

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

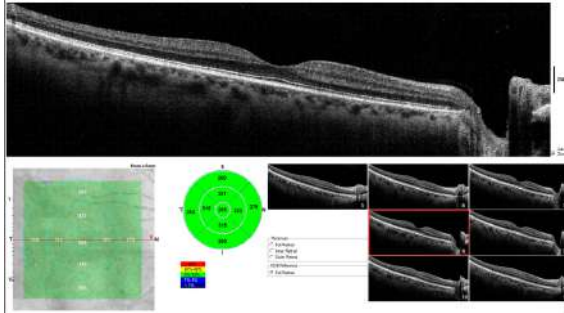
GCC analysis helps identify ganglion cell loss, which sometimes precedes RNFL loss. 3D disc scan depicts the optic nerve in cross section with the representative thicknesses of selected slices.

Additional capabilities

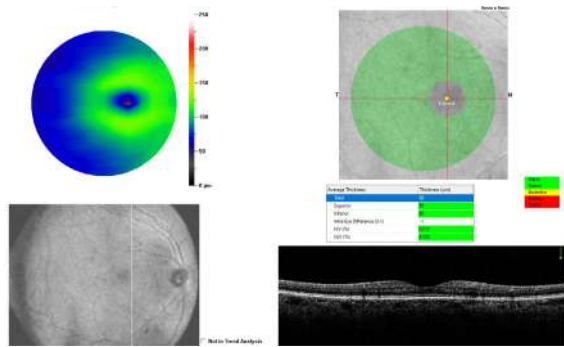
All iScan80 systems feature Optovue's exclusive WellnessExam. iScan80 Comprehensive includes Cornea Advance anterior segment imaging features such as pachymetry mapping and a variety of corneal and angle measurement tools.

