN FACE

Real-time en face display provides a 12x9mm view of the retina during scan acquisition to assist the operator in scanning the desired location.

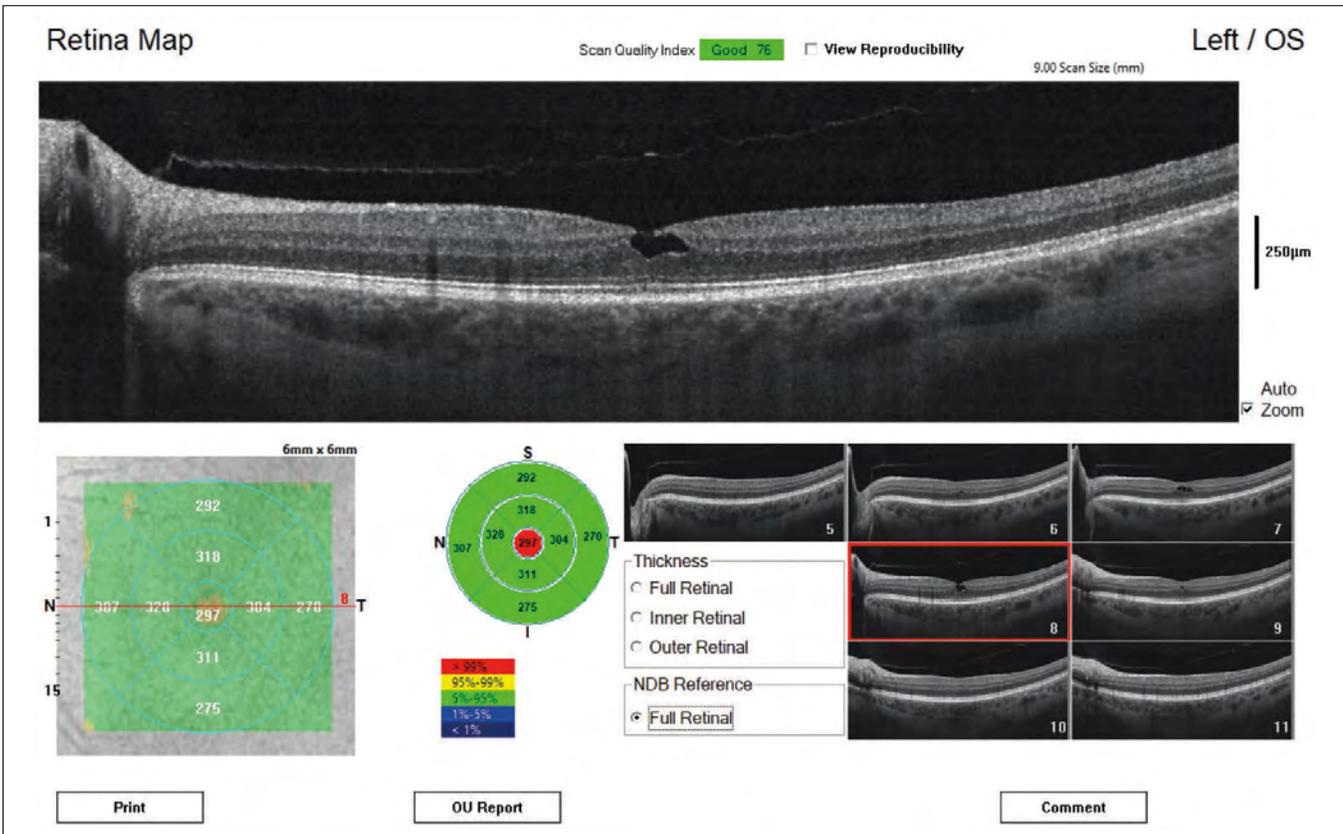


## 3D RETINA CUBE

7x7mm cube scan provides visualization of 201 raster lines to enable in-depth analysis of retinal structures.

