

# iVue80 Specifications

## OCT SPECIFICATIONS

Scanner OCT Image	80,000 A-scan/second
Depth Resolution (in tissue)	5.0 µm
Traverse Resolution	15 µm (retina)
Scan Range Depth	2 - 2.3mm (retina)
Scan Beam Wavelength	840nm (+/-10nm)
OCT Fundus Image (En Face)	FOV 12mm(H) x 9mm(V)
Minimum Pupil Diameter	2.5mm
External Image (Live IR)	FOV 13mm x 9mm
Table Dimensions (in)	(W) 19.1 x (L) 34.4 x (H) 263-343

## NETWORKING SPECIFICATIONS

Operating System	Windows 7, 8 and 10; 64-bit OS compatible
Processor Speed	3.0 GHz; Intel Quad Core (desktop); Core 2 (laptop)
Network Bandwidth	1 Gbps or higher
Computer RAM	4 GB or higher
Monitor Resolution	1920 x 1080 at 32-bit

## About Optovue

### 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.

### Over 10,000 Systems in 10 Years

Since our founding 10 years ago, we have installed 15,000 systems around the globe. 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 at [optovue.com/contact](http://optovue.com/contact)

2800 Bayview Dr., Fremont, CA 94538 | phone 1.510.743.0985 | 300-54686



# iVue®80

High-Speed 80kHz OCT +  
Fundus Camera Option



# Introducing iVue®80

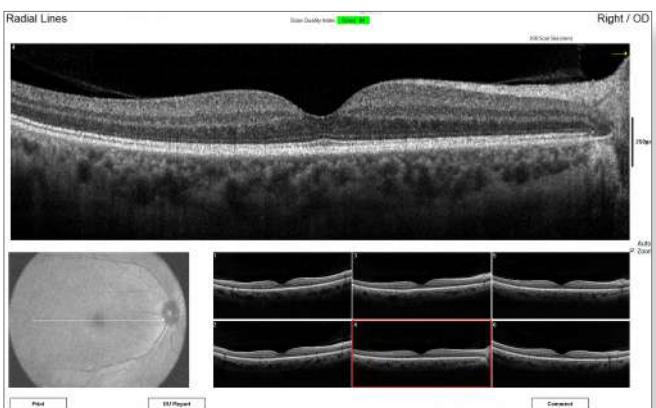


- 80,000 A-scans per second -  
3x faster than the original iVue OCT**  
improved efficiency and enhanced image quality
- Simplified scan acquisition**  
real-time en-face imaging displays a 12x9mm view of the retina during acquisition to assist operator in scanning the desired location
- New reports and wider field of view**  
enhanced capabilities make iVue80 one of the best values in OCT technology today
- High-resolution fundus and external photography**  
add iCam12 to iVue80 to bring additional return on your investment

## Retina

### Real-Time En Face

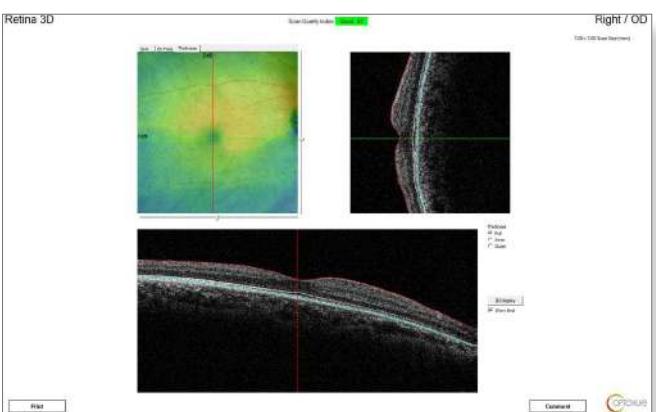
Real-time en face display provides a 12x9mm view of the retina during scan acquisition to assist the operator in scanning the desired location.