iScan80 Essential

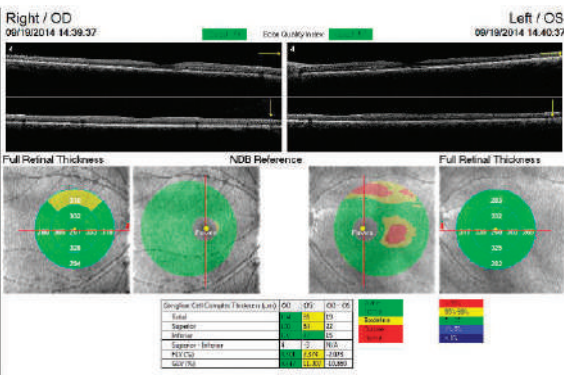
Retina Mapping



GCC Single Eye

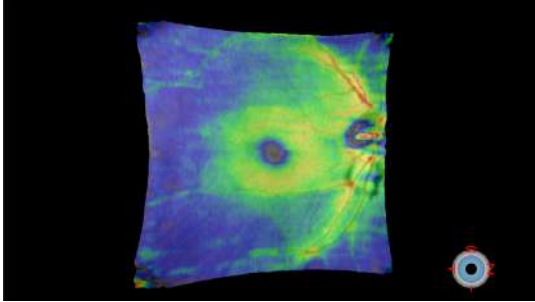


WellnessExam

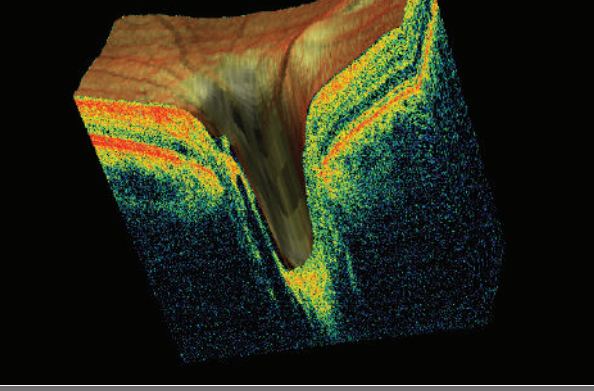


iScan80 Comprehensive

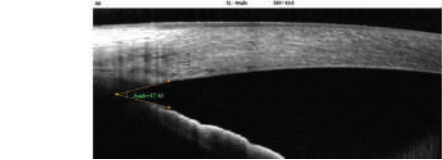
3D Retina



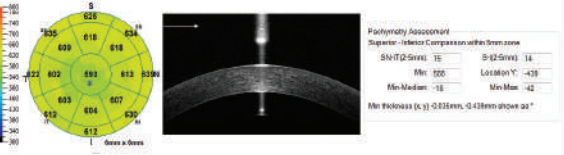
3D Optic Disc Scan



Anterior Segment Angle with Measurement



Pachymetry Map



iScan80 specifications

Scanner

OCT Image	80,000 A-scan/second
Depth Resolution (in tissue)	5.0 µm
Transverse Resolution	15 µm (retina)

Scan Range

Depth	2 - 2.3mm (retina)
Scan Beam Wavelength	840nm (+/-10nm)

OCT Fundus Image (En Face)

FOV	(H) 21° x (V) 21°
Minimum Pupil Diameter	2.0mm
External Image (Live IR) FOV	13mm x 8mm

Size

Dimensions (in.)	(W) 19.81 x (L) 15.83 x (H) 17.82
Weight (lb.)	42.94

Our vision is foresight

Since 2006, Optovue has been a leading provider of OCT technology for ocular diagnostic imaging, having installed more than 15,000 systems on six continents. We remain the only company in the world solely focused on furthering the science, efficacy and clinical application of OCT for enhanced eye health. Not surprisingly, this specialization has yielded a history of OCT patents and firsts.

Our mission is your success

To unleash the full potential of OCT in your practice, Optovue puts its world-class OCT resource center at your disposal:

- *The Academy at Optovue* brings OCT education to your computer and mobile screens to help you interpret images, understand reports, apply the information to clinical practice—or help your staff become better OCT operators.
- *Best-In-Class Training and Support* starts with professional installation and in-office staff training from your dedicated Optovue clinical applications specialist and goes on to include five years of free phone and online support.
- *Free Software Updates* that improve system usability and efficiency throughout your instrument's operational lifetime are included with every iScan80 system. Major software upgrades may be available for purchase.

Bottom line, when you invest in iScan80, you also secure a valuable OCT practice partner.

Put Optovue foresight to work in your practice today

For a complimentary practice consultation or iSeries system demonstration call 1.510.623.8868 or visit optovue.com.