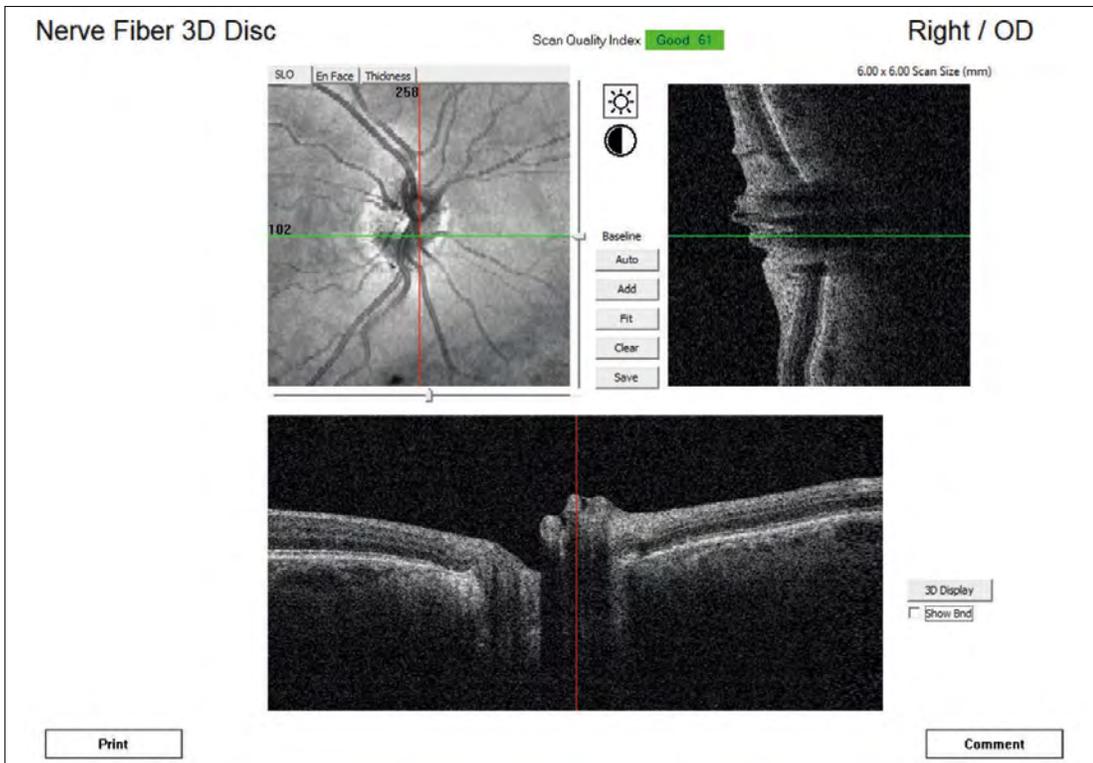


**RADIAL LINE**  
Six 12mm radial lines provide multiple views of the retina.



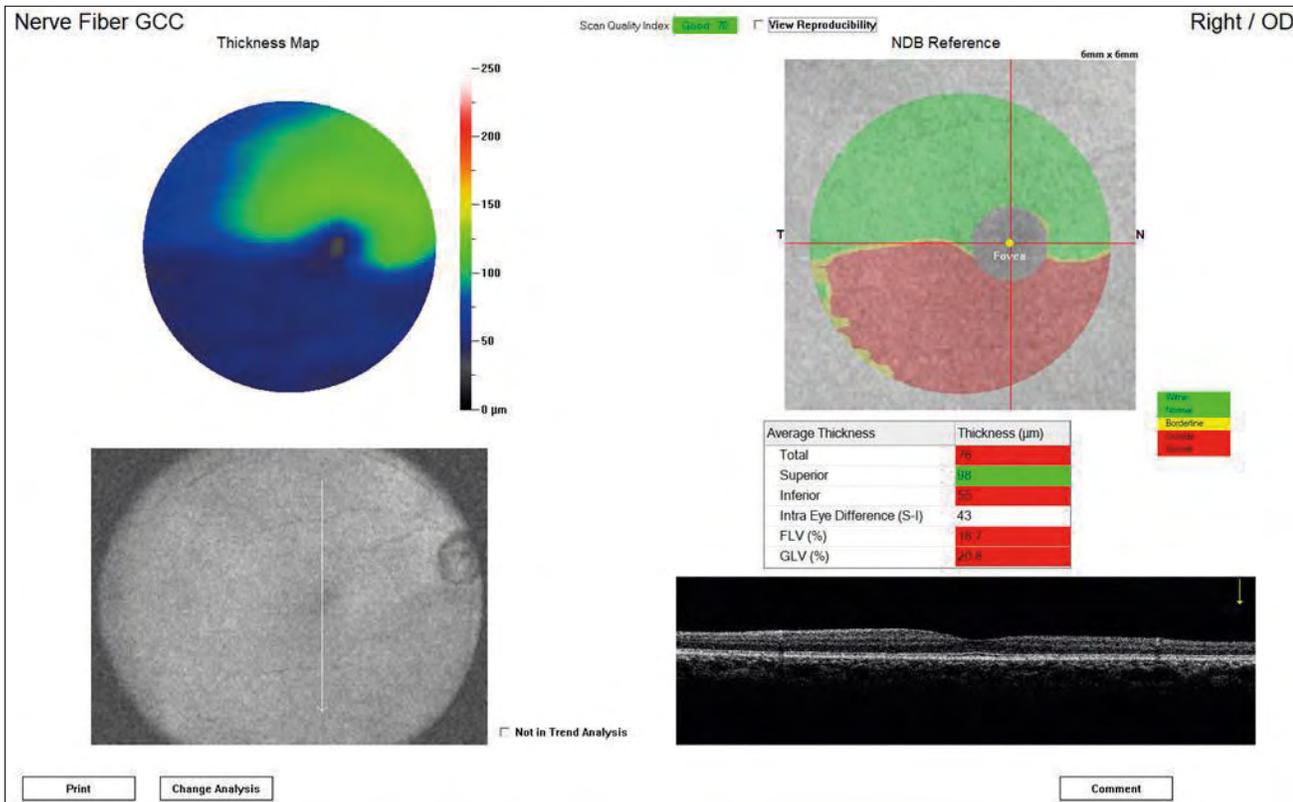
**RETINA MAP**  
Visualize a 9x5mm area of the retina with an ETDRS reference database comparison to quickly identify areas of increased or decreased thickness.

