TOPCON

3D OCT-1 Maestro

Optical Coherence Tomography

DEVICE TECHNOLOGIES

Pioneering Possibility.

3D OCT-1 Maestro
3D OPTICAL COHERENCE TOMOGRAPHY
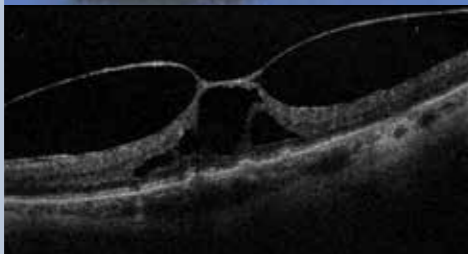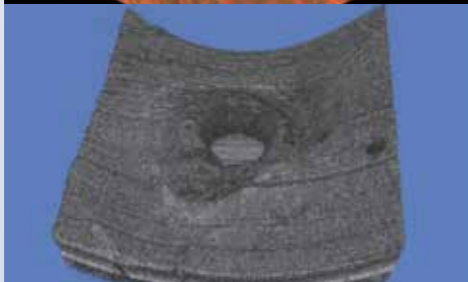
The OCT World
at Your Fingertips

With an extensive background in OCT technology,
TOPCON is aiming to create an OCT which is
comfortable for patients, easy-to-use, and suitable
for quality ophthalmic diagnosis.

3D OCT-1 Maestro
3D OPTICAL COHERENCE TOMOGRAPHY

The OCT World at Your Fingertips

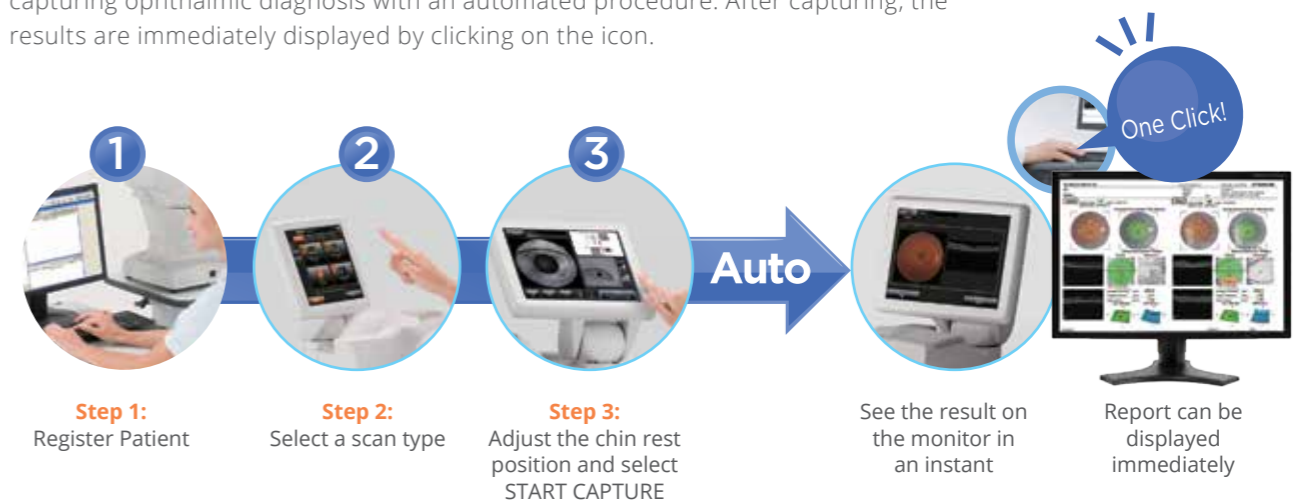### Features
» Fully-automatic OCT with Touch Screen control
» Rich analysis and detailed report functions
» Reliable assistance for scanning and capture processes
» High quality, high resolution OCT and colour fundus image
» Seamless network solutions
» Compact footprint and flexible layout

