optovue autofusion

An Automated Dual Modality OCT and Fundus Camera

VISIONIX

INNOVATION TO UNLOCK YOUR POTENTIAL

from Grafton Optical


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Ophthalmic Imaging Simplified

The Optovue Autofusion is a fully automated, non-contact imaging device that provides high-resolution tomographic and fundus images. It includes a non-mydriatic digital fundus camera and features a built-in operating system.

The Optovue Autofusion is designed for in vivo viewing, offering axial cross-sectional and 3D imaging and measurement of posterior ocular structures, such as the retina, retinal nerve fiber layer, macula, and optic disc, aswell as imaging of anterior ocular structures.

INTUITIVE USE: Easy to operate, for both experienced and new users.

TOTAL AUTONOMY: An integrated machine with no need for an external PC reduces clutter and technical risks.

SIMPLIFIED INSTALLATION: One connection and an integrated screen for clear result display.

FULLY AUTOMATIC PROCESS: A single button to start the examination.

AUTOMATIC EYE TRACKING: Ensures accurate images.

DELEGATION READY: Ideal for meeting the growing needs in the medical sector.

This innovation transforms ophthalmic examinations by combining simplicity and efficiency, thereby facilitating modern medical practice.

OCT
A-Scan
80 KHZ

Fundus Camera
12M Pixels

3D Auto
Tracking

10 Scans

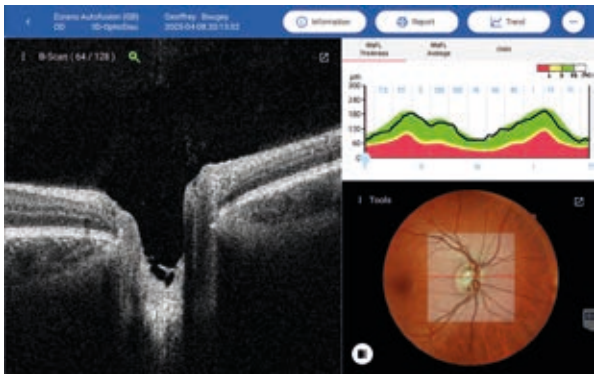
Touch Screen

Follow-up
report

DICOM

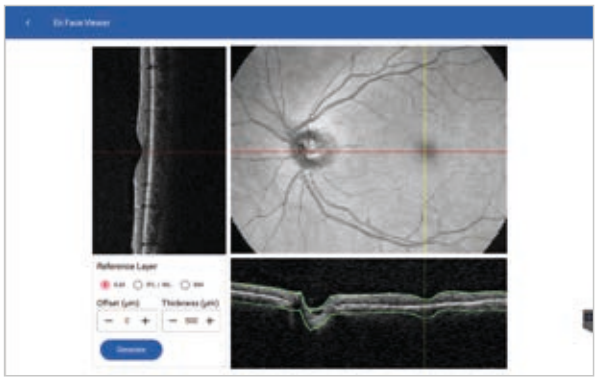
Tilt screen

The Perfect Imaging Combo



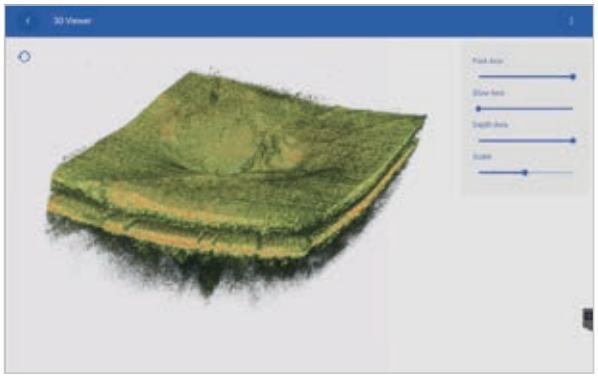
HIGH QUALITY IMAGES WITH 80K HZ A-SCAN

Optovue Autofusion automatically captures and generates high-resolution OCT image and 12 MP high quality true color retinal photos.