# optovue iVue80 glaucoma reports



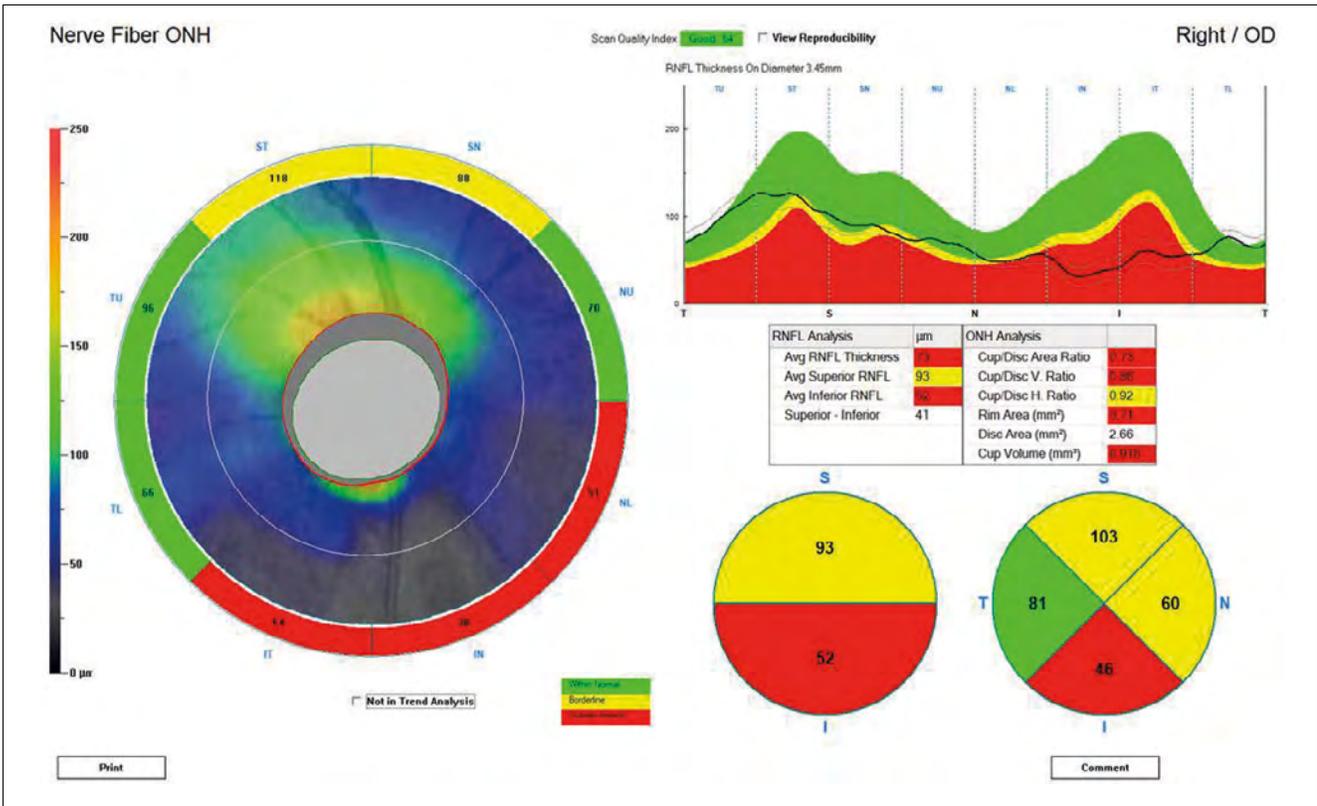
## GLAUCOMA 3D DISC CUBE REPORT

6x6mm cube scan provides visualization of 201 raster lines to enable in-depth analysis of optic disc structures.