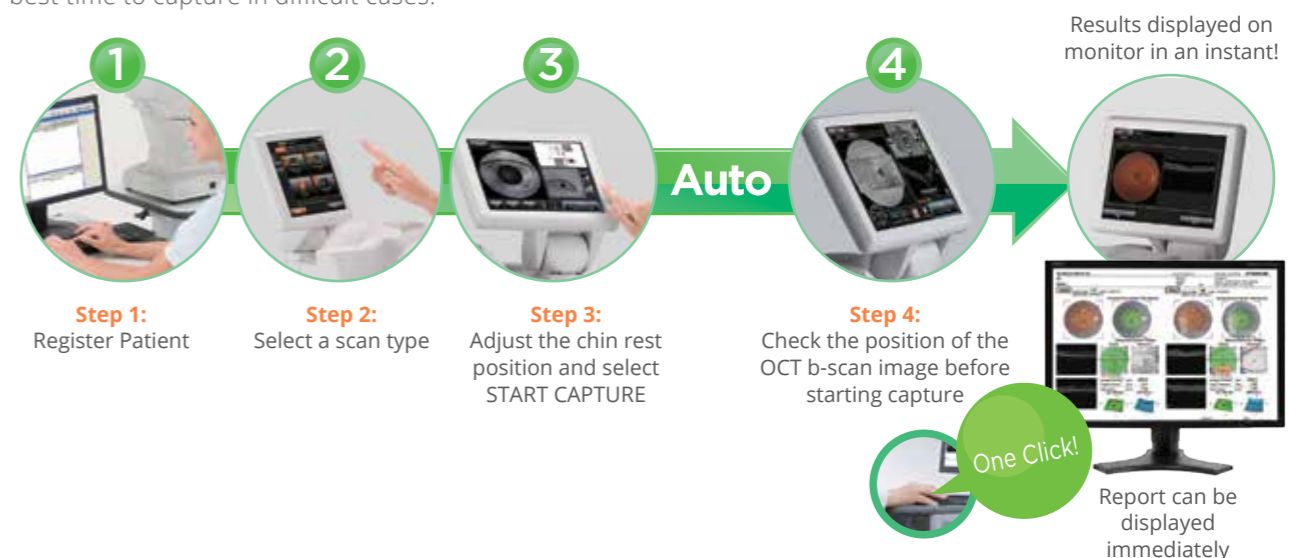# Fully-automatic OCT with Touch Screen Control

Full-auto Capturing
3D OCT-1 Maestro is easy to use, specialising in alignment, focusing, optimising and capturing ophthalmic diagnosis with an automated procedure. After capturing, the results are immediately displayed by clicking on the icon.

Step 1: Register Patient
Step 2: Select a scan type
Step 3: Adjust the chin rest position and select START CAPTURE
See the result on the monitor in an instant
Report can be displayed immediately

Semi-auto Capturing
For a semi-auto capturing procedure, the 3D OCT-1 Maestro completes alignment, focusing and optimising automatically, allowing the operator to start capturing at their convenience. This allows for effective communication with the patient, and to find the best time to capture in difficult cases.

Step 1: Register Patient
Step 2: Select a scan type
Step 3: Adjust the chin rest position and select START CAPTURE
Step 4: Check the position of the OCT b-scan image before starting capture
Results displayed on monitor in an instant!
Report can be displayed immediately

Stereo-matching Automatic Alignment™
TOPCON's innovative alignment technology allows for quick and stable alignment
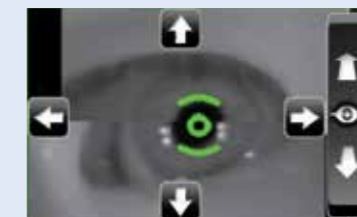
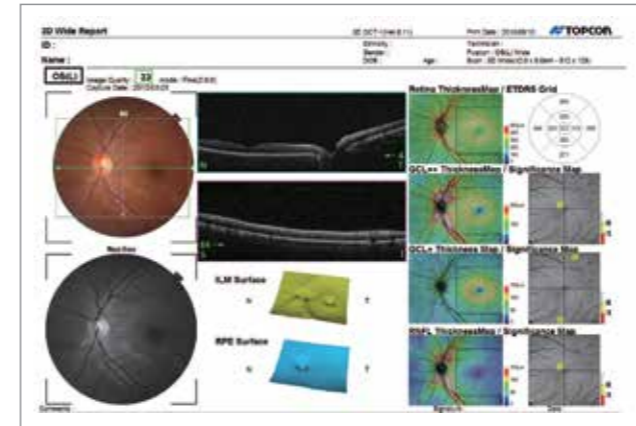Control Lever is no longer required.

