

Maestro2

Optical Coherence Tomography
True Colour Fundus Camera



**ONE SCAN.
ONE REPORT.
ONE INSTRUMENT.**
The fast, one-touch,
automated OCT and
Fundus Camera.

With OCTA!



Maestro2

Automatic Acquisition,
Clinical Confidence.

Overview



**User-friendly
Automated OCT +
Fundus Camera**



**True Colour¹
Fundus Photography**



**Full 360°
Rotating Touchscreen**



**12x9mm
3D Wide Scan**



Anterior Segment OCT



Reference Database



**Single Touch
Alignment
and Capture**



**Higher Signal-to-Noise
Ratio OCT Angiography
(OCTA) Images
with Smart Denoise³**

1 True, full colour fundus image simultaneously captured with white light, 24-bit colour.

2 In order to activate the anterior scanning function, the optional anterior segment attachment (HA-2) is needed.

3 OCTA and Smart Denoise are optional. Please check with your local Topcon distributor.

Autoalign, Autofocus, Autocapture.



Step 1

Select a scan type



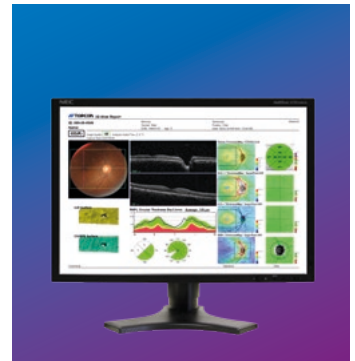
Step 2

Select 'Start' to capture



Step 3

Results are displayed instantly



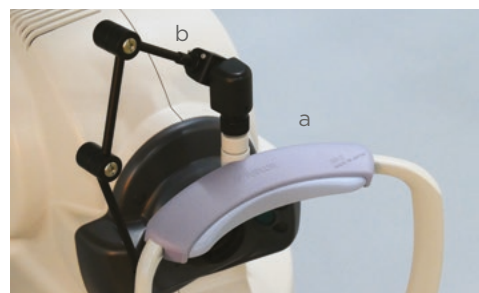
Step 4

Reports are generated automatically

Full 360° rotating monitor allows flexible device positioning.



Optional Accessory



- a. Anterior segment attachment (HA-2)
- b. External Fixation Target (EF-2)

Fully automated, high quality OCT Angiography⁴

At the touch of a button, Maestro2 provides instantaneous vascular flow information without the need for contrast dye injection, together with comprehensive segmentation to support advanced diagnosis. The newly implemented features such as vessel enhancement and Smart Denoise⁴ produce OCT Angiography images with less artifacts and increased contrast. OCT Angiography data can be quantified with OCTA density maps and associated metrics.⁵