Our vision is foresight

2800 Bayview Drive, Fremont, CA 94538 optovue.com

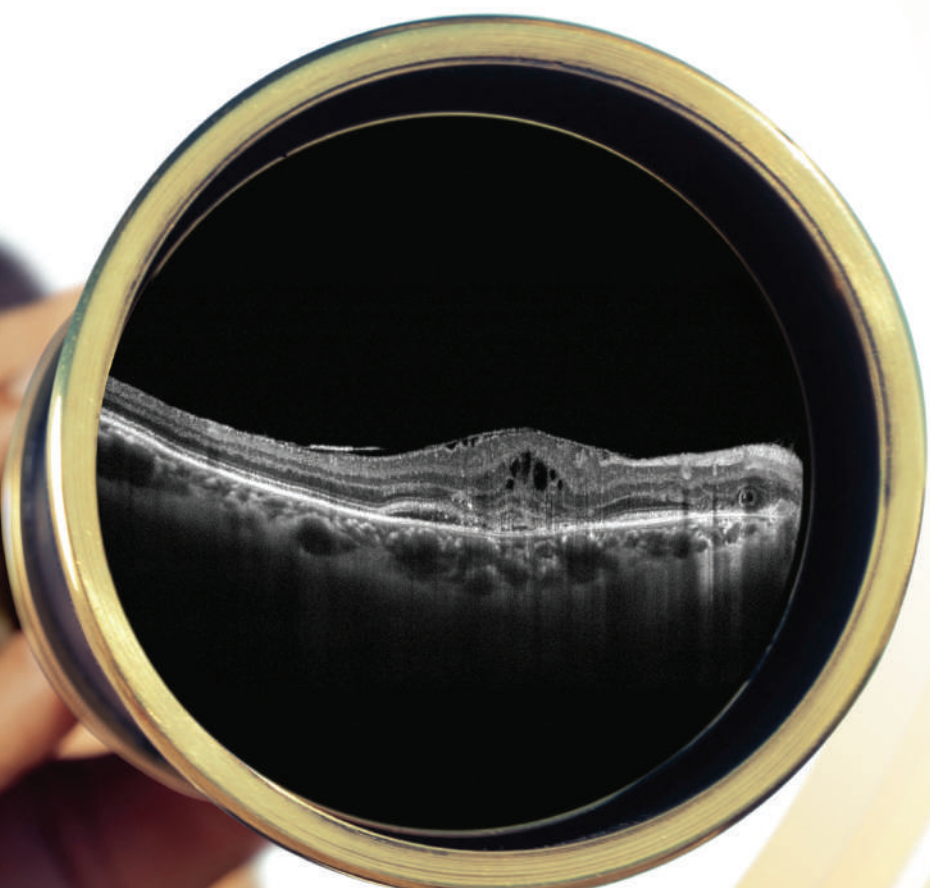
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1. Data on file.

300-52534 Rev. B



Our vision is foresight



iScan[®]80
OCT System

iScan80® OCT

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 OCT entrée. 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.

From Essential to Comprehensive

iScan80 is available in two configurations: Essential and Comprehensive. **iScan80 Essential** can be upgraded to **iScan80 Comprehensive** at any time to enable more advanced diagnostic imaging.

iScan80 Essential capabilities

- **WellnessExam**
- Retina mapping
- RFNL and GCC® trend analyses
- FLV% and GLV% analysis to increase GCC sensitivity and specificity

iScan80 Comprehensive capabilities

iScan80 Comprehensive includes all iScan80 Essential capabilities plus:

- High-density 3D retinal imaging
- In-depth 3D optic nerve head analysis
- Cornea Advance anterior segment imaging and measurement