Complete OCT Functionality

MACULA

5 Line Cross Scan
This scans with a 5-Line scan, horizontally and vertically, in an instant. This process is useful for screening and for follow-up, as it does not miss the target position by quick scanning.
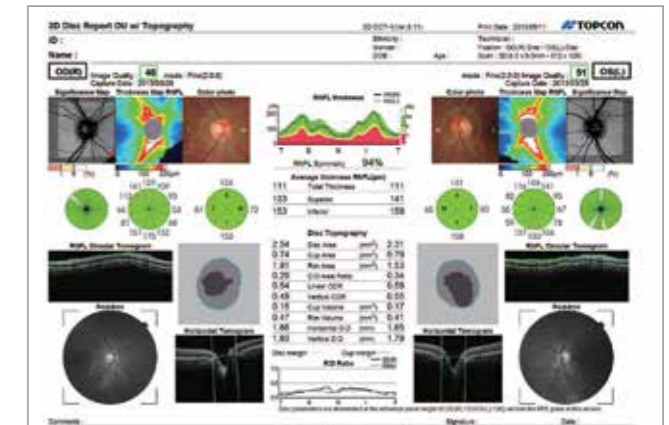
MACULA

Line Scan
The Line Scan enables high resolution B Scan with a maximum of fifty slices' overlapping.

MACULA

3D Macula Analysis
Horizontal box scan, with a focus on the macula area. 3D imaging helps to understand the precise form of the fovea area. The analysis also provides a thickness map and normative database for retinal thickness.

MACULA

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

GLAUCOMA

3D Wide Scan (12mm x 9mm)
3D Wide Scan allows you to screen from the fovea to the optic nerve in a single scan. Thickness maps of RNFL, GCC and retina are available.
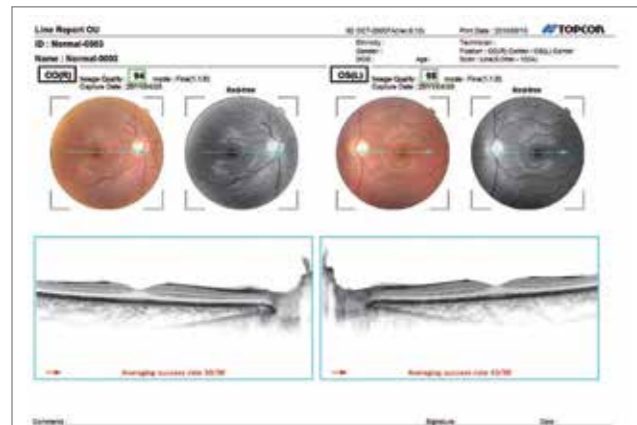
GLAUCOMA

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.