Real-Time En Face

### 3D Retina Cube

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



3D Retina Cube

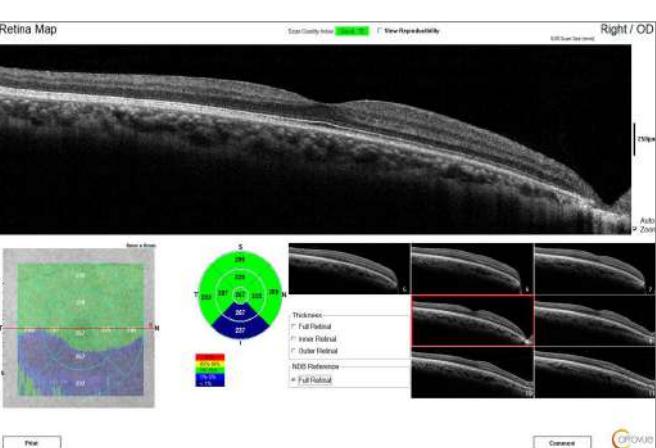
### Radial Line

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



Radial Line

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



Retina Map

# Glaucoma

## 3D Disc Cube

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>

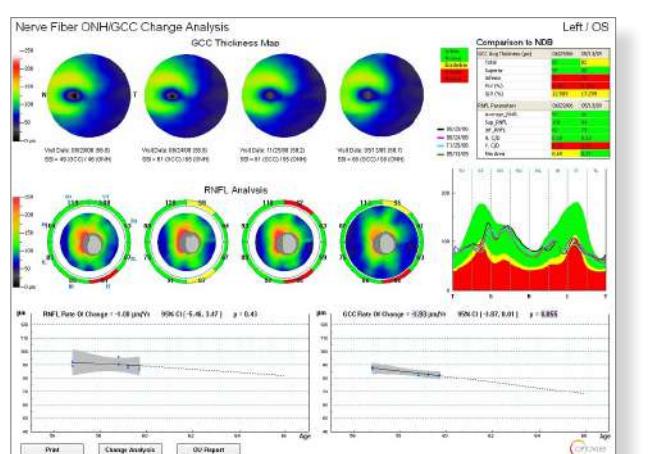
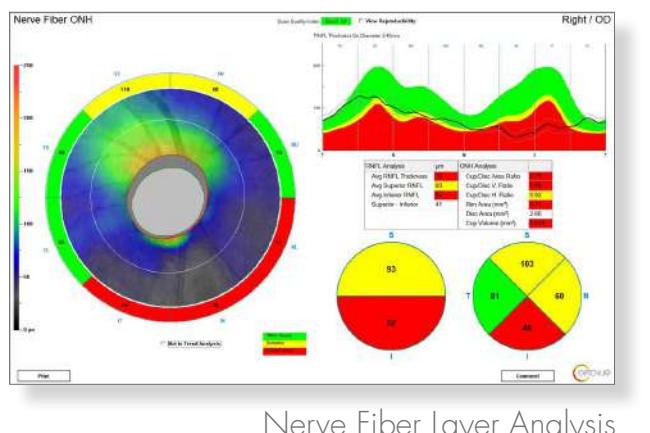
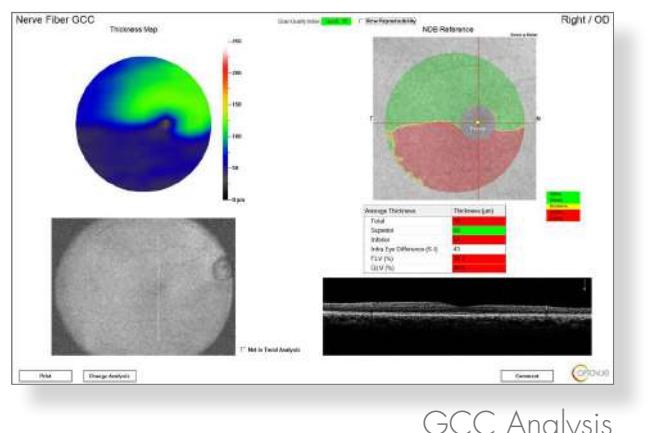
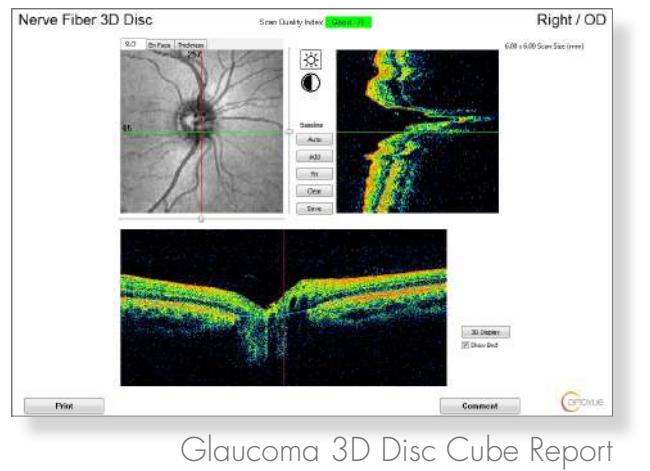
## Nerve Fiber Layer Analysis

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

## Comprehensive Reports

iVue80'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.

