

Specifications

Observation & Photography of Fundus Image

Scan Mode	Color, Red-free*
Picture Angle	45°/30° or equivalent (digital zoom)
Operating Distance	34.8mm (in fundus photography) 62.6mm(in anterior segment photography**)
Photographable Diameter of Pupil	45°: ϕ 4.0mm or more Small pupil diameter: ϕ 3.3mm or more
Observation & photographing of the fundus/anterior segment tomogram	
Scan Range	(on fundus)
	(on cornea)
Scan Speed	50,000 A-Scans per second
Lateral Resolution	20 μ m
In-depth Resolution	6 μ m
Photographable diameter of Pupil	ϕ 2.5mm or more
Internal Fixation Target	Dot matrix type organic EL (The display position can be changed and adjusted. The presenting method can be changed.)

Electric Rating

Source Voltage	AC 100-240V
Power Input	70-150VA
Frequency	50Hz-60Hz

Dimensions and Weight

Dimensions	307-442mm (W) \times 472-668mm (D) \times 518-722mm (H)
Weight	21kg

* Display digital Red-free **Anterior scanning is option. With anterior segment attachment.

Flexible Layout

3D OCT-1 Maestro is incorporated with flexible touch panel monitor. This allows you to operate the machine with supporting patient at side or from the back. Furthermore it allows to optimize the practice room by setting against the wall or in the corner.

Its compact designed body and small footprint can be installed on a small table and even on a refraction stand.



CLASS 1 LED PRODUCT
(IEC60825-1:2001)

* Not available for sale in the United States.
* Not available in all countries, please check with your distributor for availability in your country
* Subject to change in design and/or specifications without advanced notice.

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



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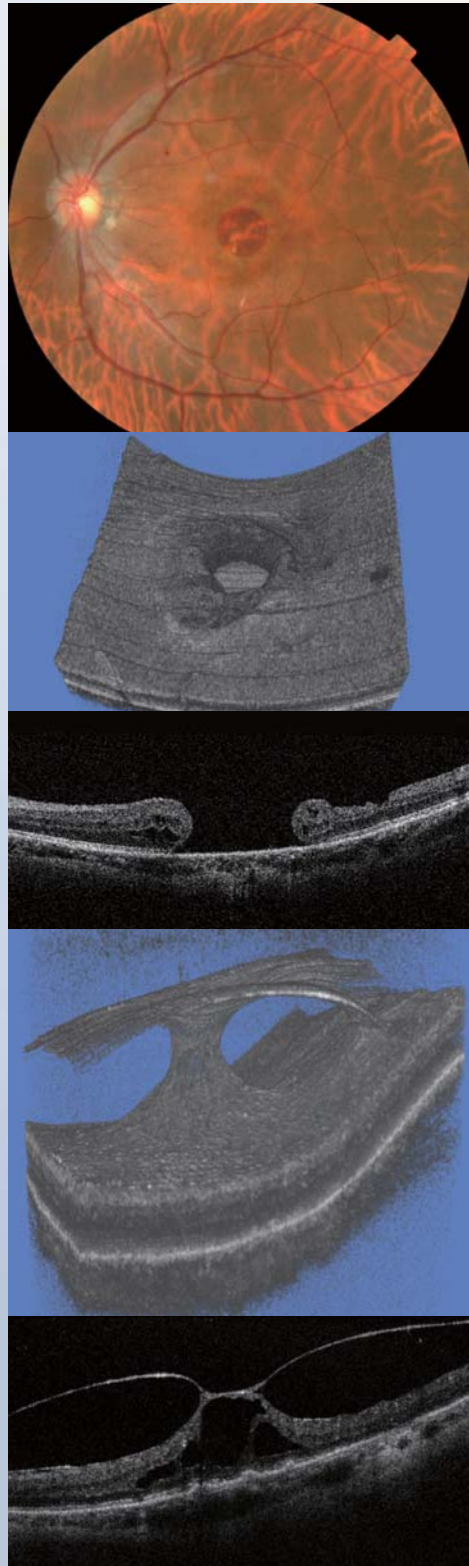


3D OCT-1 Maestro

Optical Coherence Tomography

PERFORMANCE
YOU CAN COUNT ON





The OCT World at Your Fingertips

TOPCON based on its innovative OCT history has been aiming for the new OCT which is more comfortable for patients, optimally easy-to-use, more suitable for today's ophthalmology diagnosis. The completely new OCT, only TOPCON would propose, is 3D OCT-1 Maestro.