GLAUCOMA

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.
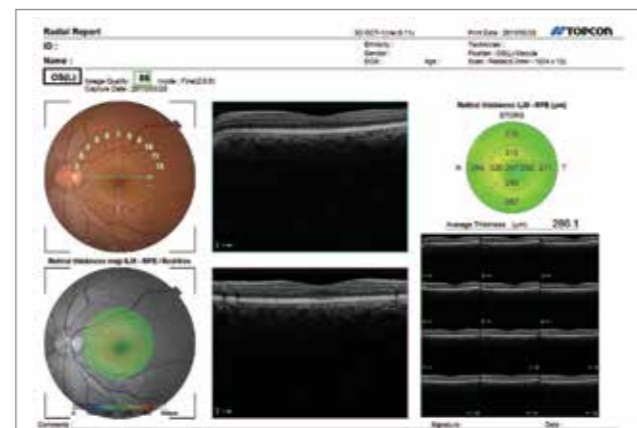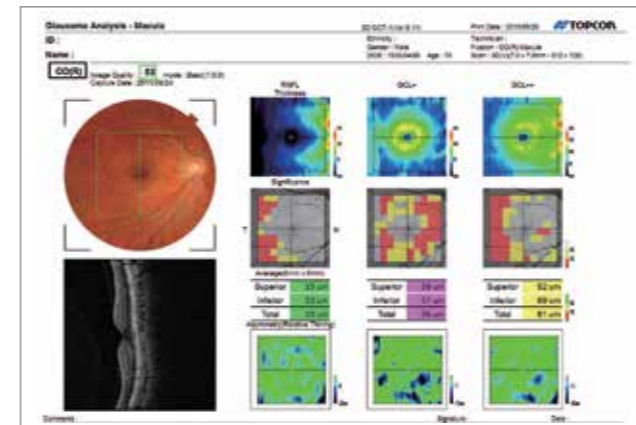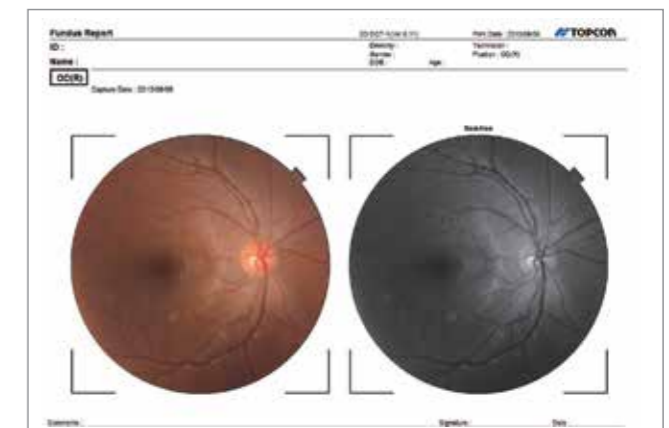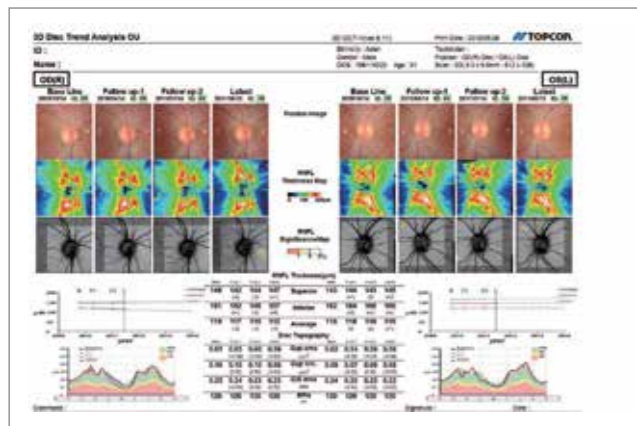
Colour Fundus Photography/ Peripheral Fundus Photography
Non mydriatic colour fundus photography is possible. Report template* is ready for Colour Fundus Photography. Peripheral fundus photography is also available.

* Depends on Fastmap setting
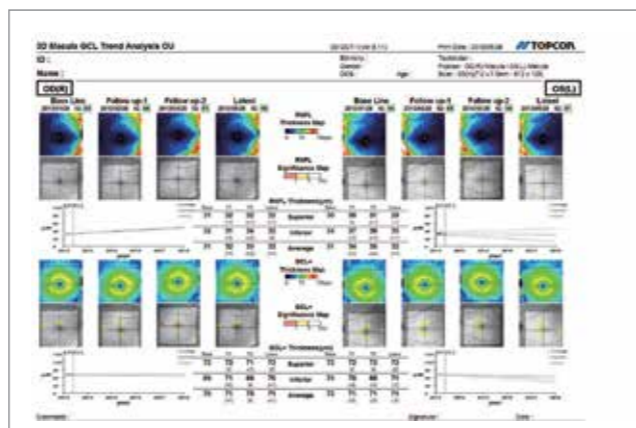
Complete OCT Functionality

GLAUCOMA

3D Disc

Trend Analysis (RNFL)
Maximum 4 3D disc scans can be compared and analysed periodically. Useful for glaucoma follow up.
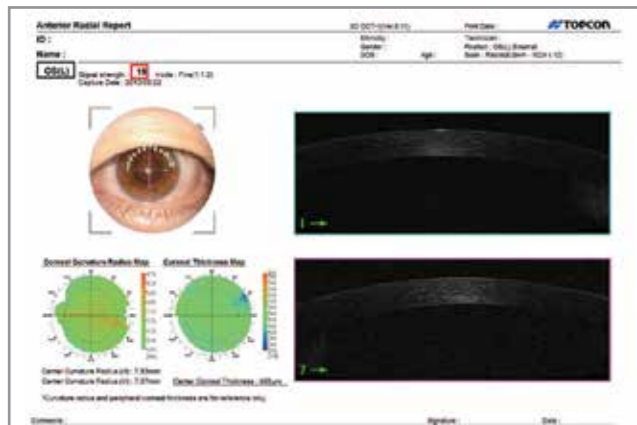
GLAUCOMA

3D Macula(V)