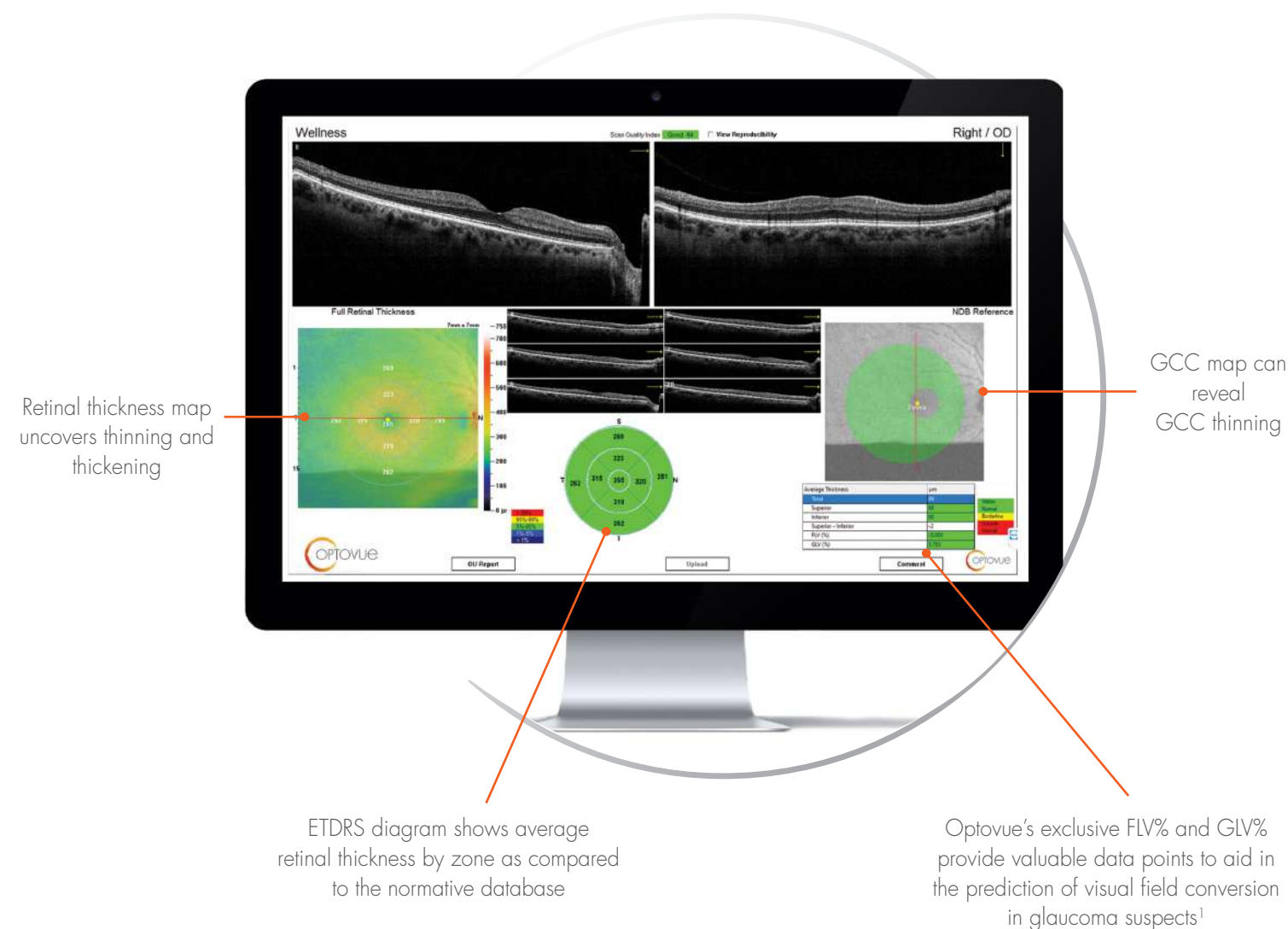


WellnessExam®

A clear path to patient eye health

The **WellnessExam®** is an Optovue exclusive that delivers a quick, easy OCT scan to promote better overall patient eye health. Its usefulness stems from a single, comprehensive report that depicts:

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



WellnessExam benefits patients

Ultimately **Wellness** 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.

WellnessExam benefits eye care providers

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

Networking solutions

iScan80 provides comprehensive networking capabilities for the most effective and efficient OCT utilization. It stems from our NetVue product suite, which empowers you to receive, review and modify images wherever and whenever you choose. Capture new patient scans while existing scans are being reviewed. View and modify images from as many as 10 review stations. Access OCT images from your smart phone, tablet, laptop or desktop. NetVue makes such seamless workflow possible. Naturally iScan80 is fully DICOM compatible.

Review station requirements

Operating System:	Win 10, 64 bit
Processor Speed:	Intel® Celeron (i7-8700T 2.40 GHz)
Computer RAM:	16 GB or higher
Network Bandwidth:	1Gbps or higher
Monitor Resolution:	24 in.1920x1080 60Hz

optovue iSeries

Engineered for
your OCT success




VISIONIX

INNOVATION TO UNLOCK YOUR POTENTIAL



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 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, and the iWellness Exam.

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

The complete range

optovue iWellness

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



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 iVue 80 with a high-performance fundus camera 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.

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



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 **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 **iScan 80** delivers consistent scan acquisition with minimal training - and vocally guides patients through an entire exam in any of 12 languages. The new **iScan 80** 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, **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.