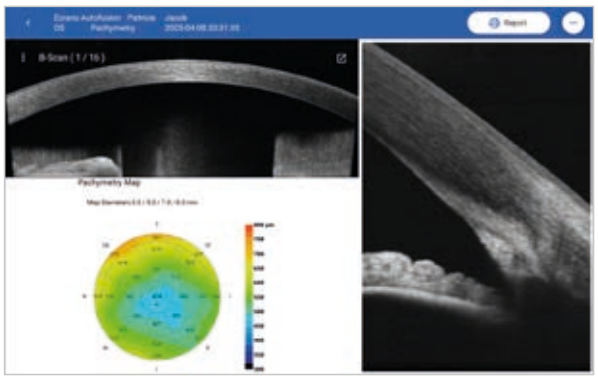
EN FACE VIEWER

Optovue Autofusion OCT/Fundus overlay feature can be applied to any designated area.



3D VIEWER

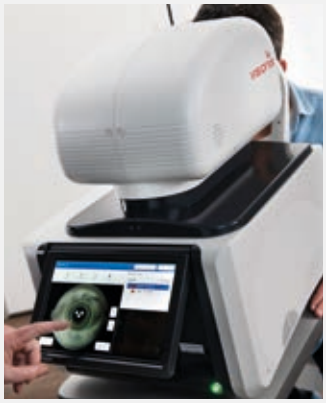
Optovue Autofusion OCT is capable of reconstructing the retinal tissue in 3D space for inspection from a user-defined perspective and scale.



ANTERIOR SEGMENT MEASUREMENT

Seamlessly automated and effortlessly captured, anterior segment imaging delivers a complete structural overview - from precise pachymetry to detailed angle evaluation.

Fully Automatic Alignment and Image Capture with Single Tap



With just a single tap, the Optovue Autofusion can automatically align, focus, track, capture images, and provide measurement results for both Macular OCT and Disc OCT. Additionally, when the optional CAM accessory is attached, it performs auto measurement for Pachymetry and angles. Utilizing 3D tracking, focusing technology and auto capture of fundus images, the Optovue Autofusion streamlines the examination process for doctors while enhancing patient care.

Tilt screen

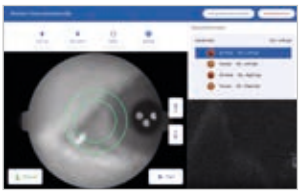
Height-adjustable chinrest

Macula and optic nerve capture and analysis in 1 3D wide scan: Depending on clinical needs, the two acquisition processes can be combined into a single, continuous workflow for greater efficiency.

Acquisition process for the ONH (Disc) and macula

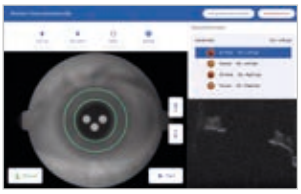
Step 1

Select a measurement mode.



Step 2

You may have to raise or lower the chin rest first. Then tap the center of the pupil, system will align automatically.



Step 3

Click 'START.' System will track and complete measurement.

Step 4

Results will be shown in Preview page instantly.

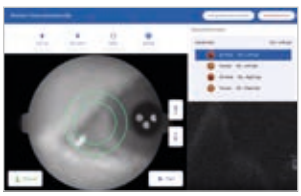
Acquisition process for Cornea Image capture

Step 1

Insert the forehead and cornea anterior module (CAM) for cornea scan mode.

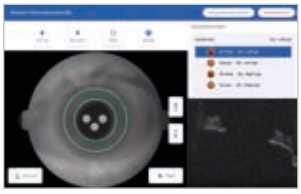
Step 2

Select a measurement mode (Angle or pachymetry).



Step 3

You may have to raise or lower the chin rest first. Then tap the center of the pupil, system will align automatically.



Step 4

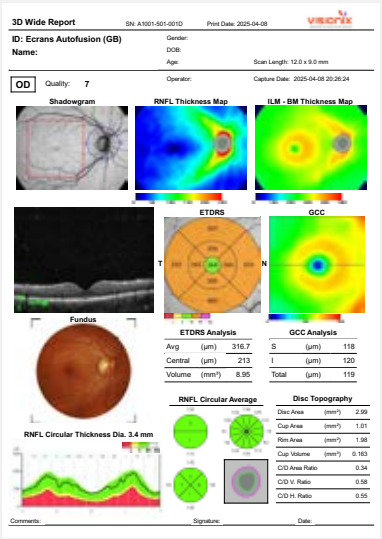
Click 'START.' System will track and finish measurement.