Trend Analysis (GCL)
Maximum 4 3D macula (V) scans can be compared and analysed periodically. Useful for preperimetory glaucoma follow-up.
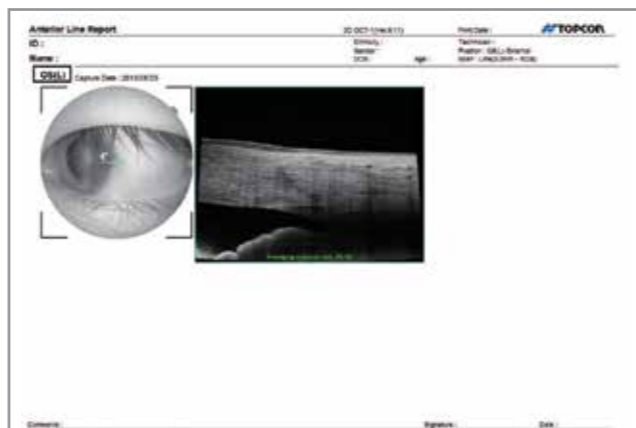
Anterior

Radial Anterior seg.

Anterior Radial Scan*
This allows you to check the central cornea condition in 12 radial scan. Corneal curvature map and corneal thickness maps are also available.

Anterior

Line Anterior seg.

Anterior Line Scan*
This allows you to observe the Angle area.

Reliable Scanning Assistance

Ease of Use for Capturing Small Pupils

— Live Fundus Viev./ (OCT-LFV)

OCT-LFV is a live projection image with a reflection at the retina, allowing for a live, clear Fundus image, even in cases of small pupils. Disc, retinal vessels and scanning position also easy to visualise.

* Photographable Diameter of Pupil: Ø 2.5 mm
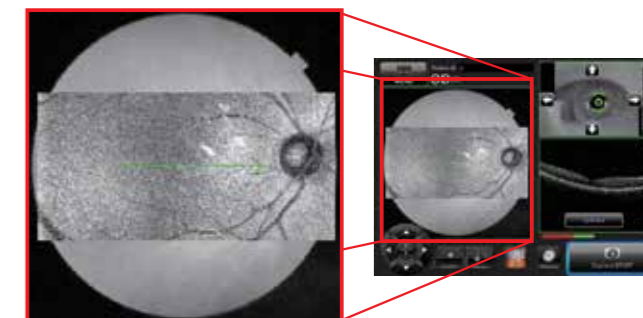
— 3D scan without colour fundus photography

The 3D OCT-1 Maestro can be operated without the colour fundus camera in the 3D scan. This eliminates the miotic pupil response from the camera flash when imaging patients with small pupils.
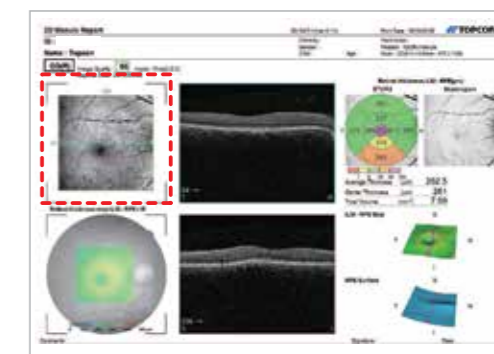

Cataract Mode
Cataract mode will automatically move the scanning position on upper/lower (or L/R) area. This is effective when a patient has some cloudiness in the optic media.


Opacity

Scanning aside
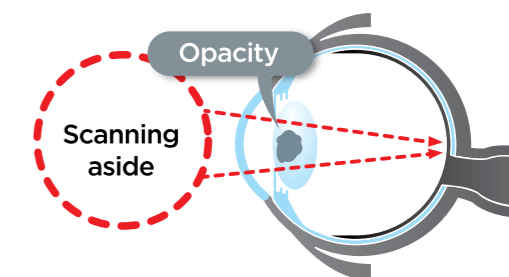
Manual Mode
Depending on pathology or on the patient's condition, automatic scanning can be avoided. In such cases, manual mode will help to adjust alignment and scanning position. A variety of functions are available and all can be smoothly operated from the touch panel monitor.
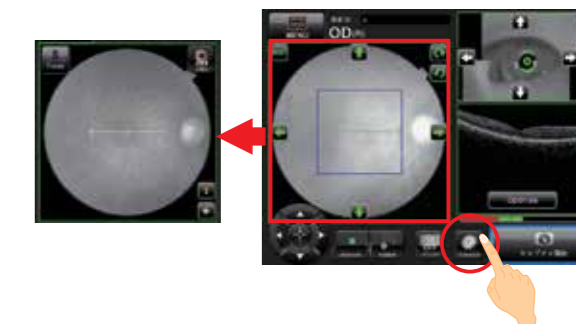