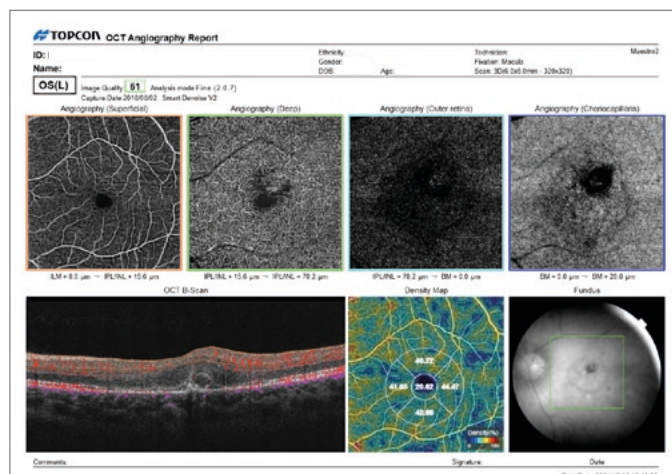


Image Processing by
Topcon's Unique AI
Algorithm

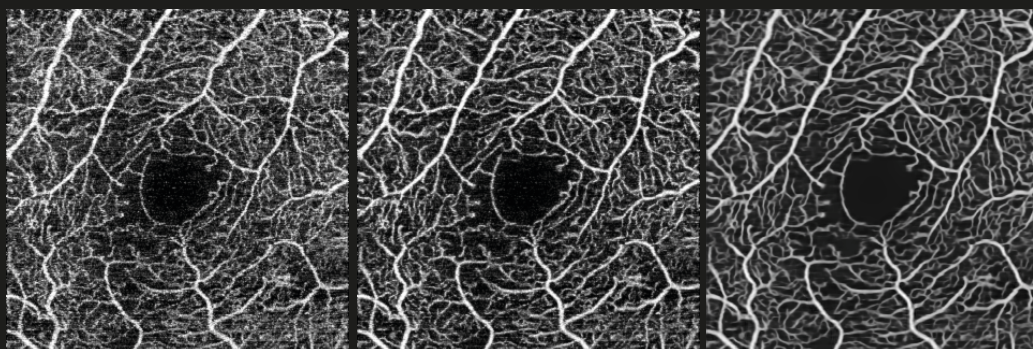


OCTA Denoising
for Superficial and
Deep Slabs



Easy to Capture
High Quality Images

Superficial

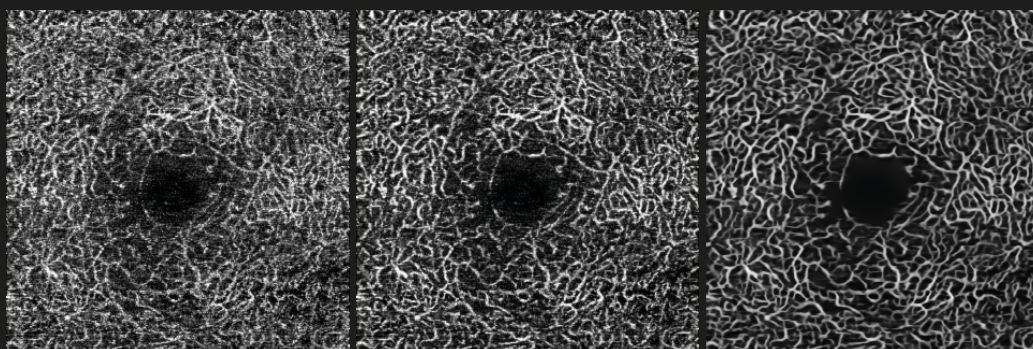


Original

Vessel Enhancement

Smart Denoise

Deep



Original

Vessel Enhancement

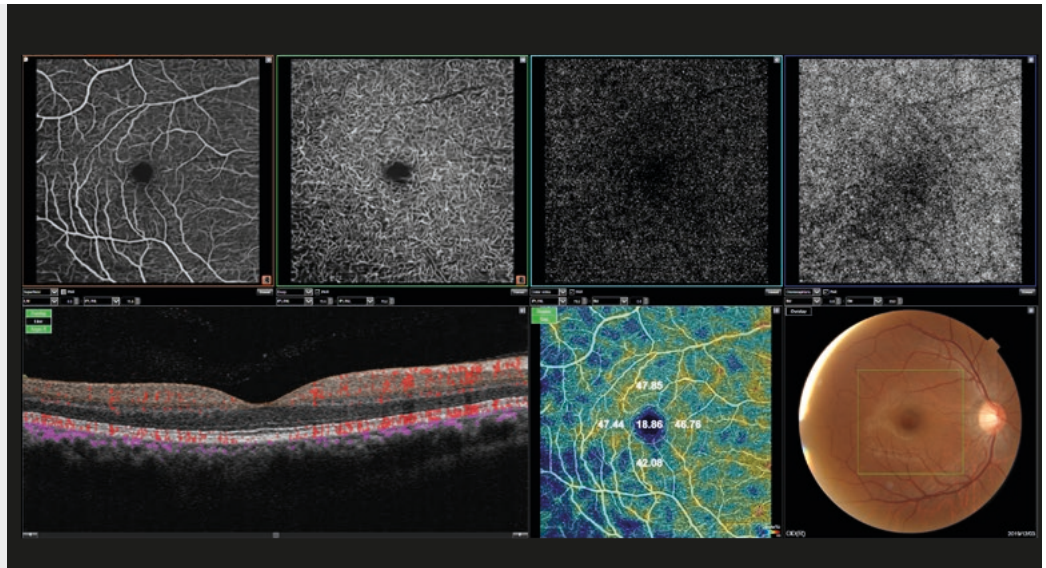
Smart Denoise

⁴ OCTA and Smart Denoise are optional. Please check with your local Topcon distributor.