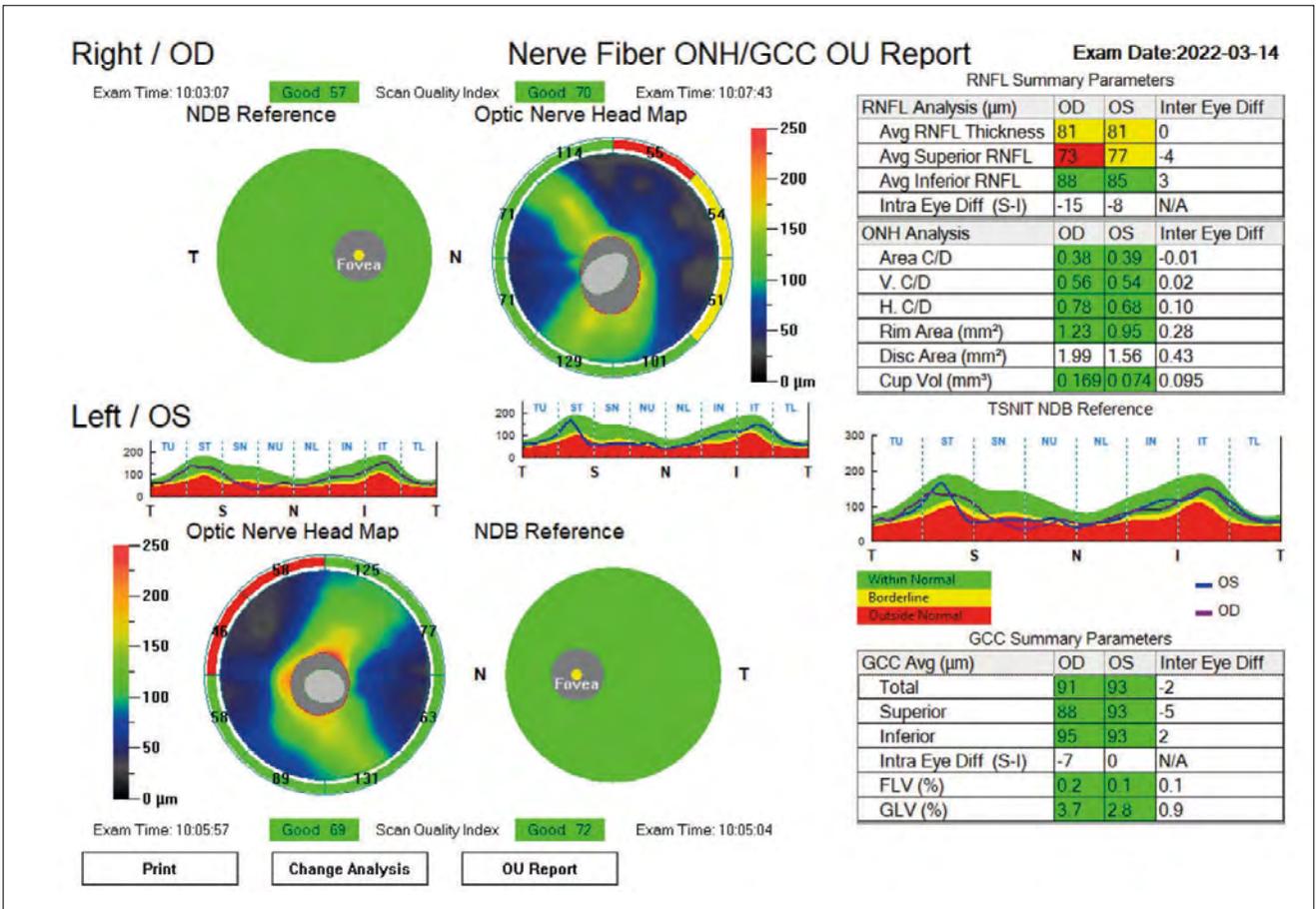
## GANGLION CELL COMPLEX (GCC) ANALYSIS

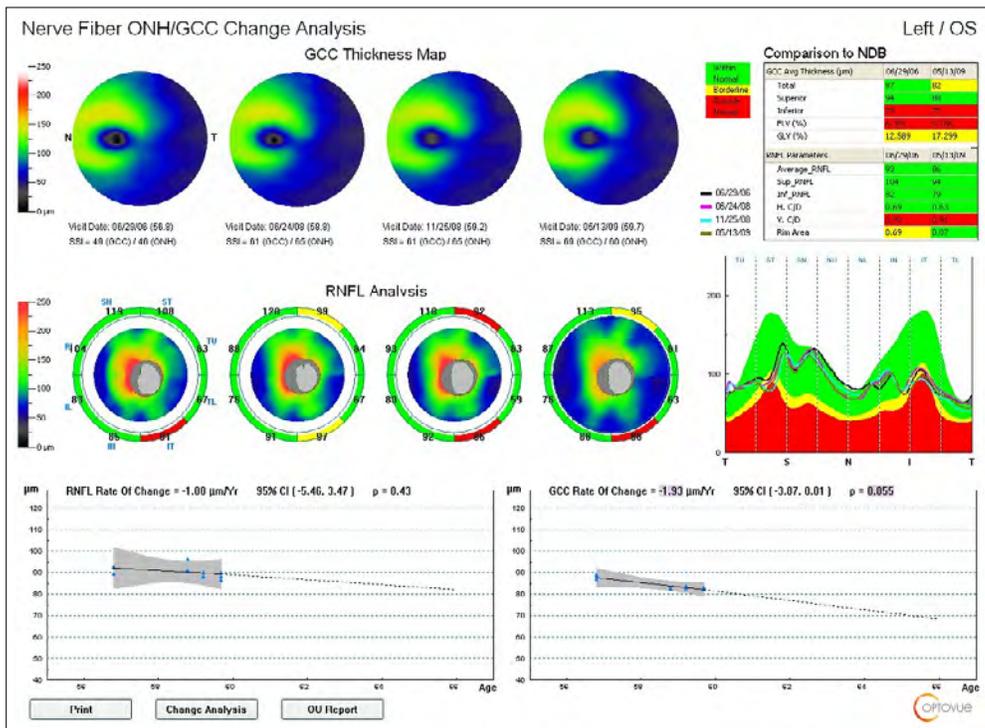
The GCC thickness map allows identification and measurement of ganglion cell loss in glaucoma and Optovue's exclusive Focal Loss Volume metric (FLV%) is the single best predictor of conversion to glaucoma.<sup>1</sup>



## NERVE FIBER LAYER ANALYSIS

The nerve fiber thickness map allows visualization and quantification of RNFL thinning in glaucoma.