Step 5

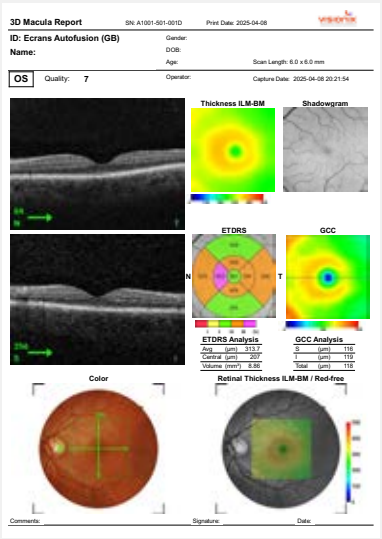
Results will be shown in Preview page instantly.

Comprehensive Reports for Each Scan Mode

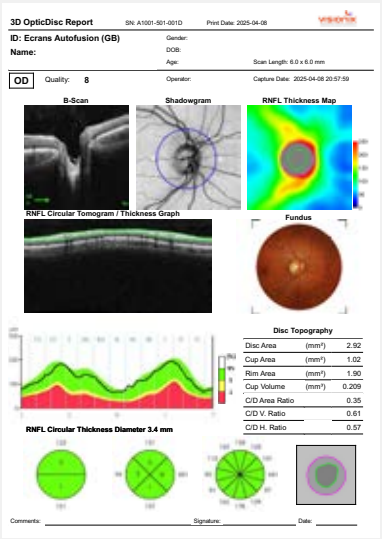
Optovue Autofusion offers optic nerve and macular analysis from a single 3D Wide scan. Individual optic nerve scan , provides progressive RNFL, and ONH parameter evaluation. 3D Macula includes progressive ETDRS THICKNESS maps, and GCC analysis. Other posterior reports include 5-Line Cross, Line , Wide Line mode and Radial scans. Anterior reports include Corneal thickness, Angles. Detailed and pre-formatted reports can be easily exported, printed or shared.