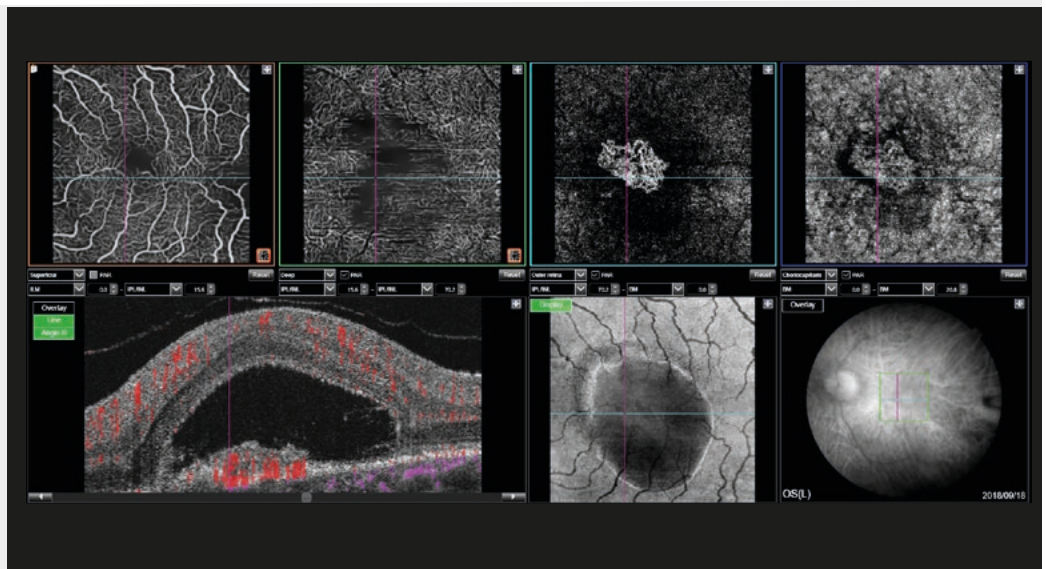
⁵ The OCTA Density is defined as the ratio between the high signal area and low signal area and it is displayed in colour and/or number.

Maestro2 – Featuring OCT Angiography

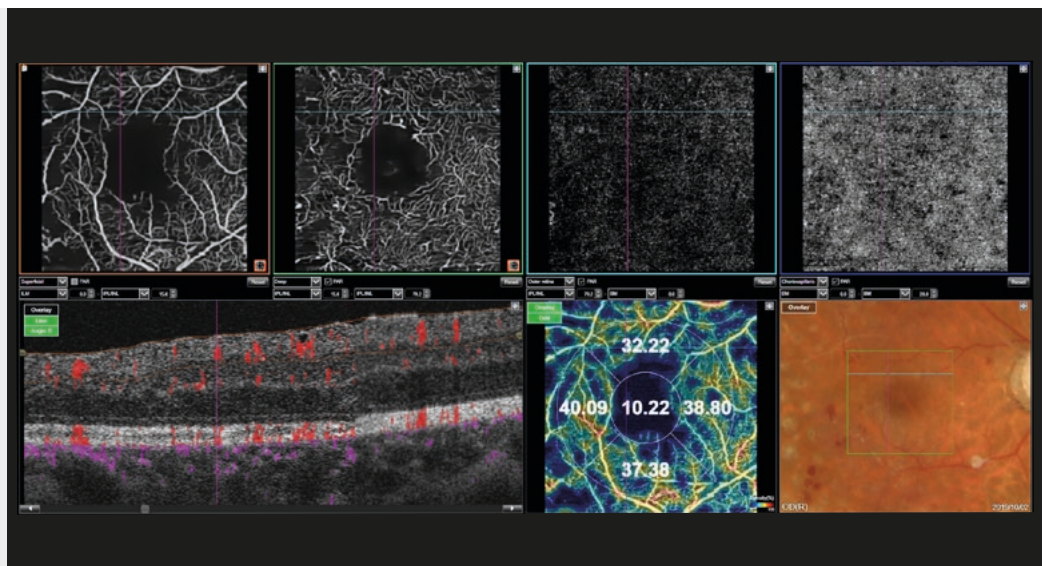
Healthy Eye⁶



Choroidal Neovascularization (CNV)⁷



Diabetic Retinopathy (DR)⁸



⁶ Michael H. Chen, OD

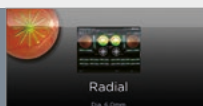
⁷ Prof. Siamak Ansari Shahrezaei, MD PhD (Karl Landsteiner Institute for Retinal Research and Imaging)