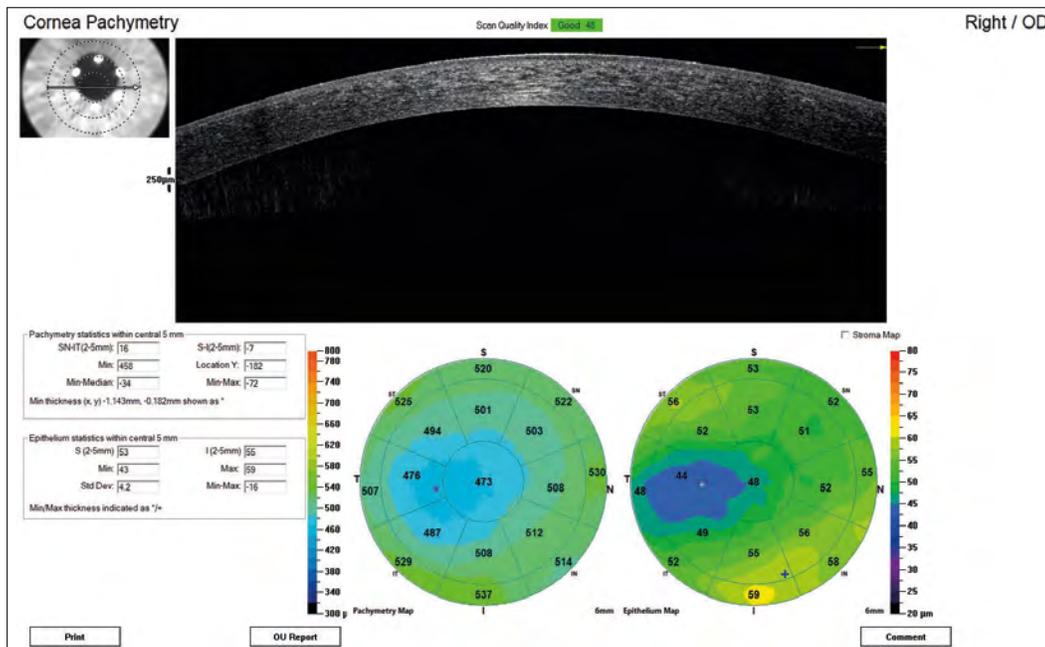


## COMPREHENSIVE REPORTS

Optovue iVue 80's GCC and RNFL analysis reports include single eye and OU reports, change analysis for visit-to-visit comparison, trend analysis to assess change over time and combo reports that display both GCC and RNFL thickness profiles for comprehensive analysis.

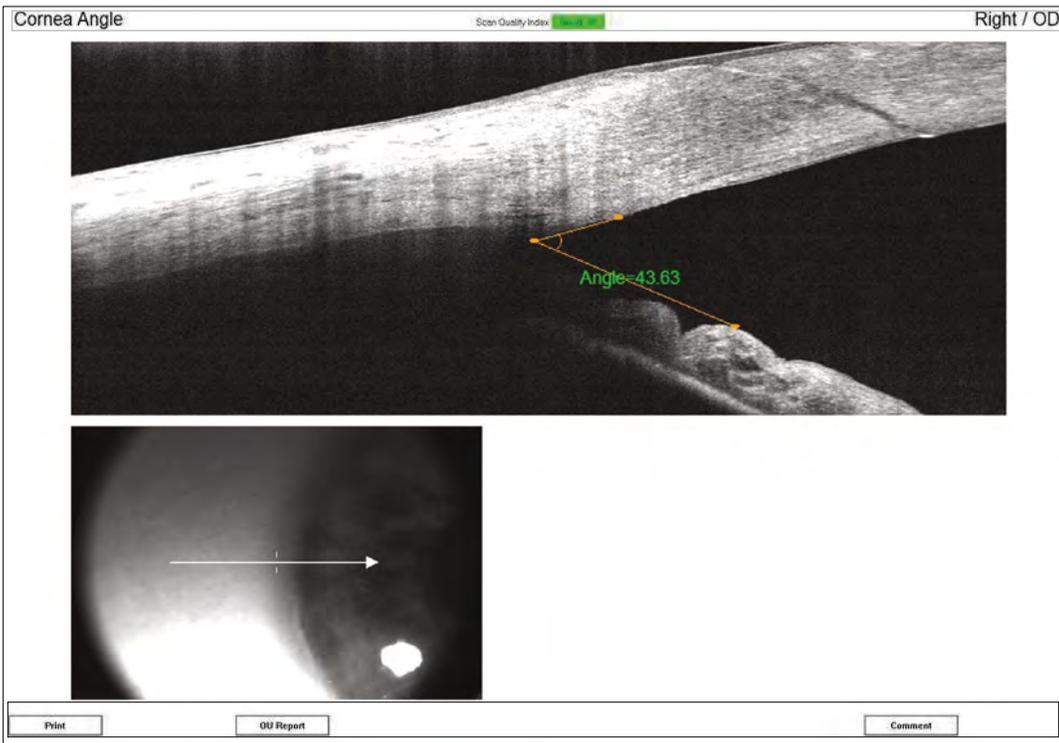
1. Zhang X, Loewen N, Tan O, Greenfield D, Schuman J, Varma R, Huang D. Predicting Development of Glaucomatous Visual Field Conversion Using Baseline Fourier-Domain Optical Coherence Tomography. Am J Ophthalmol. 2016 Mar; 163:29-37.