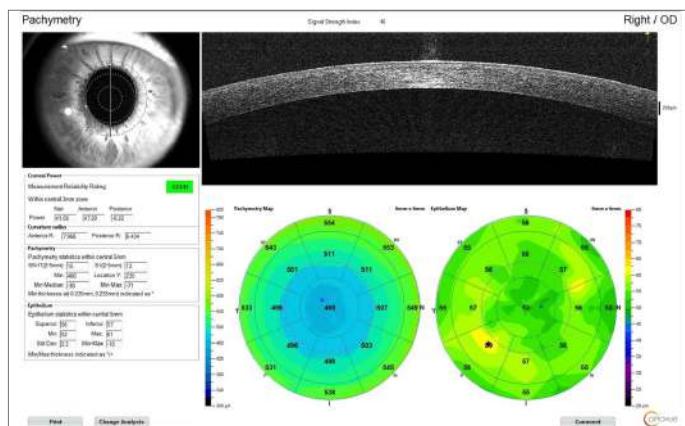


Trend Analysis

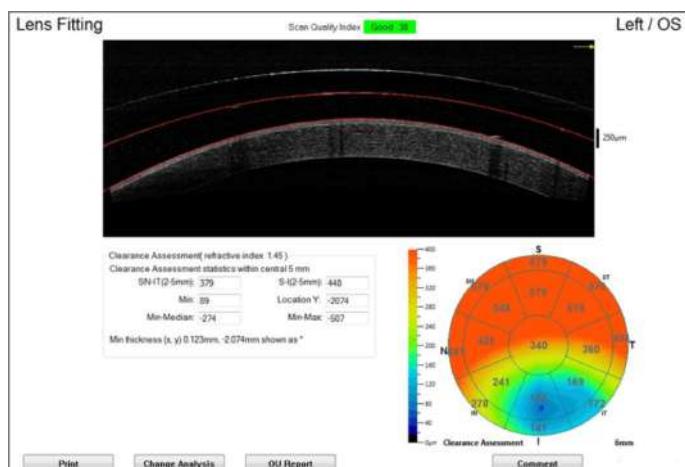
# Anterior Segment

## Pachymetry and Epithelial Thickness Mapping

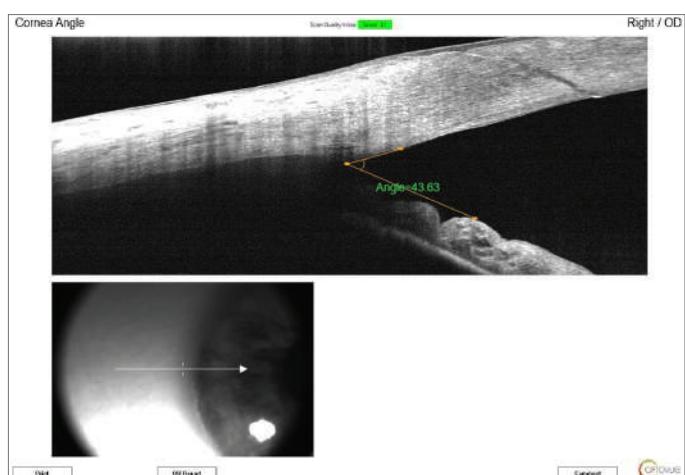
Visualize and quantify 6mm of epithelial, stromal and total corneal thickness to identify areas of thickening or thinning related to dry eye disease, keratoconus, or previous refractive surgery. The Change Analysis report measures changes in thickness between visits.



Pachymetry and ETM



Vault Map Report

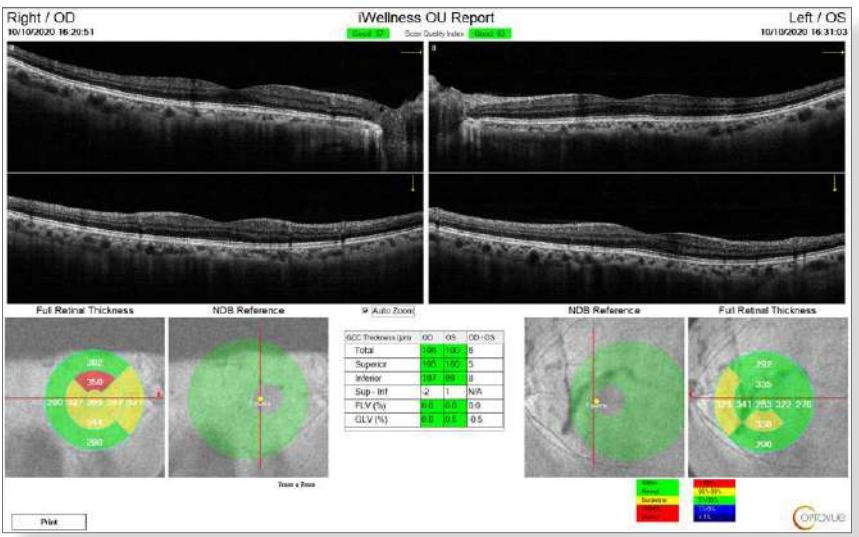


Angle Scan

## Wellness

The OCT Wellness scan is an Optovue exclusive that uses quick, easy OCT scan to promote better overall patient eye health. Its utility stems from a single, comprehensive report that shows:

- Retinal thickness and GCC thickness with normative comparison
- Symmetry analysis
- FLV% and GLV%, proprietary Optovue GCC metrics that provide important information to aid in glaucoma diagnosis and management
- Eight high-resolution B-scans



### OCT Wellness Benefits Patients

The OCT Wellness 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.

### OCT Wellness Benefits Eye Care Providers

OCT Wellness 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 Wellness users have affirmed that the OCT Wellness scan improves patient involvement, loyalty and retention. This helps you grow and differentiate your eye care practice, while also providing a new revenue stream.

## 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