⁸ Miho Nozaki, MD, PhD (Nagoya City University Hospital)

Extensive Set of Reports

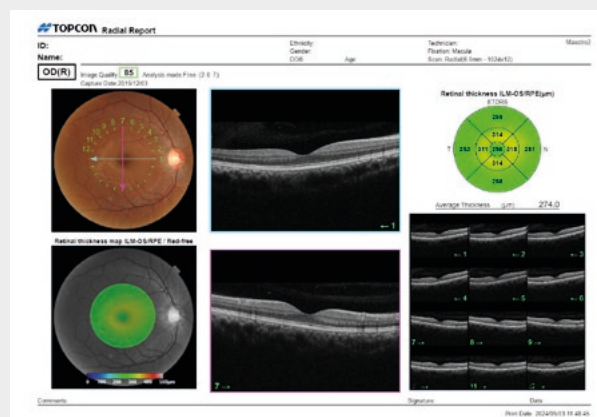
Maestro2 provides rich analysis functions for the macular and disc regions, a selection of which are shown here. Comprehensive, predefined reports can be auto-exported, printed or sent to your image management system or EHR, in common file formats.

MACULA



Radial Scan

A radial scan, providing a 12-way tomographic image, which is displayed in the report.

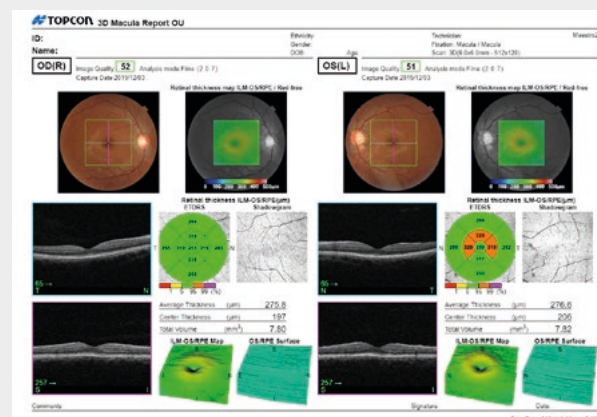


MACULA

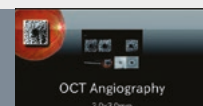


3D Macula OU Report

3D Macula report available for single or both eyes.
Analysis over a 6x6mm scan area including retinal thickness and
reference data comparison.



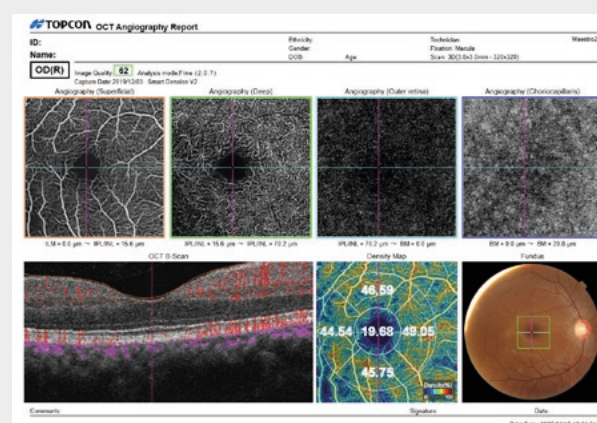
OCTA*



OCT Angiography Report

Various OCTA scan protocols are available; 3x3mm, 4.5x4.5mm and 6x6mm, to support the visualization of vascular structures.

* OCTA is optional. Please check with your local Topcon distributor.



Glaucoma Related Reports

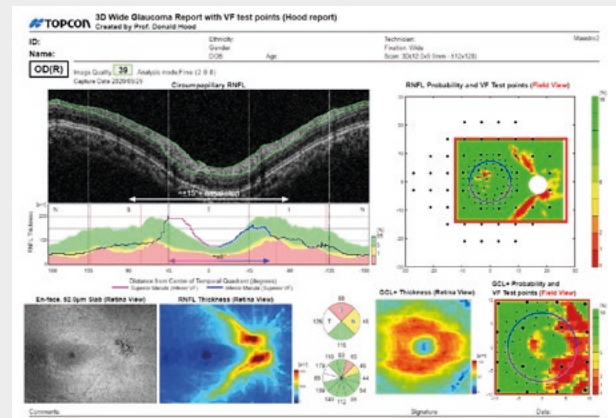
The Hood report for Glaucoma is often the report of choice following capture of a 3D wide scan but a choice of reports are available, including the 3D Wide Glaucoma Report.