# optovue iVue80 anterior segment reports



## PACHYMETRY AND EPITHELIAL THICKNESS MAPPING (EPITHELIAL MAPPING AVAILABLE ON OPTOVUE iVUE 80 AND iFUSION 80 ONLY)

Visualize and quantify 6mm of epithelial, stromal and total corneal thickness to identify areas of thickening or thinning related to dry eye disease, keratoconus, or previous refractive surgery. The Change Analysis report measures changes in thickness between visits.

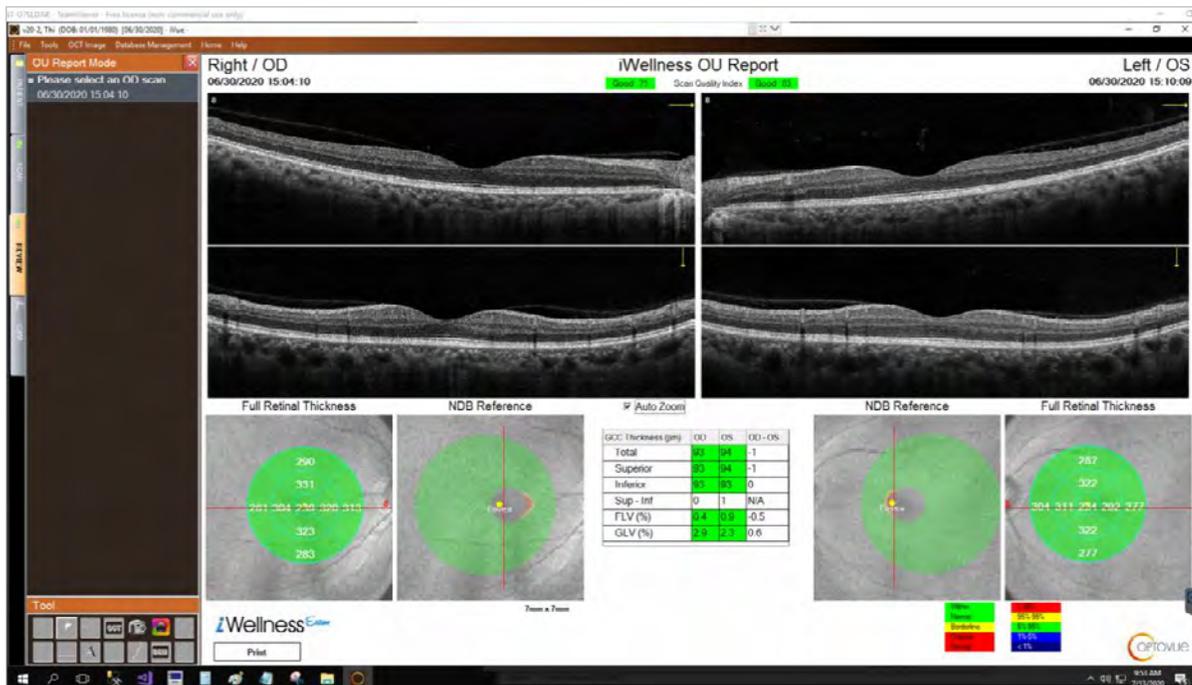


### ANGLE SCAN

Assess angle structure with a quick, non-contact scan and quantify angle parameters with easy-to-use measurement tools.

# optovue iWellness protocol

The Optovue iWellness protocol is a valuable assessment tool that can reveal the need for more extensive imaging. It also streamlines the exam process by quickly confirming normal or else aiding in more efficient diagnosis of pathology. In addition, wellness programs improve patient involvement and retention for practice differentiation and growth.



Optovue iWellness generates a single, comprehensive report to promote better overall eye health. The report includes a 12x9mm structural scan that optimizes metrics on retinal thickness and ganglion cell thickness to the superior/inferior arches. High-resolution B-scans provide excellent visualization of retinal structures.