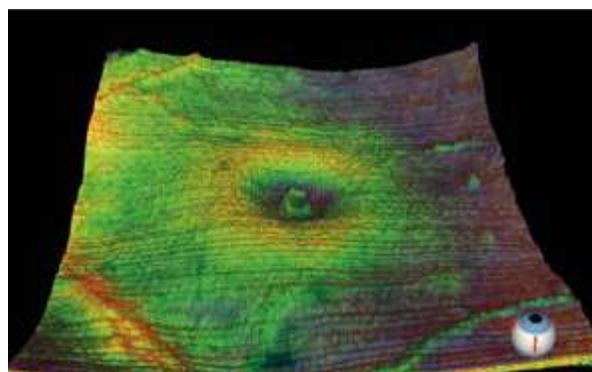
iScan 80 comprehensive includes:



- 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

iScan 80 comprehensive report

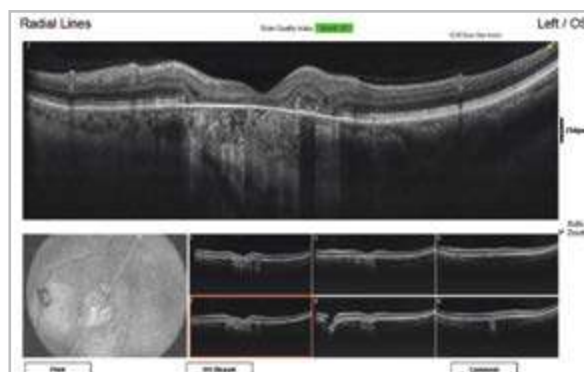
3D RETINA



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.

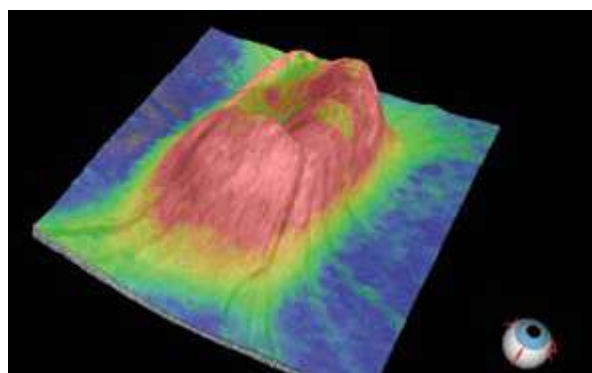
12MM RADIAL SCAN



Enhanced Depth

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

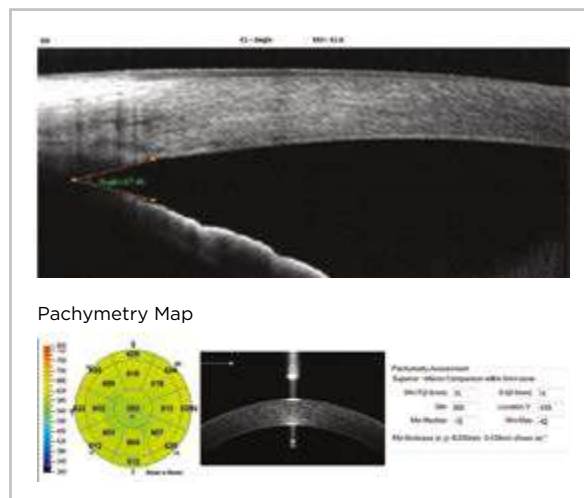
3D OPTIC DISC SCAN



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 iScan 80 systems feature Optovue's exclusive iWellness Exam (see page 13).



optovue iFusion80

Introducing **optovue iVue80**

HIGH-SPEED 80KHZ OCT + iCam 12 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 iVue 80 one of the best values in OCT technology today