GLAUCOMA



Hood Report for Glaucoma

Based on the 3D Wide Horizontal scan, this report provides a comprehensive overview of OCT data to support glaucoma diagnosis, including RNFL and GCL+ thickness maps, and probability maps with visual field test locations.

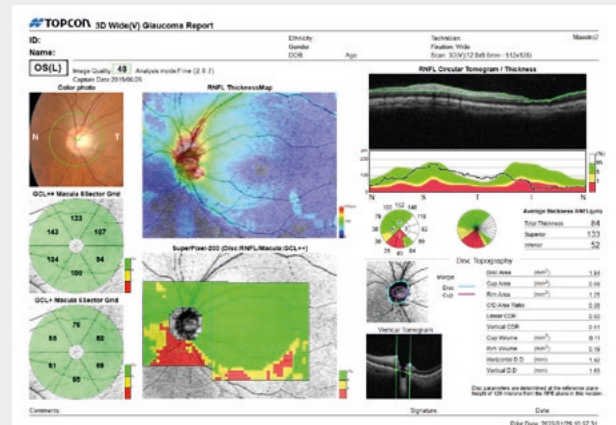


GLAUCOMA



3D Wide Glaucoma Report (12mmx9mm)

This scan covers the macula and optic nerve head in one report, providing thickness and reference data comparison for GCL+, GCL++ and RNFL.

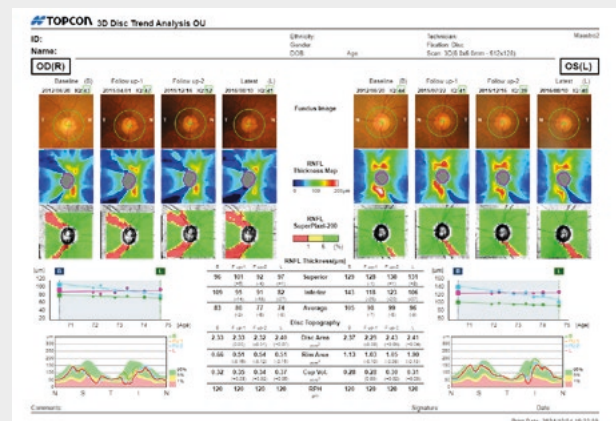


GLAUCOMA



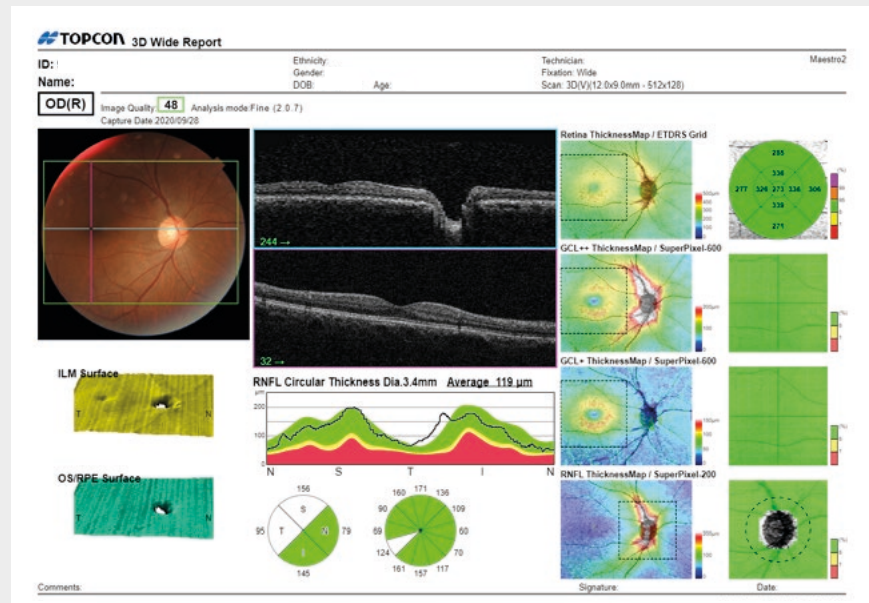
3D Disc Trend Analysis Report OU

Baseline and subsequent visits can be compared over time. Trends are provided for regional thickness measurements, along with reference database comparison.