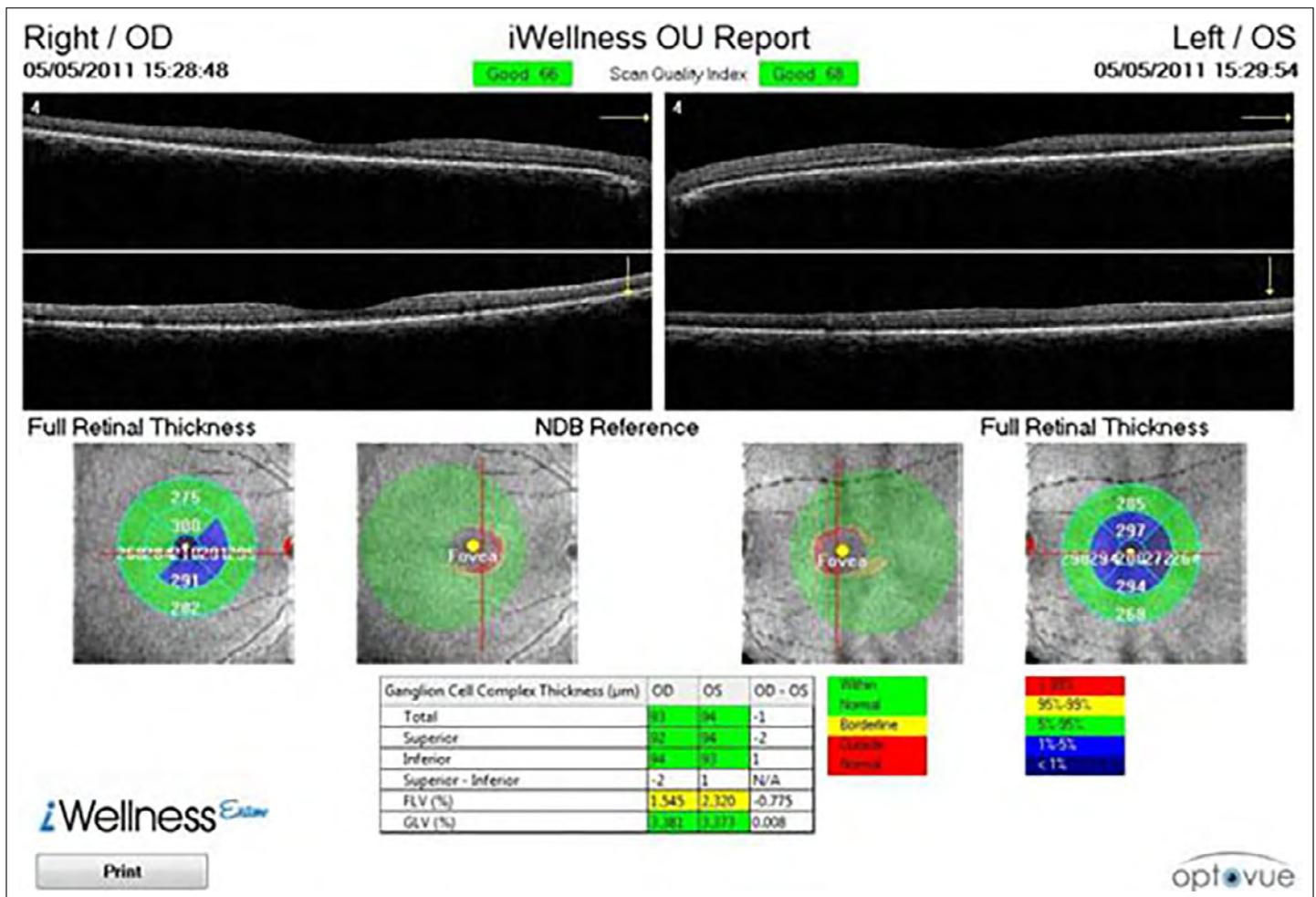
# optovue iWellness protocol

## Optovue iWellness BENEFITS PATIENTS

The Optovue iWellness program benefits patients by helping them become more involved in their own eye health. The scanning process is simple and quick, and each patient receives comprehensive, personalized eye health information in an easy-to-understand report.

## Optovue iWellness BENEFITS EYE CARE PROVIDERS

Optovue iWellness benefits ECPs by providing a valuable assessment tool that can reveal the need for more extensive imaging. It also streamlines the exam process by quickly confirming normal-or helping you more efficiently diagnose pathology. Optovue's current Optovue iWellness users have affirmed that the Optovue iWellness scan improves patient involvement, loyalty and retention. This helps you grow and differentiate your eye care practice, while also providing a new revenue stream.