3D OCT-1 Maestro

3D OPTICAL COHERENCE TOMOGRAPHY

The OCT World at Your Fingertips

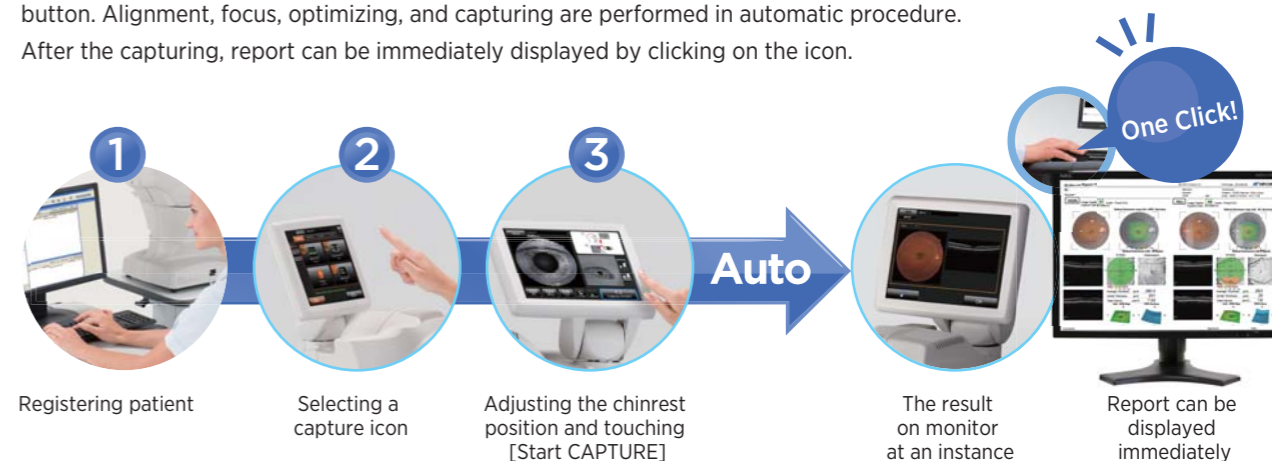
Features

- » Fully-automatic OCT with simple finger touch
- » Rich analysis and report functions
- » Reliable assistance for scanning
- » High quality, high resolution OCT and color fundus image
- » Seamless network solution
- » Compact footprint and flexible layout

