

optovue iseries

Engineered for  
your OCT success





# 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. Its system software is very intuitive, with helpful helpful graphics and timely prompts that walk you through an exam. Most users are up to speed in a day.

Another secret to the 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 iseries the best value in OCT - which spells optimum eye health for your patients.

The 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, the iWellnessExam® and the Cornea Advance module, which includes Vault Mapping for specialty lens fitting.

# 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 ifusion80**

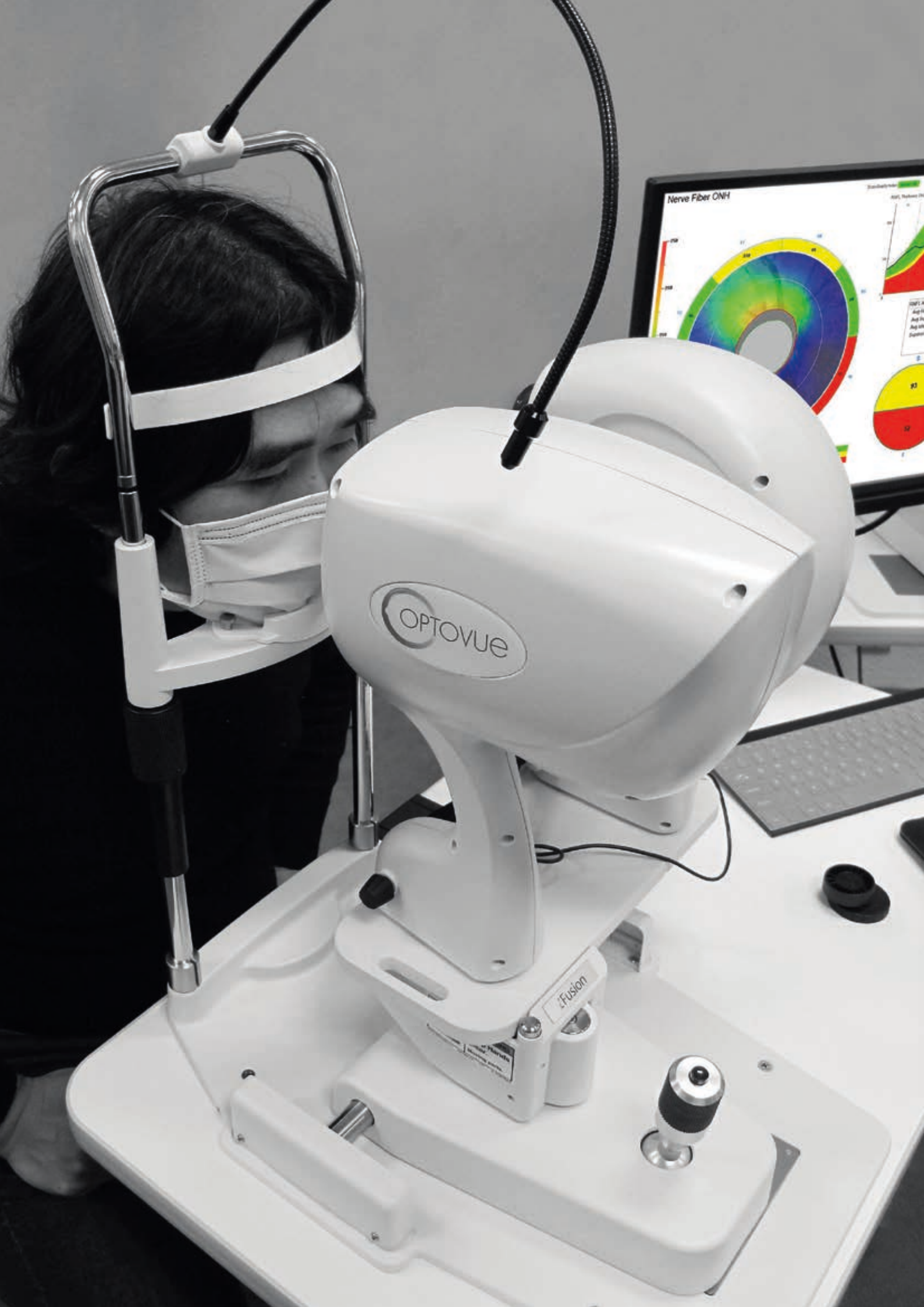
Combines the advanced OCT capabilities of ivue80 with a high-performance fundus camera icam12 that delivers exceptional posterior and anterior segment images.