Widefield OCT Scan

The Maestro2 can capture a 12mmx9mm widefield OCT scan, encompassing both the macula and optic disc. Ideal for an annual eye exam, the scan reduces patient testing time and makes it easier to interpret potentially glaucomatous changes affecting the disc and macular regions. It provides thickness and reference data for the retina, RNFL and ganglion cell layers, together with the option for a Glaucoma report, also incorporating disc topography.



GCL+: The thickness of GCL and IPL layers
GCL++: The thickness of GCL, IPL and RNFL layers

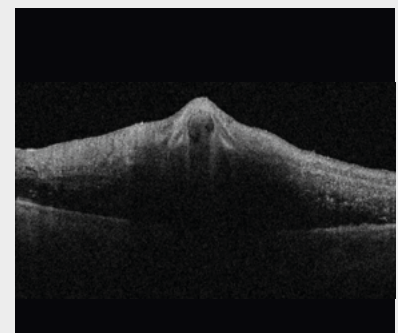
Follow-Up Scans

For more localised lesions, tracking based on the reference image allows follow-up scans to be performed.

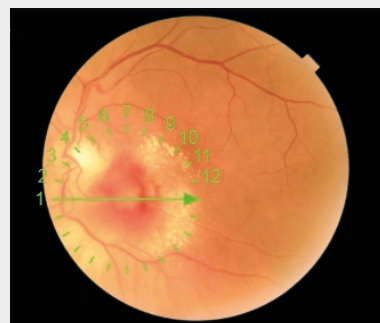
Tracking is used to capture exactly the same area at each visit and is available for 3D scans, single line, radial or 5 line cross scans.



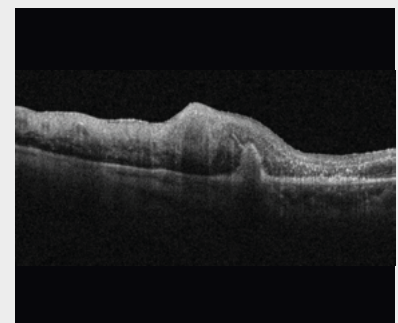
Baseline - Colour fundus



Baseline - B-scan



Follow-Up - Colour fundus



Follow-Up - B-scan

Image courtesy: Dr Patrick SPORTIELLO, MD, FEBO
-Ophthalmology Practice, Issoire, France

True Colour Fundus Photography⁹

An integrated true colour fundus camera enables simultaneous capture of the OCT image and fundus photo. PinPoint™ Registration allows multimodal observation of suspected pathology. Small pupil mode and fundus-only capture are also available.

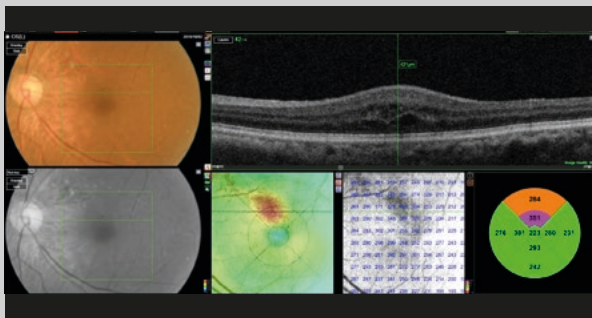


Image courtesy: Michael H. Chen, O.D.

Peripheral Fundus Photography

Automatically select up to nine standard fields or manually manipulate the patient's fixation then create a mosaic image with IMAGENet®6.