# Technical specifications

	optovue iVue80	optovue iScan80
<b>Scanner</b>		
OCT Image 80,000 A-scans/second	•	•
Depth Resolution (in tissue) 5.0 $\mu\text{m}$	•	•
Transverse Resolution 15 $\mu\text{m}$ (retina)	•	•
<b>Scan range</b>		
Depth 2 - 2.3mm (retina)	•	•
Scan Beam Wavelength 840nm (+/-10nm)	•	•
<b>OCT Fundus image face</b>		
FOV	12mm(H) x 9mm(V)	12mm(H) x 9mm(V)
Minimum Pupil Diameter	2mm	2mm
External Image (Live IR) FOV	FOV 13mm x 9mm	13mm x 8mm
<b>Dimensions</b>		
Dimensions (in.)	(W) 19.1 x (L) 34.4 x (H) 263-343	(W) 19.81 x (L) 15.83 x (H) 17.82
Weight (lb.)	158lbs	43lbs
<b>Computer/Networking Specifications</b>		
Operating System	Win 10 - 64 bit	Win 10 - 64 bit
Processor Speed	Mini PC-CPU: Intel NUC Kit 10th Generation Intel Core Processors	Intel® Celeron (i7-8700T 2.40 GHz)
Network Bandwidth	1 Gbps or higher	1 Gbps or higher
Computer RAM	4 GB or higher	16 GB or higher
Monitor Resolution	1920 x 1080 at 32-bit	24 in.1920x1080 60Hz
DICOM compatible	•	•

## Additional Technical specifications

### optovue iCam12

<b>Camera</b>	
Field Angle	45°
Image	12 Million Pixels
Pupil Diameter	$\geq 4\text{mm}$
Illumination during alignment to Patient's Eye	NIR LED
Flash for Retina Image Capture	White LED
Cornea Image	Illumination from 3 external white LED sources in steady state mode
Total Focus Diopter Adjustment Range	-35D to +30D
Z-ranging (Working Distance)	-25mm
Fixation	6 Internal & one Adjustable External
Focus Adjustment	Manual

# Optovue OCT/OCT-A comparison chart

MODEL FEATURE COMPARISON	Optovue Solix	Optovue Solix Essential	Optovue iFusion 80	Optovue iVue 80	Optovue iScan 80
<b>Technology</b>					
Transverse Resolution (15 µm)	•	•	•	•	•
Scan Speed	120kHz	120kHz	80kHz	80kHz	80kHz
Axial Resolution (5 µm)	•	•	•	•	•
Optovue iWellness scan	•	•	•	•	•
Optovue AngioVue single scan for structural & vascular OCT	•	•			
Optovue AngioVue OCT-A with enhanced metrics	•	•			
Multi-volume averaging, SSADA	•	•			
3D PAR 2.0	•	•			
DualTrac – Motion Correction Technology (MCT)	•	•			
Pixel x Pixel deviation mapping	•	•			
Optovue AngioWellness scan	•	•			
Fully Automated with voice guided technology					•
<b>Anterior Segment</b>					
Anterior Radial	10 mm	10 mm	6 mm	6 mm	6 mm
Pachymetry	10 mm	10 mm	6 mm	6 mm	6 mm
Epithelial, stromal, and corneal, thickness mapping	•	•	•	•	
Pachymetry, Epithelial Thickness, and Stroma Trend Analysis	•	•			
Side-by-side pachymetry, epithelial thickness, and stroma maps	•	•			
Angle scan and analysis with 4-up display	•	•	•	•	•
External color camera	•		•		
FullRange Anterior segment 18 x 6.25mm	•				
FullRange Anterior Chamber auto caliper placement	•				
Exterior IR lid imaging	•				
*Topography (anterior and posterior surface of cornea, tomography)	•	•			
*Zernike Values with High order and low order aberrations	•	•			

\*Available on optional Topography Module only

# Optovue OCT/OCT-A comparison chart (continued)

MODEL FEATURE COMPARISON	Optovue Solix	Optovue Solix Essential	Optovue iFusion 80	Optovue iVue 80	Optovue iScan 80
<b>Glaucoma</b>					
3D Disc Cube	•	•	•	•	•
GCC Analysis	•	•	•	•	•
Nerve Fiber Layer Analysis	•	•	•	•	•
Comprehensive single eye and OU Reports	•	•	•	•	•
RPC density map and values	•	•			
100 µm RNFL circle at 3.45mm	•	•			
3 Times Repeatability and Reproducibility (R&R)	•	•			
<b>Retina</b>					
EnFace	12x12 mm	12x12 mm	7x7 mm	7x7 mm	7x7 mm
3D Retina Cube	•	•	•	•	•
Radial Line	•	•	•	•	•
512x512 OCT-A scans	•	•			
3D vessel rendering	•	•			
AngioVue QuadMontage	•	•			
Widefield Retinal Thickness Map (OCT-A 12 x 12mm, 9 x 9mm)	•	•			
Fundus Camera	•		•		
FullRange Retinal scan 16 x 6.25mm	•				



**VISIONIX US**

160 Eisenhower Lane North, Lombard, IL 60148  
Tel: US & Canada: +1 (800) 729-1959  
contact.us@visionix.com

[www.visionix.com/us](http://www.visionix.com/us)

This document is not contractual. ©Kosept - ©Photos: E.Bienvenu - ind10 - 03/22 -  
Features and specifications are subject to change without prior notice.

300-55126