## **optovue iscan80**

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

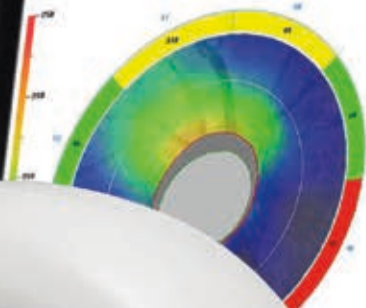
**optovue iwellness**  
helps you grow and differentiate your eye care practice, while also providing a new revenue stream.



OPTOVUE

Fusion

Nerve Fiber ONH



Stratification Index

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# Introducing **optovue iscan80®**

## The OCT that practically runs itself

Introducing the next-generation iScan - where advanced scanning is realized in a system so user-friendly it even talks to patients. Meet **iscan80®**, 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 **iscan80** delivers consistent scan acquisition with minimal training - and vocally guides patients through an entire exam in any of 12 languages. The new **iscan80** delivers the following advancements:

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

Compact and portable, **iscan80**'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.

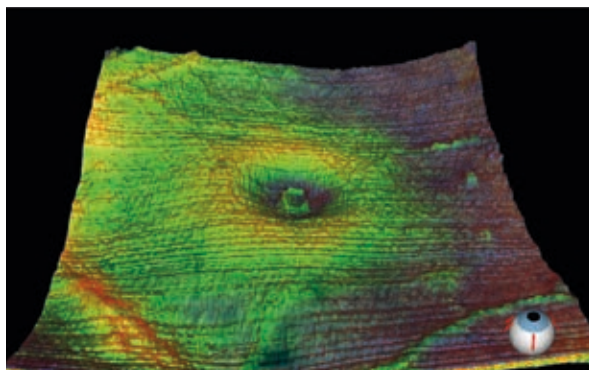
## iscan80 comprehensive includes:



- OCT 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

# iScan80 comprehensive report

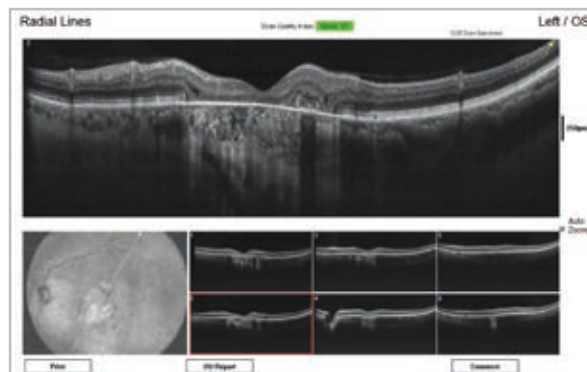
## 3D RETINA



### 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.

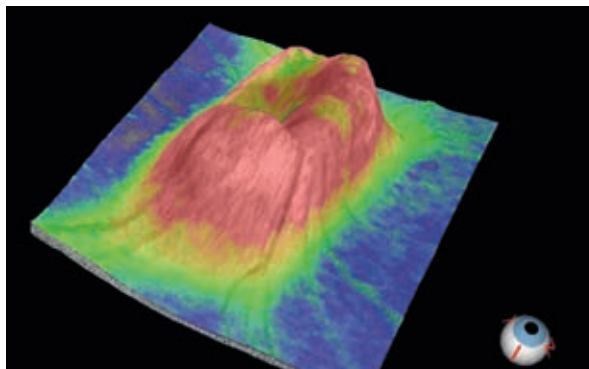
## 12MM RADIAL SCAN



### Enhanced Depth

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

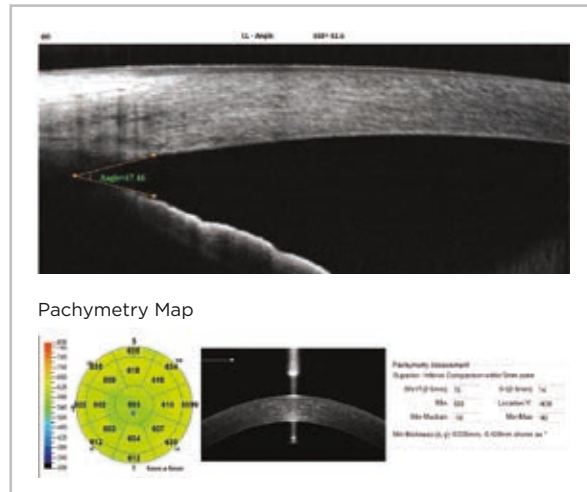
## 3D OPTIC DISC SCAN



### 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 to finely assess the morphology of the optic nerve head.

## ANTERIOR SEGMENT ANGLE WITH MEASUREMENT



### Additional capabilities

All iScan80 systems feature Optovue's exclusive iWellnessExam (see page 13). For the anterior segment, licenses are also optionally available to enable 6mm epithelial mapping as well as clearance mapping for scleral lenses (see page 12).