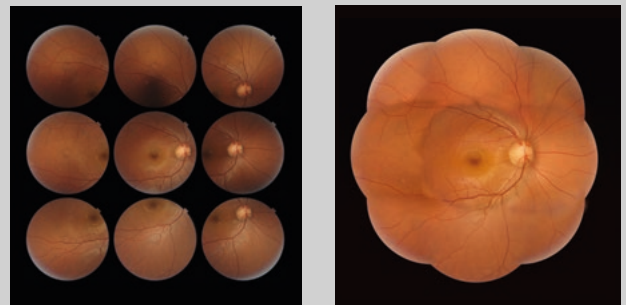
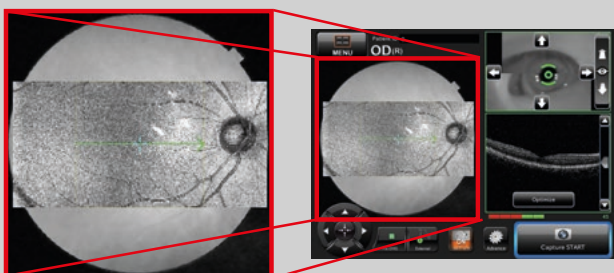


Image courtesy: Michael H. Chen, O.D.

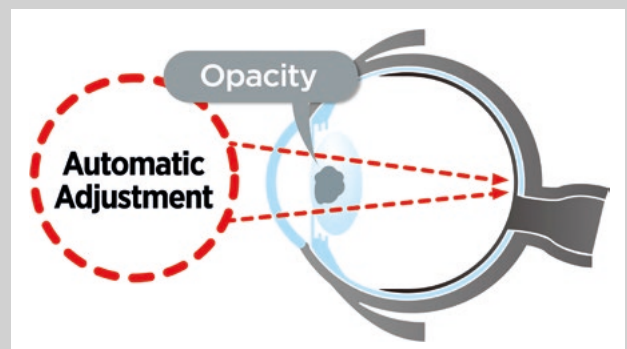
Live Fundus View™ (LFV)

OCT-LFV is a live projection image of the retina that makes the disc, retinal vessels and scanning position easy to see during capture.



Cataract Mode

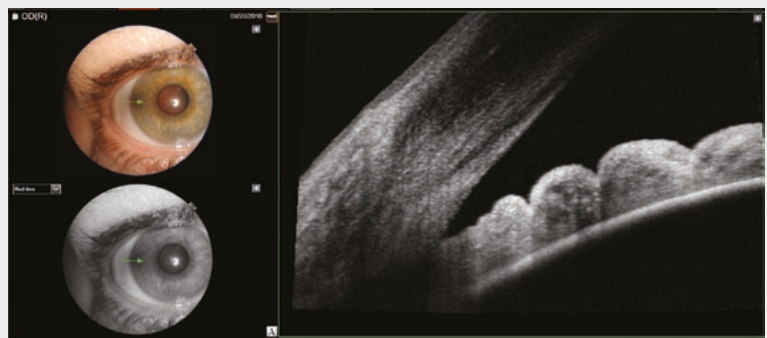
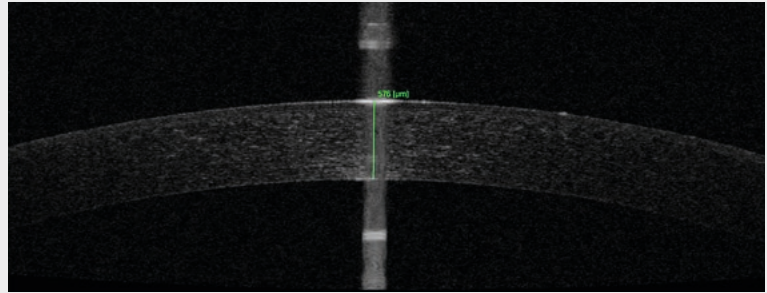
Cataract mode automatically adjusts the scanning position to minimize the impact of any opacities such as cataracts.