Fully-automatic OCT with Simple Finger Touch

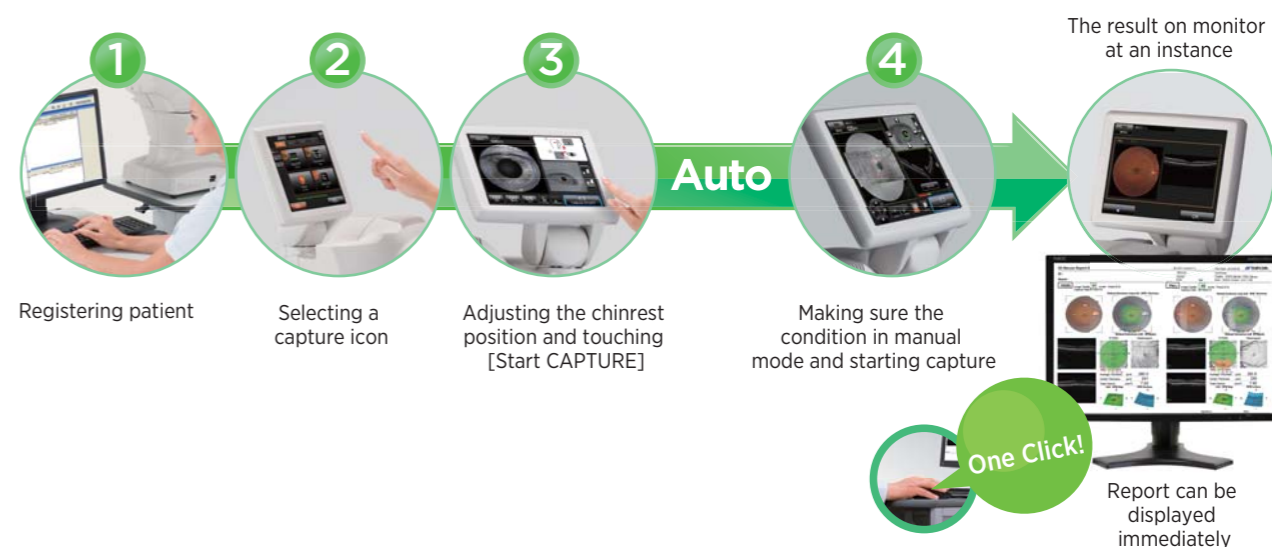
Full-auto Capturing

3D OCT-1 Maestro requires nothing more than to touch the capture icon and [Start Capture] button. Alignment, focus, optimizing, and capturing are performed in automatic procedure. After the capturing, report can be immediately displayed by clicking on the icon.



Semi-auto Capturing

With semi-auto capturing, 3DOCT-1 Maestro completes alignment, focus and optimizing automatically, then allows for an operator to start capturing at any convenience. This enables to easily find the best timing to capture with communicating with patients even in difficult cases.

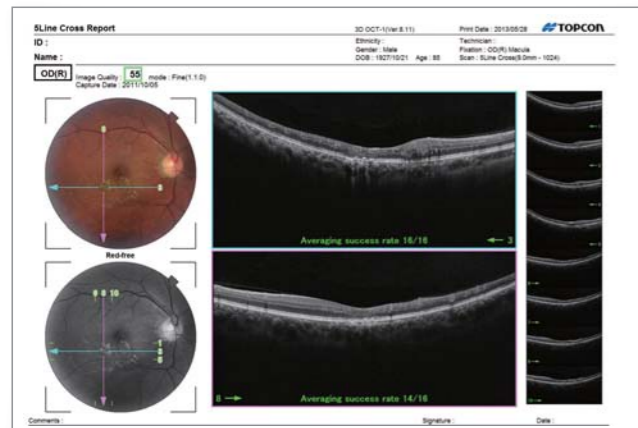
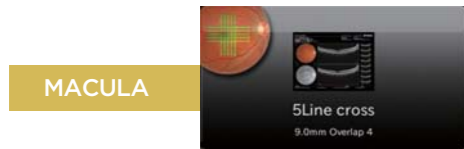


Stereo-matching Automatic Alignment™

TOPCON's unique alignment technology realizes the quick and stable alignment.

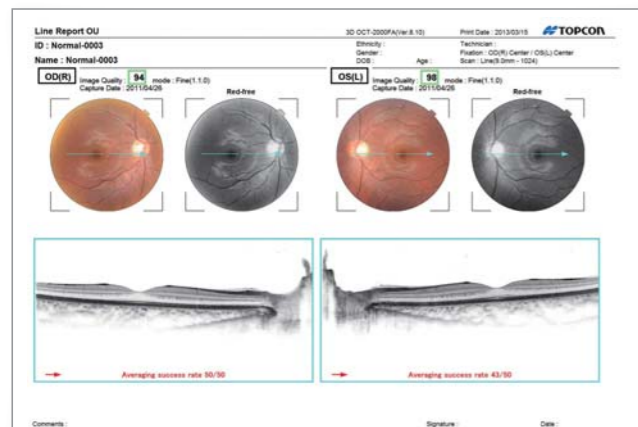
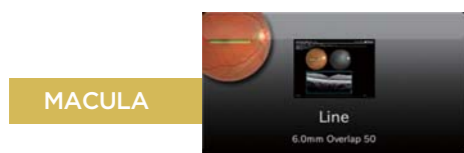


Control lever is no more required.



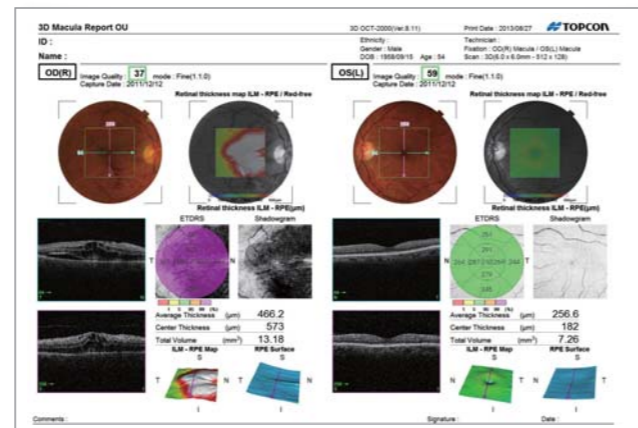
5 Line Cross Scan

This scans with 5 line scan horizontally and vertically in an instant. This is useful for screening and for follow-up as it does not miss the target position by quick scanning.