Peripheral Fundus Photography
4/8 points of peripheral fixation points are added. By using these fixation points, wider fundus coverage can be photographed. With optional software, panoramic graphics can be created.**
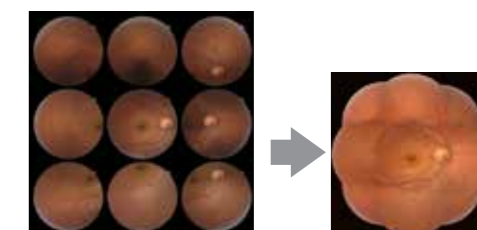

* Anterior scanning is optional. Anterior segment attachment is required
** IMAGEnet R4 is optional software

# High Quality / High Resolution OCT and Colour Fundus Photography

Providing over 50,000 A-scans per second, the OCT produces a fine B scan image and smooth 3D graphics, which facilitates the observation of pathology formation and the condition of each layer. High quality fundus photography also provides fundamental information, providing a quality combination for daily diagnosis.
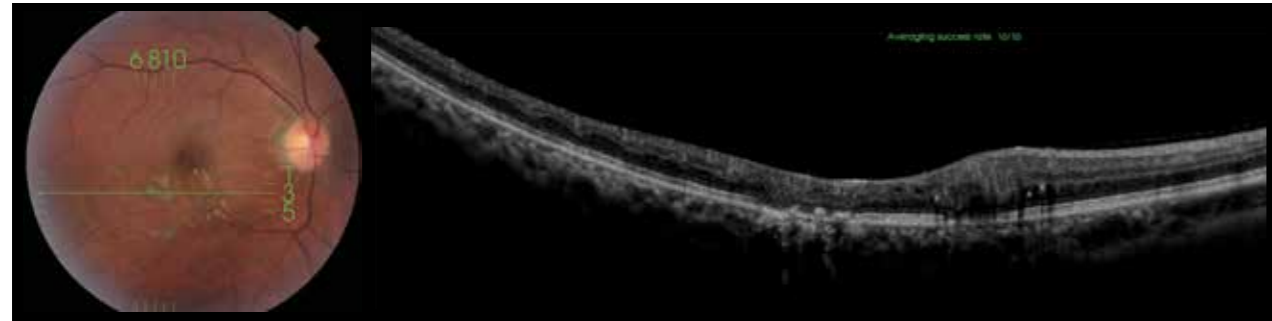
85-years old, male, OD. Branch Retinal Vein Obstruction.
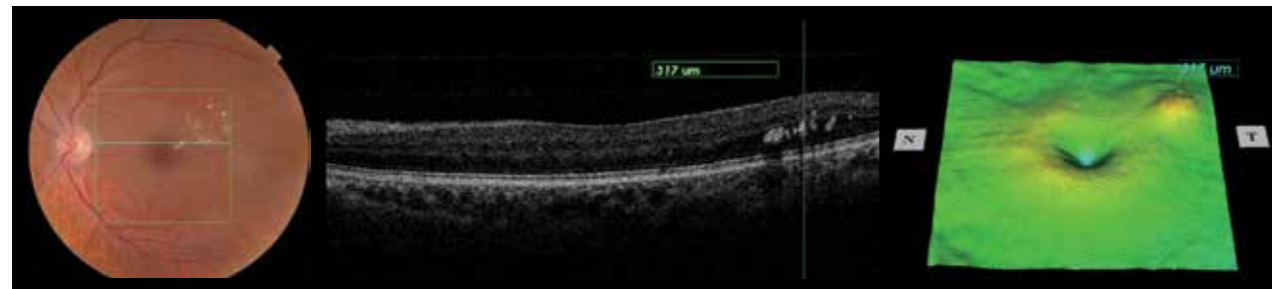
62-years old, male, OD. Diabetic Retinopathy and circinate exudate.
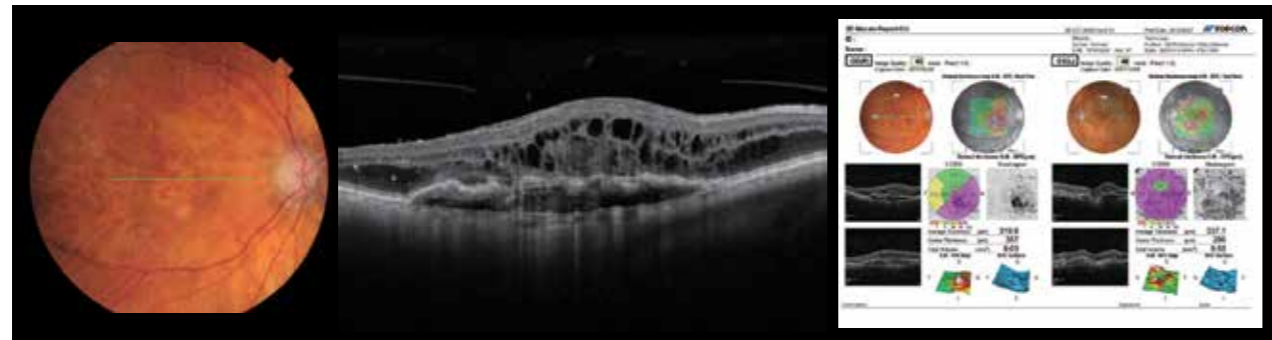
97-years old, female, OD, Age Related Macular Degeneration.
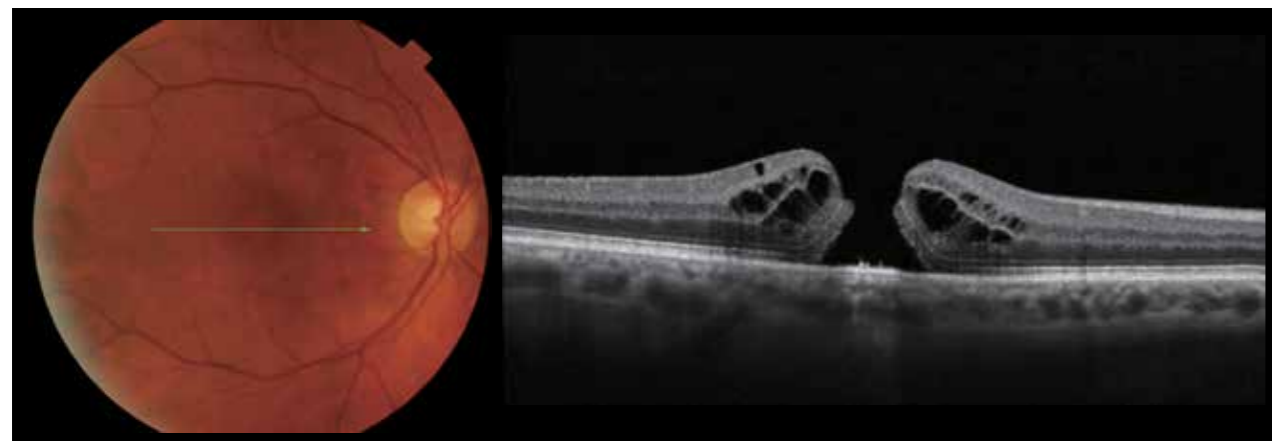
71-years old, male, OD Macular hole (full thickness).