Anterior Segment OCT

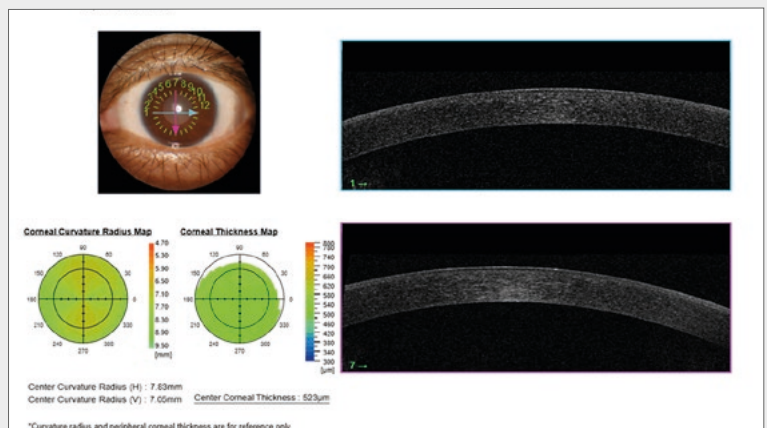
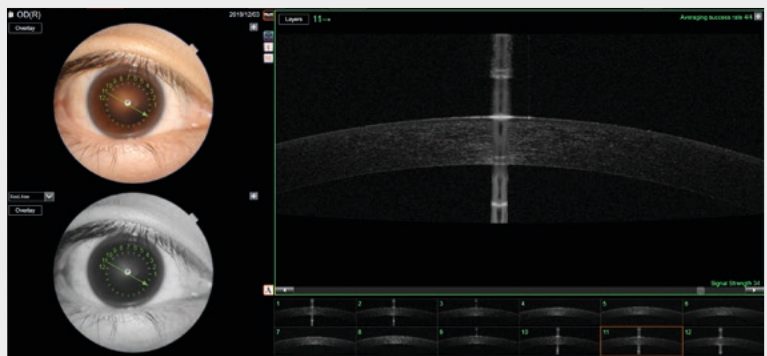
Anterior Segment Caliper/ Angle Measurement¹⁰

Maestro2 has the added advantage of Anterior Segment OCT scanning capability, without the need for an additional attachment lens. By simply adding the optional anterior headrest support, the Maestro2 is able to capture corneal and anterior chamber scans, together with the ability to measure corneal thickness and anterior segment angle using the integrated caliper tools.



Corneal Thickness Analysis

Corneal thickness analysis displays the B-scans alongside the corneal thickness and anterior curvature maps on the report.



¹⁰ In order to activate the anterior scanning function, the optional anterior segment attachment (HA-2) is needed.

Item	Specifications		
Observation & photography of the fundus			
Type of photography	Colour, Red-free ^(Note 1) & IR ^(Note 3)		
Picture angle for photography	45° ± 5% or less 30° or equivalent (digital zoom)		
Operating distance	34.8 ± 0.1mm (when taking a picture of fundus)		
Photographable diameter of pupil	Normal pupil diameter: ø4.0mm or more Small pupil diameter: ø3.3mm or more		
Fundus image resolution (on fundus)	Centre : Middle (r/2) : Middle (r) : IR photography :	60 lines/mm or more 40 lines/mm or more 25 lines/mm or more Centre: 5 lines/mm or more ^(Note 3)	
Observation & photographing of the fundus tomogram			
Scan range (on fundus)	Horizontal direction Vertical direction	3 – 12mm ±5% or less 3 – 9mm ±5% or less	
Scan patterns	3D scan (horizontal/vertical) Linear scan (Line-scan/Cross-scan/Radial-scan)		
Scan speed	50,000 A-Scans per second		
Lateral resolution	20µm or less		
In-depth resolution	6µm or less Pixel spacing: 2.6µm ±2%		
Photographable diameter of pupil	ø2.5mm or more		
Observation & photographing of the fundus image/fundus tomogram			
Fixation target	Internal fixation target: Dot matrix type organic ELD display. The display position can be changed and adjusted. The displaying method can be changed. Peripheral fixation target: This is displayed according to the internal fixation target displayed position. External fixation target		
Observation & photographing of anterior segment			
Type of photography	Colour & IR ^(Note 3)		
Operating distance	62.6 ± 0.1mm (when taking a picture of anterior segment) ^(Note 2)		
Observation & photographing of the anterior segment tomogram			
Operating distance	62.6 ± 0.1mm (when taking a picture of anterior segment) ^(Note 2)		
Scan range (on cornea) ^(Note 2)	Horizontal direction Vertical direction	3 – 6mm ± 5% or less 3 – 6mm ± 5% or less	
Scan pattern	Linear scan (Line-scan/Radial-scan)		
Scan speed	50,000 A-Scans per second		

(Note 1) Digital red-free photography that processes a colour image and displays it in pseudo-red-free condition

(Note 2) When the attachment for anterior segment is included in the system configuration

(Note 3) This is used only for recording the position where a tomogram is captured

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IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.



CLASS 1 LASER PRODUCT
(IEC 60825-1:2014)
PRODUIT LASER DE CLASSE 1
(CEI 60825-1:2014)

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