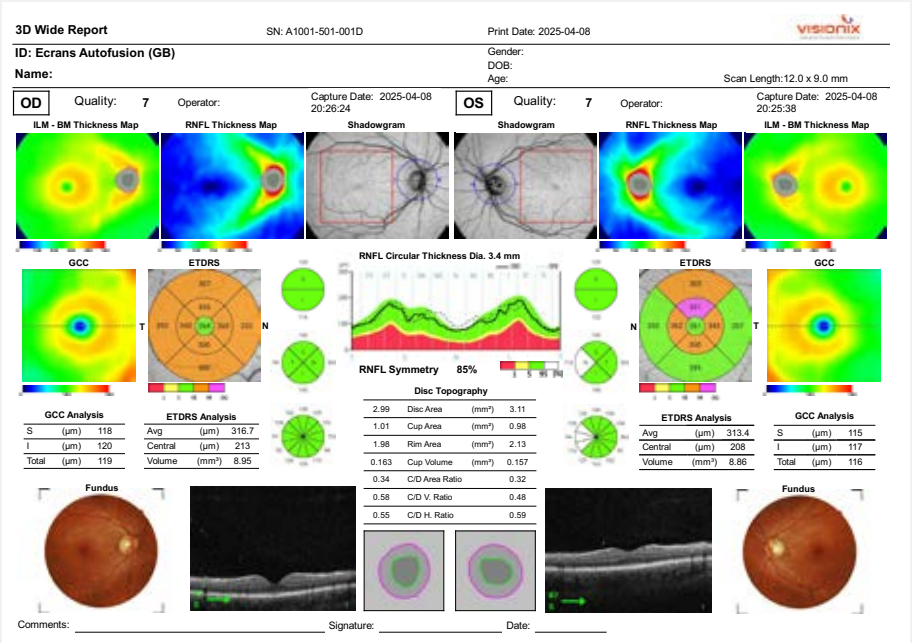
3D wide report includes OpticDisc



3D Macula report

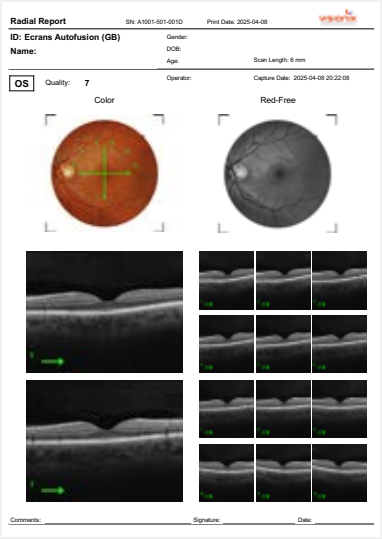


3D Optic Disc Report

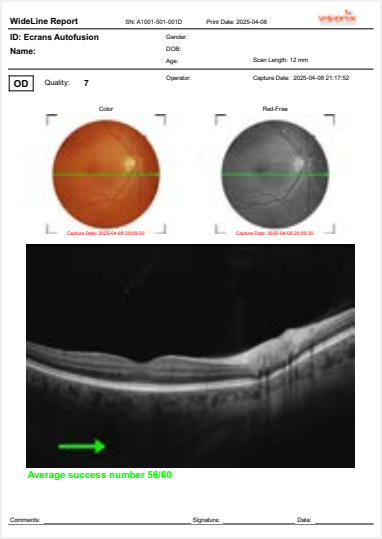


3D Wide OU report

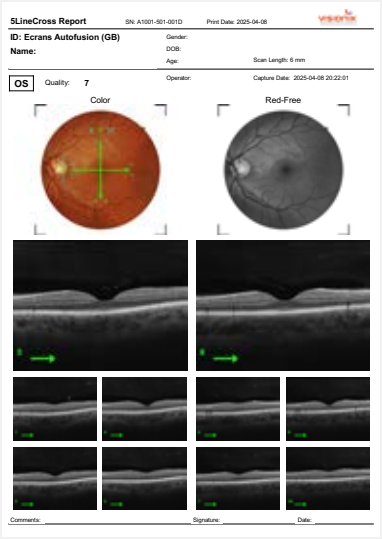
Line and radial reports



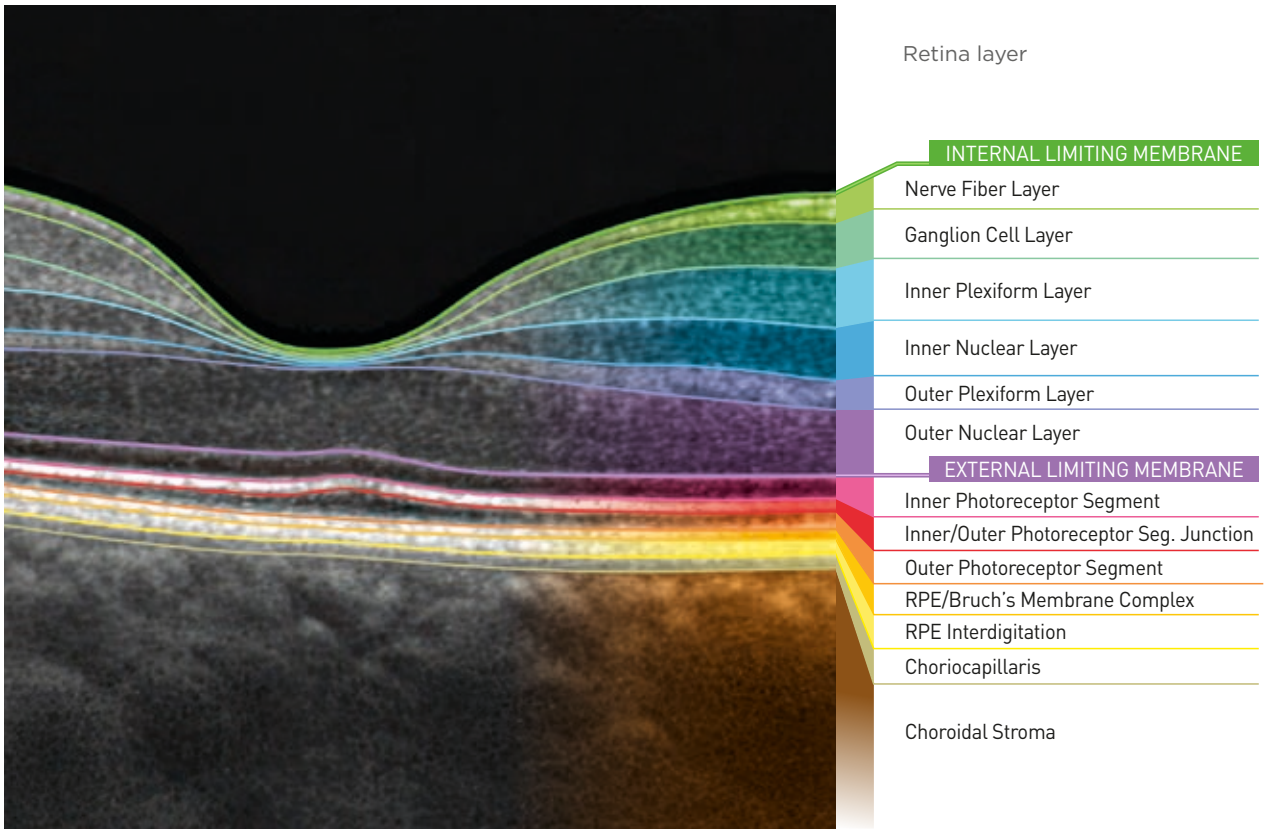
Radial Report



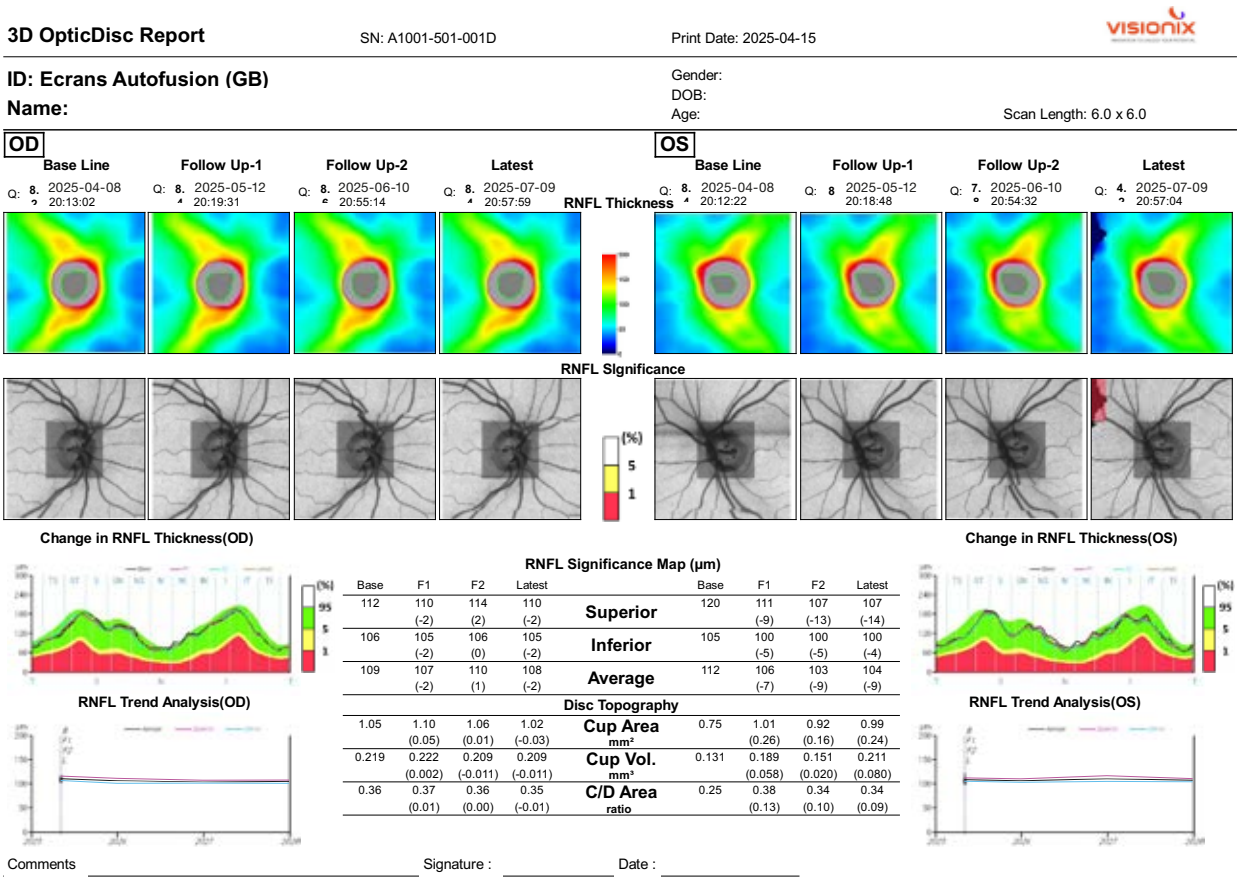