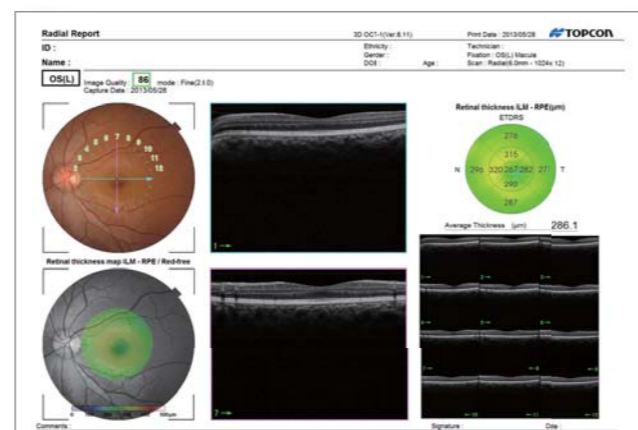
Line Scan

This enables high resolution B scan with maximum 50 slices' overlapping.



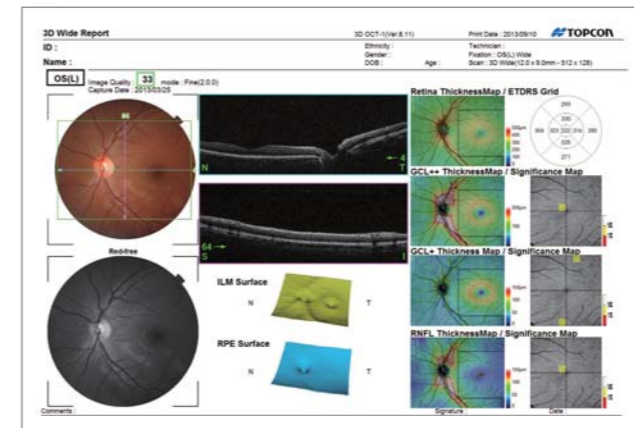
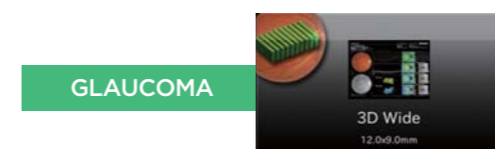
3D Macula Analysis

Horizontal box scan in macula area. 3D imaging is useful to understand the whole and precise form of fovea area. Thickness map and normative database for retina thickness is available.



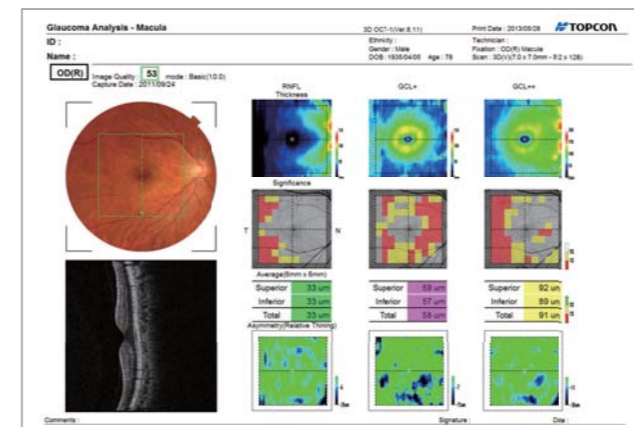
Radial Scan

This enables to quickly understand the whole condition of the target area with 12 radial scans.



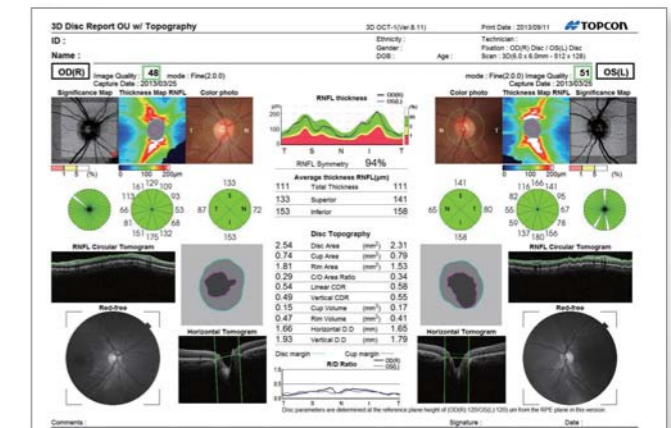
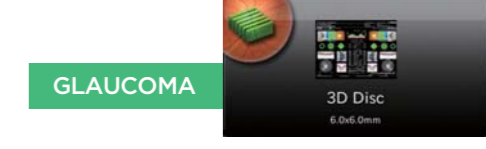
3D Wide Scan (12mm x 9mm)