ifusion80

# Introducing optovue iVue80®

## HIGH-SPEED 80KHZ OCT + ICAM12 FUNDUS CAMERA OPTION

**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**

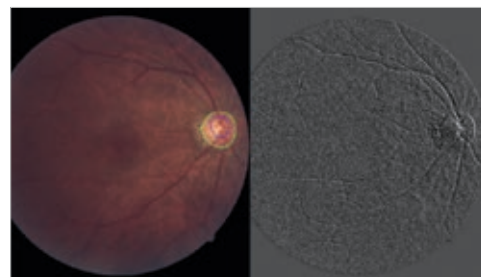
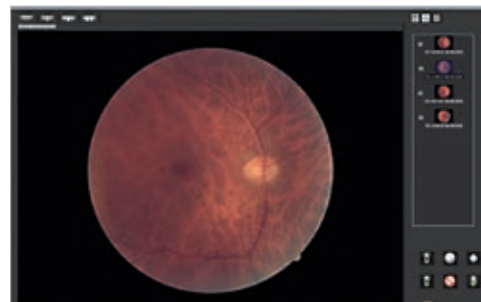
add iCam12 to iVue80 to bring detailed documentation and additional return on your investment



# and 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



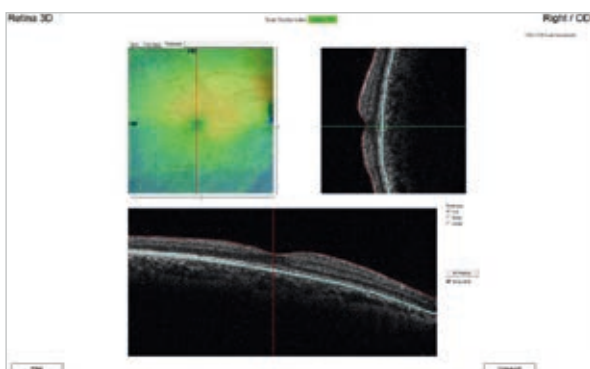
# optovue ivue80<sup>®</sup>

## 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.



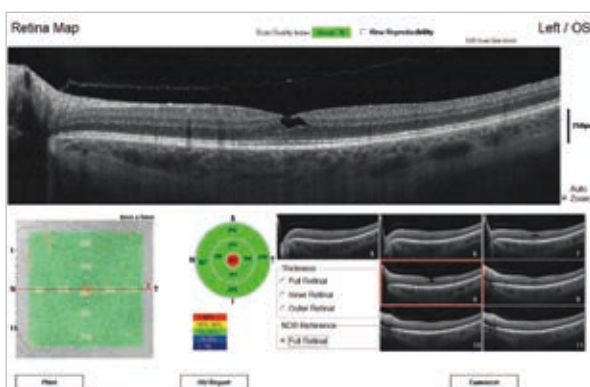
### 3D RETINA CUBE

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



### RADIAL LINE

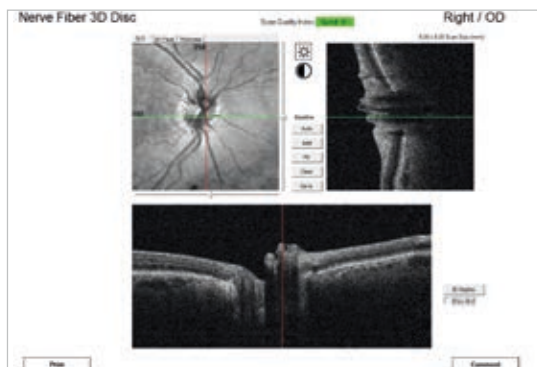
Six 12mm radial lines provide multiple views of the retina.



### RETINA MAP

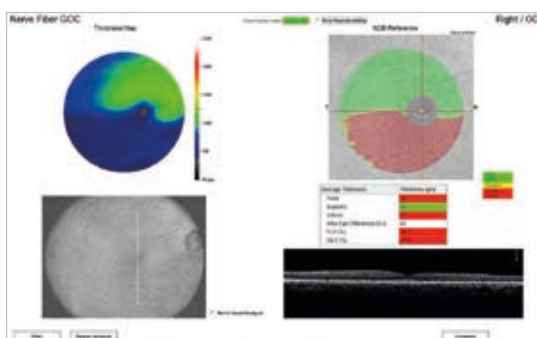
Visualize a 9x5mm area of the retina with an ETDRS reference database comparison to quickly identify areas of increased or decreased thickness.