WideLine Report



5-Line Cross Report @ fovea



OCT Follow-Up Report – 3D Optic Disc Analysis



Follow-up report on a healthy eye – illustration produced for brochure content

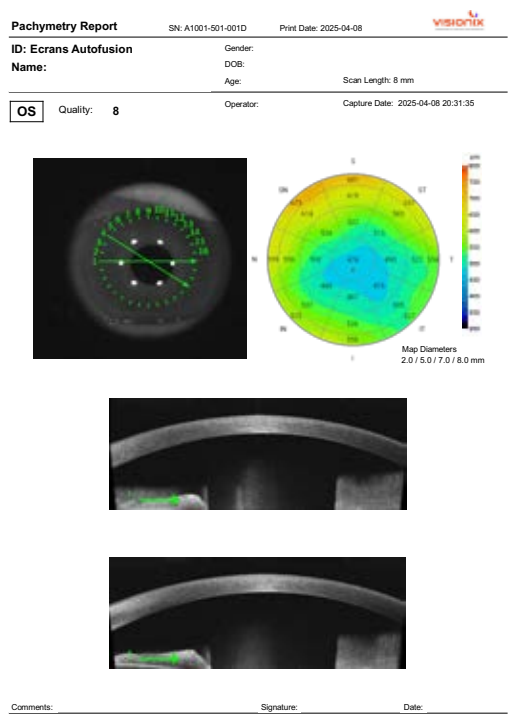
This follow-up report highlights structural changes between exams, providing a detailed and quantitative assessment of both the optic disc and the RNFL.