High-resolution fundus and external photography

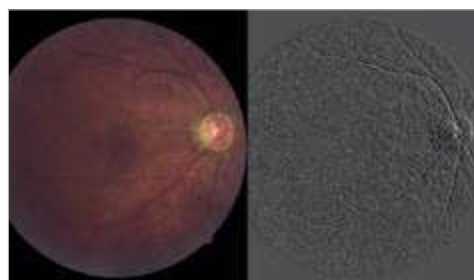
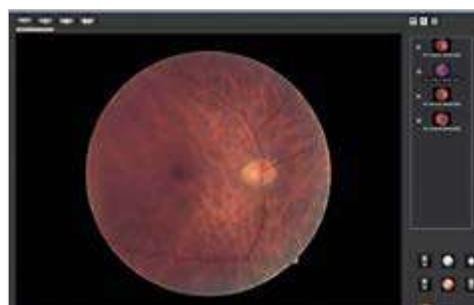
add iCam 12 to iVue 80 to bring detailed documentation and additional return on your investment



Introducing **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

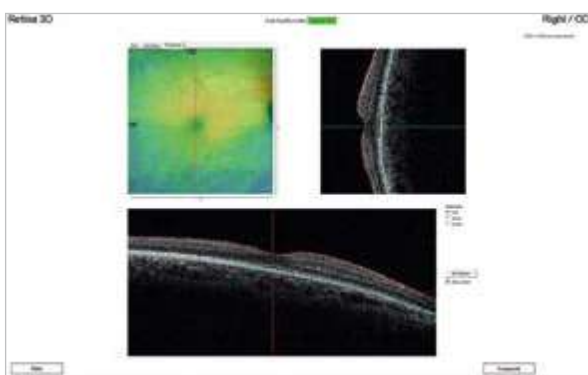


optovue iVue80 retina reports



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.



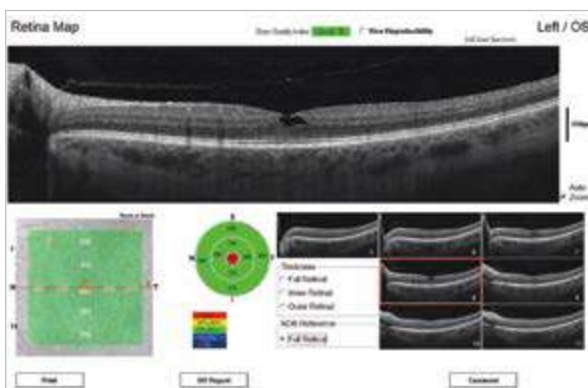
3D RETINA CUBE

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



RADIAL LINE

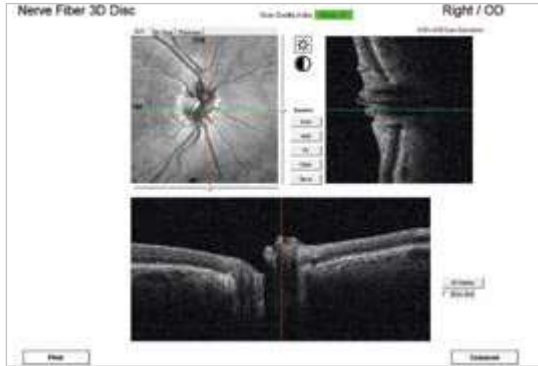
Six 12mm radial lines provide multiple views of the retina.



RETINA MAP

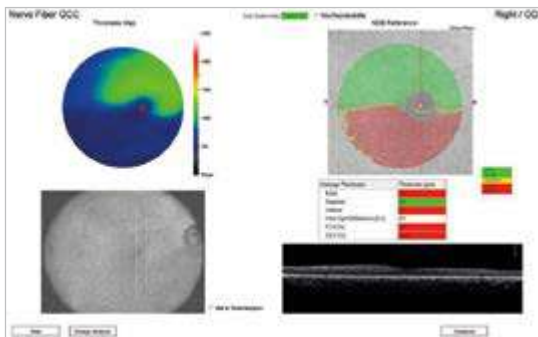
Visualize a 9x5mm area of the retina with an ETDRS reference database comparison to quickly identify areas of increased or decreased thickness.