# optovue ivue80<sup>®</sup> glaucoma reports



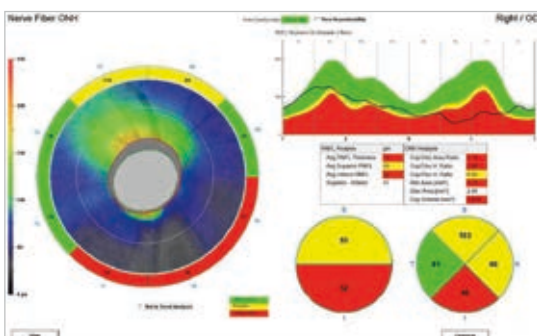
## GLAUCOMA 3D DISC CUBE REPORT

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



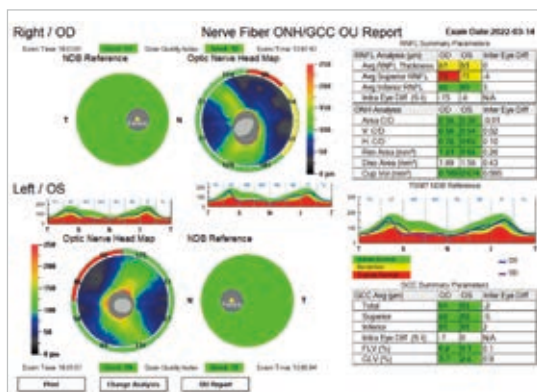
## GANGLION CELL COMPLEX (GCC) ANALYSIS

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.

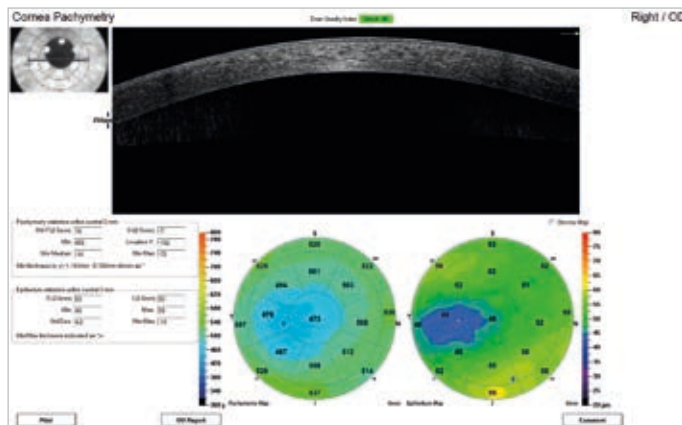


## COMPREHENSIVE REPORTS

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.

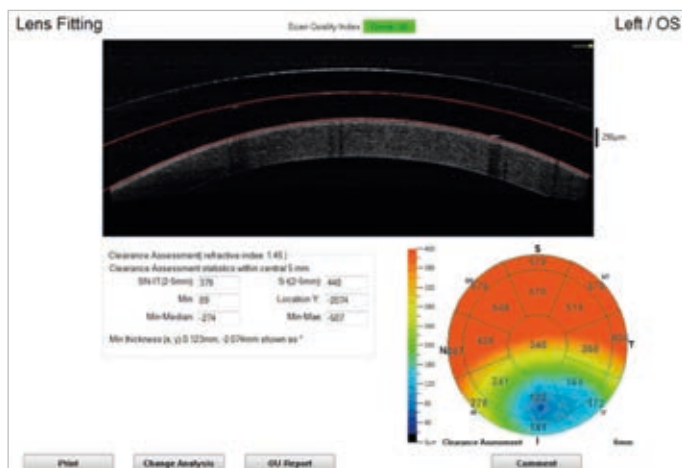
1. Zhang X, Loewen N, Tan O, Greenfield D, Schuman J, Varma R, Huang D. Predicting Development of Glaucomatous Visual Field Conversion Using Baseline Fourier-Domain Optical Coherence Tomography. Am J Ophthalmol. 2016 Mar; 163:29-37.