The key parameters include:
Change in RNFL Thickness (OD-OS); RNFL Trend Analysis (OD-OS); RNFL Significance Map (Qm); Disc Topography.

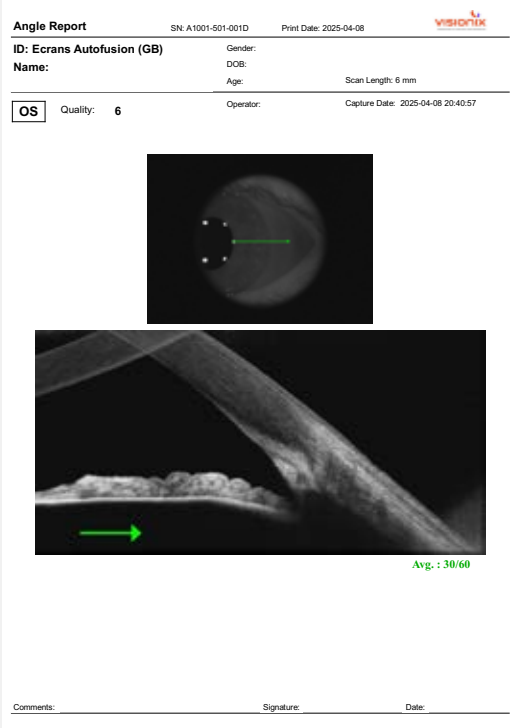
This comprehensive report combines both quantitative and visual data to enhance the detection of early changes, making it a vital tool in the clinical management of optic nerve pathologies, especially in glaucoma follow-up.