Complete OCT Functionalities

When using IMAGEnet software, the OCT data can be managed together with refraction data and other imaging data, such as slitlamp and fundus cameras. With the IMAGEnet Web Viewer, the OCT data can easily be viewed from any other PC on the network.

VA Test Room

Examination Room

Imaging Room

Doctors Room

Operation Room

Consultation Room

Laser Treatment Room

IMAGEnet™ Web Viewer
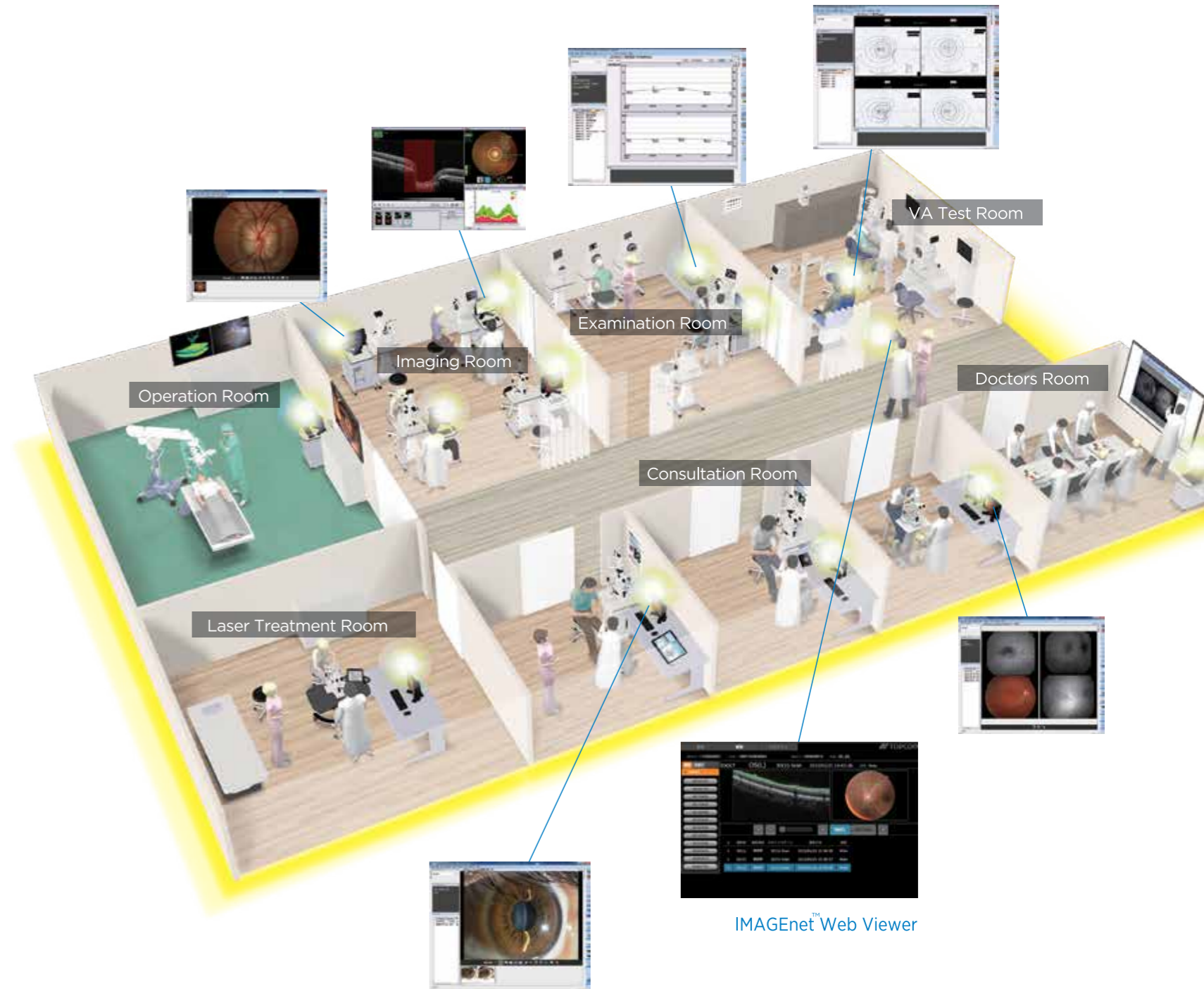
Specifications

Observation & Photography of Fundus Image

Scan Mode	Color, Red-free*
Picture Angle	45°/30° or equivalent (digital zoom)
Operating Distance	34.8 mm (in fundus photography) 62.6 mm (in anterior segment photography**)
Photographable Diameter of Pupil	45°: Ø 4.0mm or more Small pupil diameter: Ø 3.3mm or more

Observation & photographing of the fundus/anterior segment tomogram

Scan Range	(on fundus)	Horizontal direction 3 ~ 12 mm Vertical direction 3 ~ 9 mm
	(on cornea)	Horizontal direction 3 ~ 6 mm Vertical direction 3 ~ 6 mm
Scan Speed		50,000 A-Scans per second
Lateral Resolution		20 μm
In-depth Resolution		6 μm
Photographable diameter of Pupil		Ø 2.5 mm 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 100-240 V
Power Input	70-150 VA
Frequency	50 Hz - 60 Hz

Dimensions and Weight

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

* Display digital Red-free

** Anterior scanning is option. With anterior segment attachment.

Flexible Layout

3D OCT-1 Maestro is incorporated with a flexible touch panel monitor. This allows you to operate the machine while supporting the patient from their side or from the back. Furthermore, it's practical design and usage within the workspace allows healthcare professionals to take advantage of it's optimised footprint.

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

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boilerplate
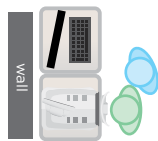
IMPORTANT Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

DEVICE TECHNOLOGIES

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