This allows to screen from fovea to optic nerve by single scanning. Thickness maps of RNFL, GCC and retina are available.



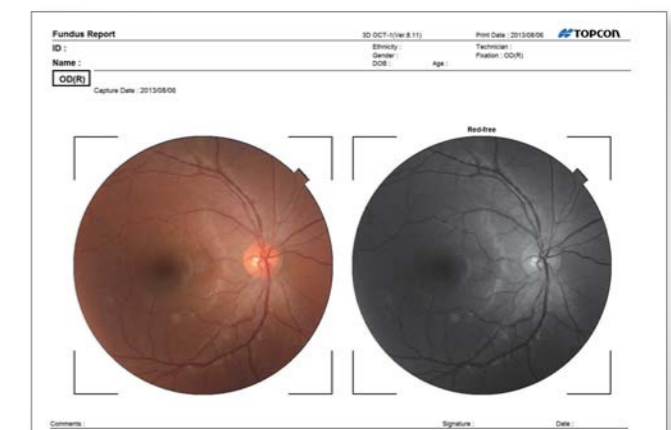
3D Macula (V) Glaucoma Analysis

Vertical box scan in macula area. GCC analysis is available and normative database for RNFL, GCC and retina thickness is incorporated.



3D Disc Analysis

Disc topography which combines fundus photography and various peripapillary parameters and RNFL thickness is available. The normative database for RNFL is also incorporated.

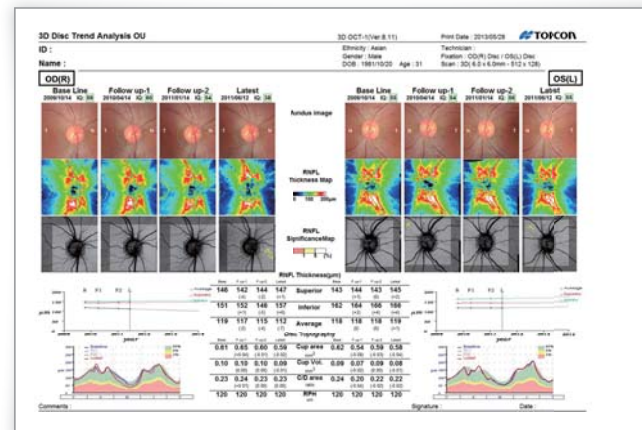


Color Fundus Photography / Peripheral Fundus Photography

Non mydriatic color fundus photography is possible. Report template* is ready for Color Fundus Photography. Peripheral fundus photography is also available.

*Depends on Fastmap setting

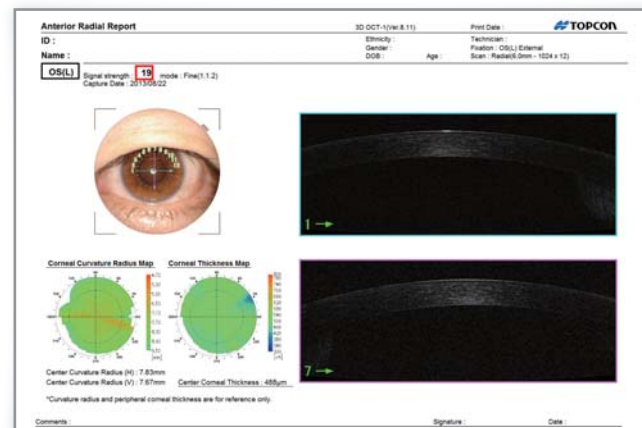
GLAUCOMA



Trend Analysis (RNFL)

Maximum 4 3D disc scans can be compared and analysed periodically. Useful for glaucoma follow up.