Anterior segment analysis

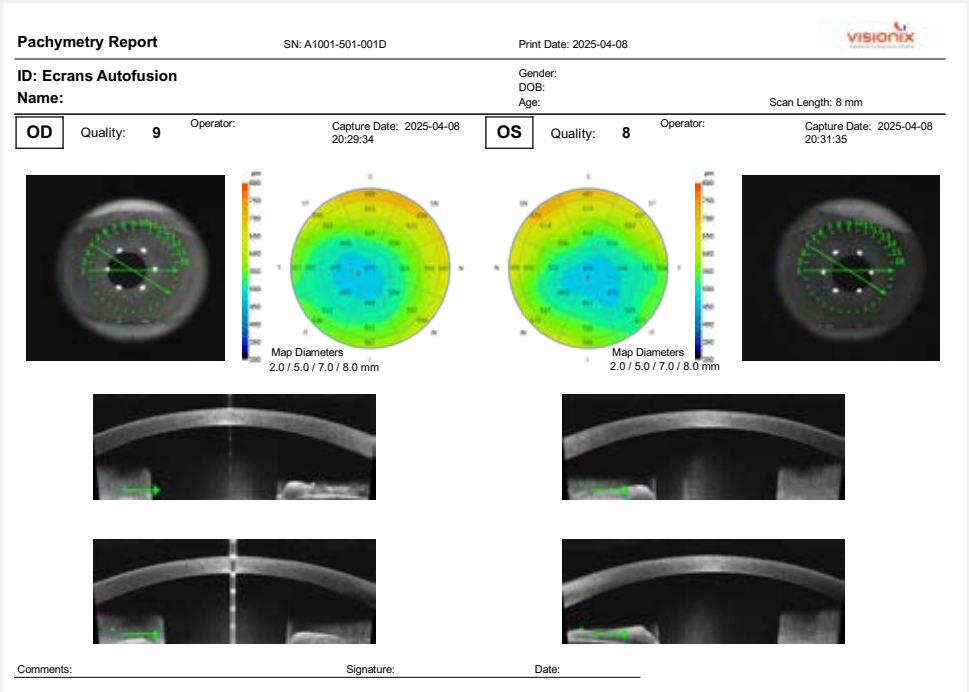
The Optovue Autofusion offers outstanding performance in anterior segment imaging, combining high-resolution scans with dedicated analysis tools for precise evaluation of corneal structures, and angle measurements for surgical planning. Its advanced anterior segment module enhances diagnostic confidence and broadens clinical applications, making it an indispensable tool for comprehensive anterior segment assessment.



Pachymetry Map



Angle Report
(Anterior Chamber)



OU Pachymetry report

Technical specifications OCT Autofusion

DIMENSIONS:

WIDTH	409 mm
DEPTH	534 mm
HEIGHT	546 mm
WEIGHT	<=32Kq (w/o packaqe)

NOT FOR THE USA

OCT SCANNING FUNCTION

Function	Value/Type	Remark
OCT light source	840 nm	
Scan Mode	3D Mode: 3D Optic Disc, 3D Macula Line Mode: Line, Wide Line, 3D wide, 5-line Cross, Radial Pachymetry and Angle Measurement Anterior mode: Radial Pachymetry and Angle Measurement	
Scan Range	Line and 3D Mode: 6mm x 6mm (H & V 35%) Wide Line Mode: 12mm or less (3 5%)	
In-depth Resolution	< 6µm	
Scan speed	Max. 80,000 A-scan/s	
Minimum pupil	Ø 2.5 mm	
Fixation	Internal External	15 points (green LED) 1 point (amber LED)

(Note: The external fixation can be used to help keep the eye with poor vision being scanned in the correct location.)

FUNDUS CAMERA FUNCTION

Function	Value/Type	Remark
Imaqe mode	Color	
Field of view	45°	
Image resolution	Center: 60 lines/mm Middle (r/2): 40 lines/mm Periphery (r): 25 lines/mm	
Pixel pitch on fundus	4.3µm	
Illumination for retina imaqe (Capture)	White LED	
Cornea Image (Capture)	White LED	
Illumination during alignment to patient's retina	NIR LED	
Focus Diopter adjustment range	-15D / +10 D	Without compensation lens
	-30D / -lOD	With internal compensation lens
	+5D / +30D	With internal compensation lens
Minimum pupil size	Ø 3.8 mm	
Focus Adjustment	Auto/ Manual	Split-image technique

GENERAL FUNCTION

Function	Value/Type	Remark
Alignment Mode	Automatic 3D tracking; Manual	
Chinrest	Motorized	
External 1/0 port	USB port, LAN, HDMI	LAN: RJ45 xl USB 3.0xl / USB 2.0xl HDMIxl
Input/ Output format	Imaqe format: JPEG, PNG,	
	DICOM (optional)	
Display	10.1" LCD panel with touch function	Display resolution:1280x800
Operation Range	Front/Back: 65mm Left/Right: 100mm Up/Down: 30mm	
Minimum pupil size	Ø 2.5mm or more for OCT Ø 3.8 mm or more for fundus camera	
Focus Adjustment	Medical grade power module Input: AC 100-240V @ 50-60 Hz ; auto-selected;	
Medical device conformity	Class IIa medical device, CE certification in progress for EU MDR 2017/745 compliance with Notified Body IMQ (0051)	
Legal Manufacturer	Luneau Technology Operations : 2 rue Roger Bonnet, 27340 Pont-de-l'Arche, France	

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