# optovue ivue80<sup>®</sup> anterior segment reports



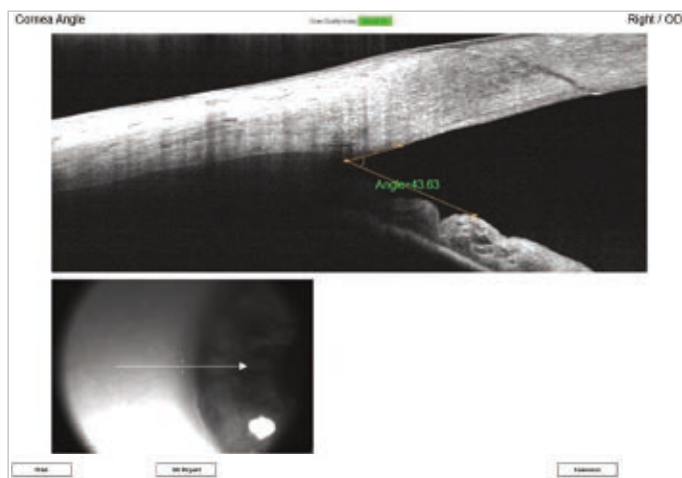
## PACHYMETRY AND EPITHELIAL THICKNESS MAPPING (MAPPING ÉPITHÉLIAL AVAILABLE AS OPTION)

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.



## VAULT MAP REPORT (OPTIONAL)

Visualize the fluid reservoir between the lens and cornea for precise scleral lens fitting.



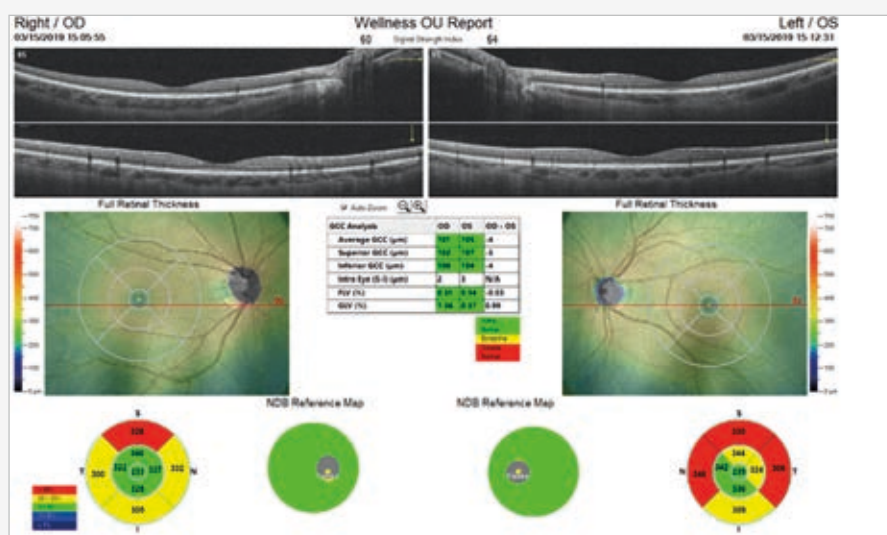
## ANGLE SCAN

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

# optovue iwelness protocol

The iwelness 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.

iwelness 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.

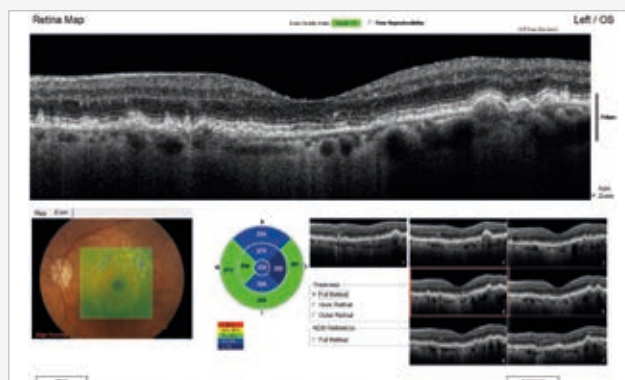


## IWELLNESS BENEFITS PATIENTS

The iwelness 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.

## IWELLNESS BENEFITS EYE CARE PROVIDERS

iwelness 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 iwelness users have affirmed that the 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 µm       | •                                                      | •                                  |
| Transverse Resolution 15 µm (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.)                              |                                                        | 43lb                               |
| <b>Computer/Networking Specifications</b> |                                                        |                                    |
| Operating System                          | Win 10 - 64 bit                                        | Win 10 - 64 bit                    |
| Processor Speed                           | 3.0 GHz; Intel Quad Core (desktop);<br>Core 2 (laptop) | 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                          | •                                                      | •                                  |

optovue icam12

| Camera                                         |                                                                     |
|------------------------------------------------|---------------------------------------------------------------------|
| Field Angle                                    | 45°                                                                 |
| Image                                          | 12 Million Pixels                                                   |
| Pupil Diameter                                 | ≥4mm                                                                |
| 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                                                              |



INNOVATION TO UNLOCK YOUR POTENTIAL

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