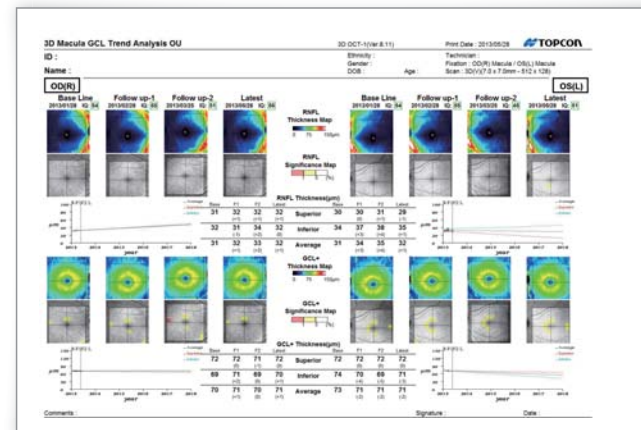
Anterior



Anterior Radial Scan*

This allows to check the central cornea condition in 12 radial scan. Corneal curvature map and corneal thickness map is also available.

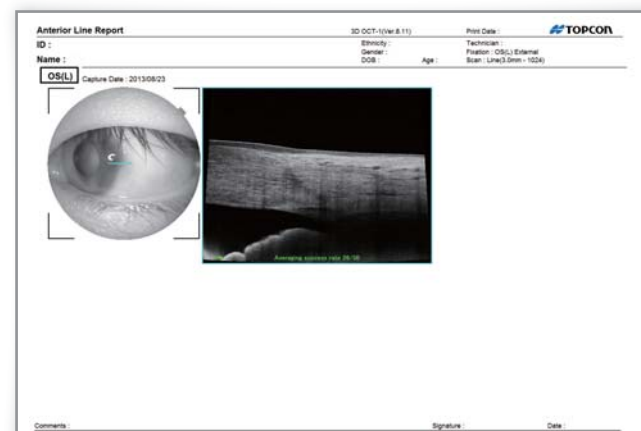
GLAUCOMA



Trend Analysis (GCL)

Maximum 4 3D macula (V) scans can be compared and analysed periodically. Useful for preperimetry glaucoma follow-up.

Anterior



Anterior Line Scan*

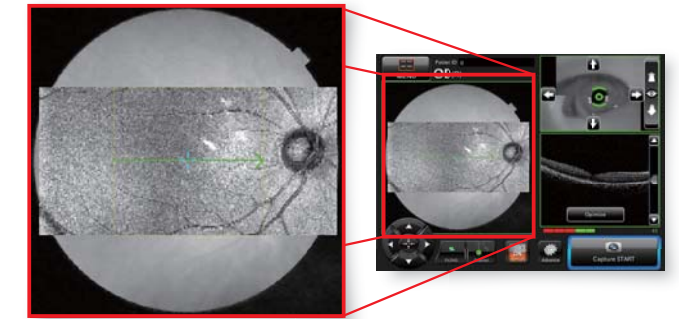
This allows to observe the Angle area.

Ease of Use for Capturing Small Pupils

— Live Fundus View™ (OCT-LFV)

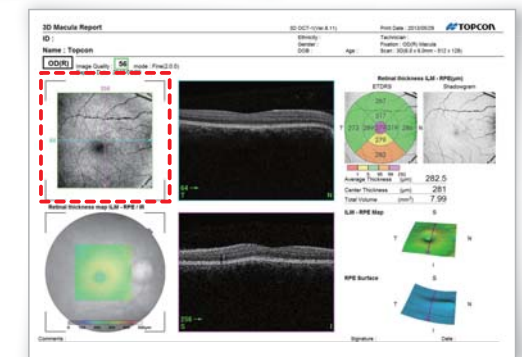
OCT-LFV image, which is a live projection image with reflection at retina, will show the live Fundus image clearly even in cases of small pupils. Disc, retinal vessels and scanning position is very easy to see.

* Photographable Diameter of Pupil: ϕ 2.5mm



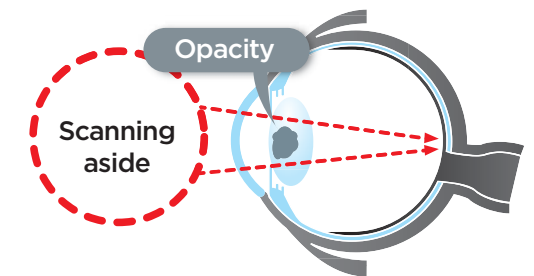
— 3D scan without colour fundus photography

3D OCT-1 Maestro employs 3D scan with/without colour Fundus photography at your convenience in order to avoid miotic response, or to facilitate capturing small pupil patients. It also enables you to capture several scan protocols in one order.