optovue iVue80 glaucoma reports



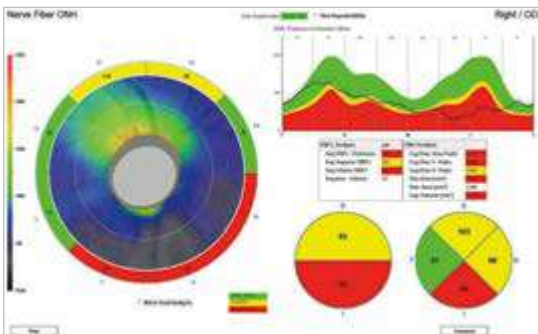
GLAUCOMA 3D DISC CUBE REPORT

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



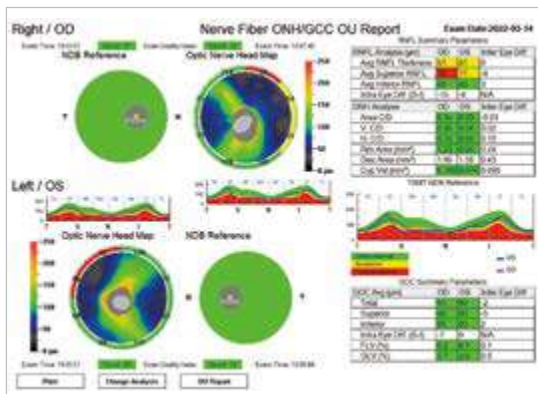
GANGLION CELL COMPLEX (GCC) ANALYSIS

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.¹



NERVE FIBER LAYER ANALYSIS

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

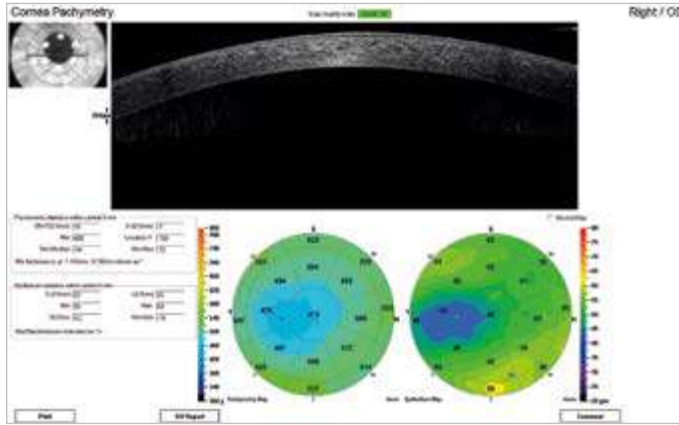


COMPREHENSIVE REPORTS

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.

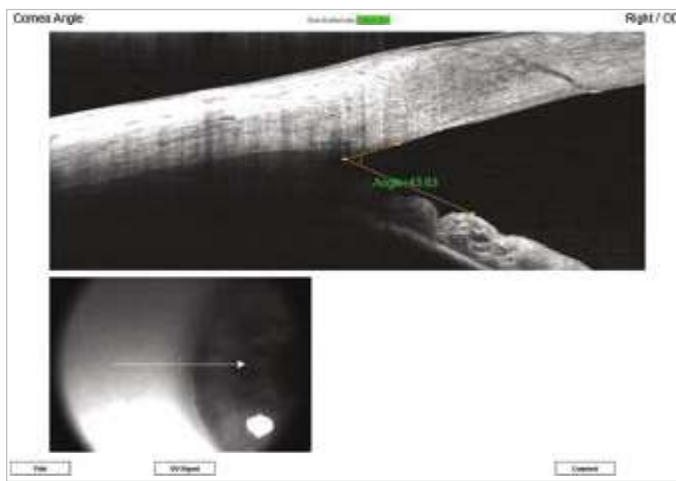
1. Zhang X, Loewen N, Tan O, Greenfield D, Schuman J, Varma R, Huang D. Predicting Development of Glaucomatous Visual Field Conversion Using Baseline Fourier-Domain Optical Coherence Tomography. *Am J Ophthalmol*. 2016 Mar; 163:29-37.

optovue iVue80 anterior segment reports



PACHYMETRY AND EPITHELIAL THICKNESS MAPPING (EPITHELIAL MAPPING AVAILABLE 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.