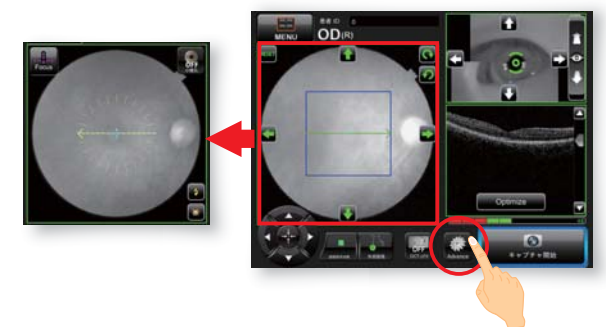
Cataract Mode

Cataract mode will automatically move the scanning position on upper/lower (or L/R) area. This is effective when a patient has some cloudiness in the optic media.



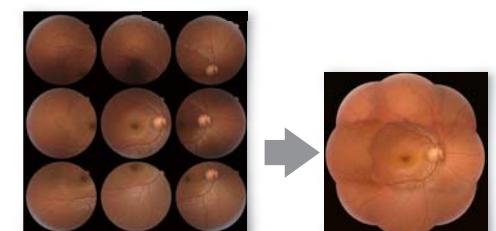
Manual Mode

Depending on pathology or on patient's condition, automatic scanning shall be avoided. In such cases, manual mode will help to adjust alignment and scanning position. Variety of functions are available and all are smoothly operated on touch panel monitor.



Peripheral Fundus Photography

4/8 points of peripheral fixation points are added. By using these fixation points, wider fundus coverage can be photographed. With optional software, panoramic graphic can be created.**

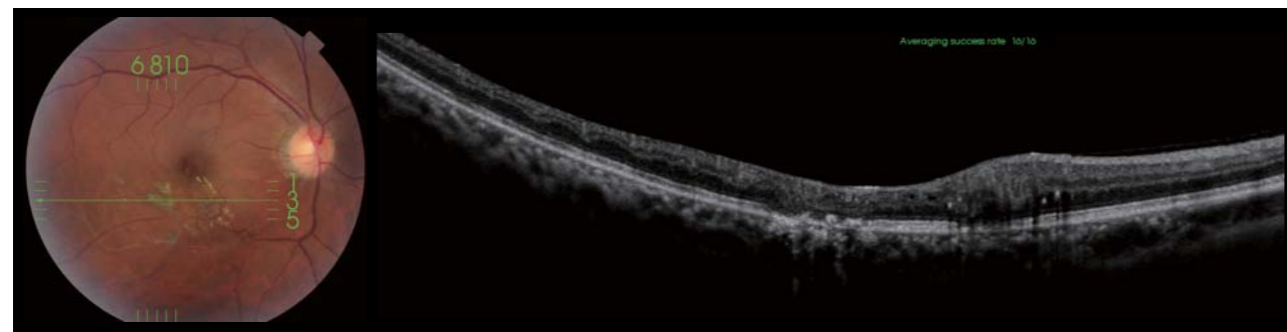


*Anterior scanning is option. Anterior segment attachment is required

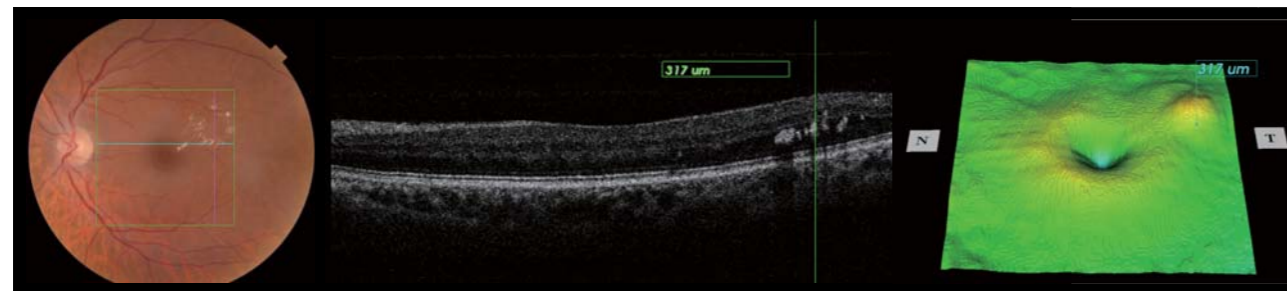
** IMAGEnet R4 is optional software

50,000 A-scans/sec. speed produces fine B scan and smooth 3D graphics, which facilitates the observation of pathology form and condition on each layers. High quality color fundus photography gives fundamental and additional information. The OCT and color fundus can be said to be the inseparable combination for daily diagnosis.

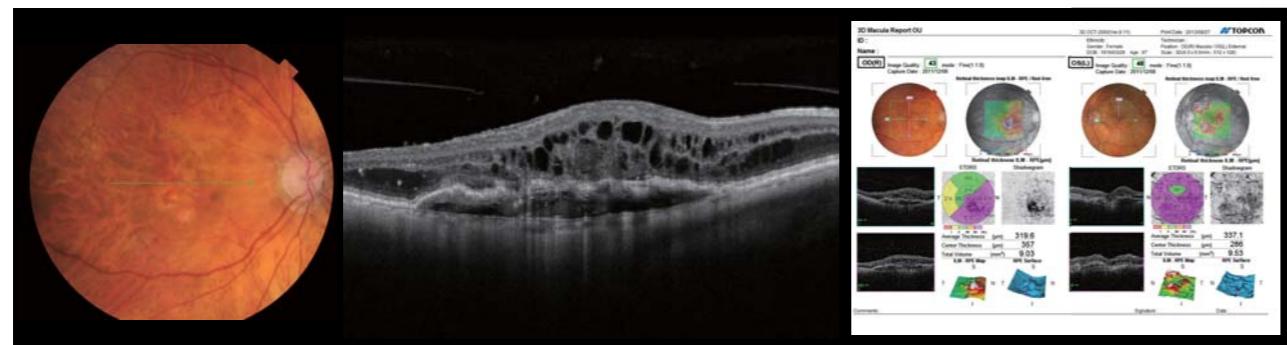
With IMAGENet™ R4, OCT data will be managed together with refraction data and other imaging data such as slitlamp and fundus camera. Now with IMAGENet™ Web Viewer, OCT data can be easily viewed from any other PC in network.



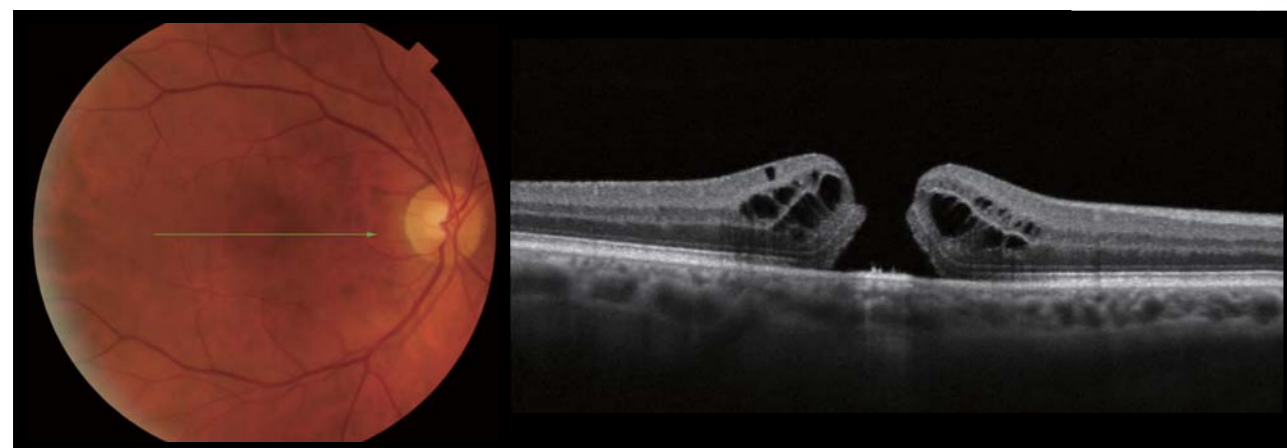
85-years old, male, OD. Branch Retinal Vein Obstruction.



62-years old, male, OS, Diabetic Retinopathy and circinate exudate



97-years old, female, OD, Age Related Macular Degeneration



71-years old, male, OD, Macular hole (full thickness)