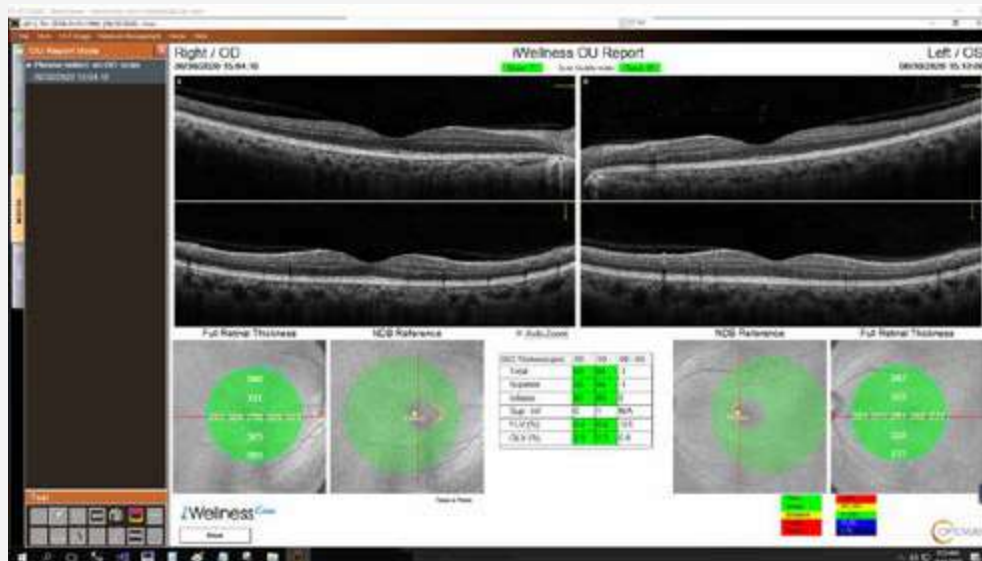
ANGLE SCAN

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

optovue iWellness protocol

The 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.

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.

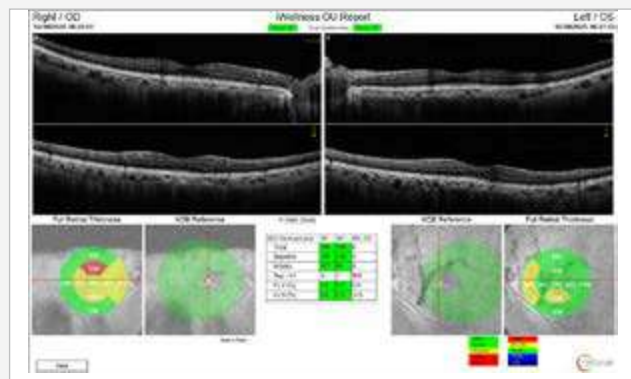


iWellness BENEFITS PATIENTS

The 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.

iWellness BENEFITS EYE CARE PROVIDERS

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 iWellness 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
Scanner		
OCT Image 80,000 A-scans/second	•	•
Depth Resolution (in tissue) 5.0 μ m	•	•
Transverse Resolution 15 μ m (retina)	•	•
Scan range		
Depth 2 - 2.3mm (retina)	•	•
Scan Beam Wavelength 840nm (+/-10nm)	•	•
OCT Fundus image face		
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
Dimensions		
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
Computer/Networking Specifications		
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	•	•

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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Features and specifications are subject to change without prior notice.

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