

# 3D OCT-1 Maestro

Optical Coherence Tomography

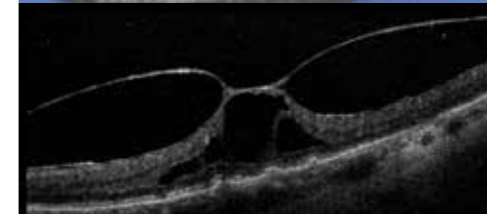
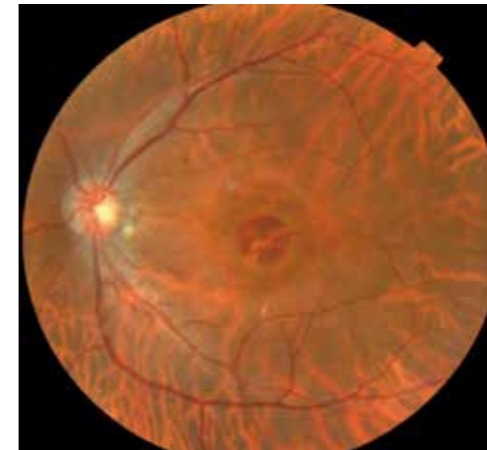


Discover the  
OCT world  
at your  
fingertips



Optical coherence tomography

## 3D OCT-1 **Maestro**



Based on a long history of product innovation, including the first to combine SD OCT with color fundus photography, Topcon has set the bar for providing patient friendly, easy to use and completely automated comprehensive OCT for today's eye care needs.

### Features

- | Fully automated operation
- | Rich analysis and report functions
- | Compact & space saving design
- | EN VIEW OCT Imaging
- | True color fundus photography
- | Superb OCT technology
- | Network and DICOM connectivity

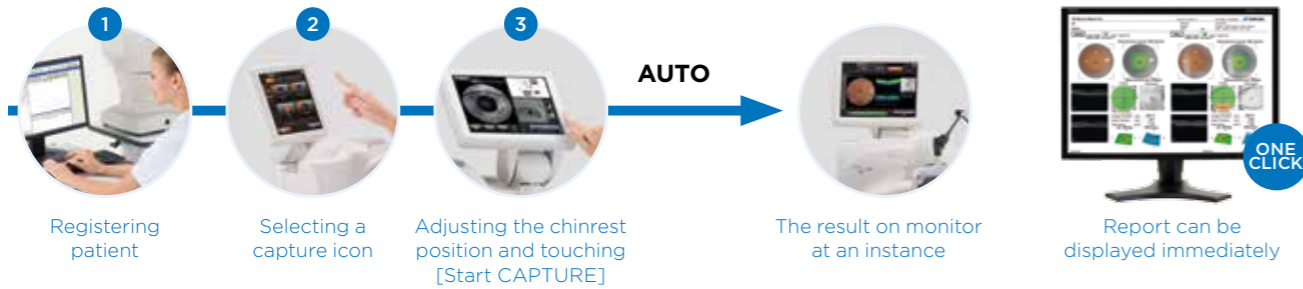
# Fully automated operation



The 3D OCT- Maestro is the most user-friendly OCT in the market due to its fully automated function. With one touch on the screen, the auto alignment, auto focus and auto shoot is activated.

## Full-Auto capturing

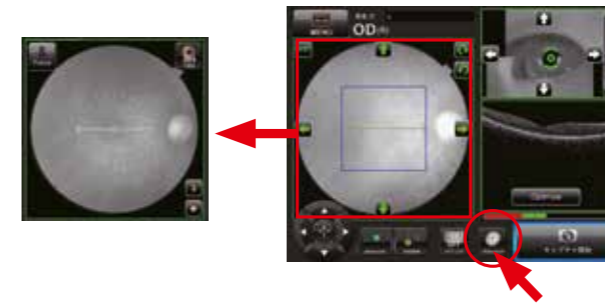
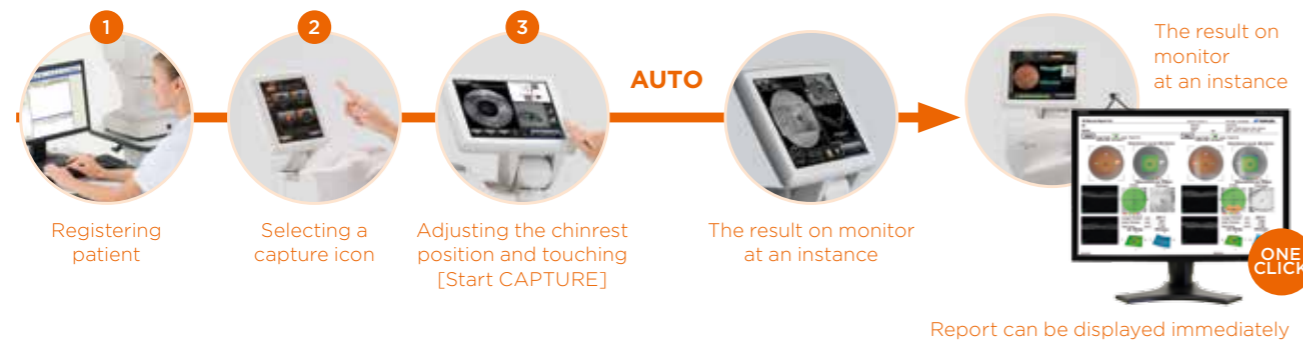
3D OCT-1 Maestro requires nothing more than to touch the capture icon and [Start Capture] button. Alignment, focus, optimizing and capturing are performed in automatic procedure. After capturing, the report can be immediately displayed by clicking on the icon.



Though the 3D OCT-1 Maestro is fully automated, it is possible to activate additional functions for special cases.

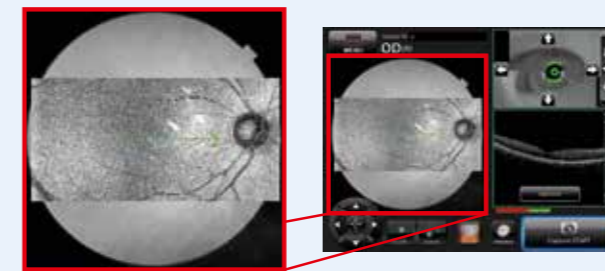
## Semi-auto capturing

With semi-auto capturing the 3D OCT-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.



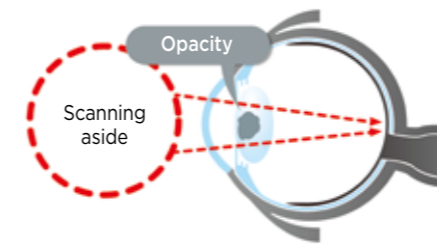
## Manual capturing

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.



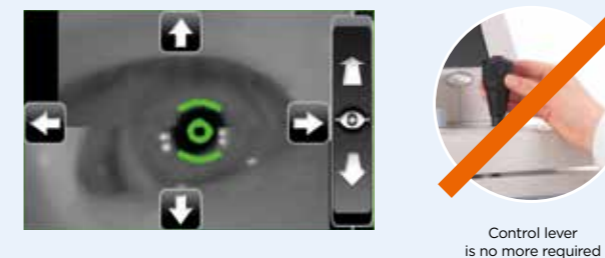
## Live Fundus View™

Live Fundus View (OCT-LFV) is a perfect tool for capturing small pupils with a diameter of  $\varnothing 2,5\text{mm}$ . OCT-LFV is a live projection image with reflection at the retina. It gives a clear live fundus image. Disc, retinal vessels and scanning position is very easy to see.



## Cataract mode

In case there is opacity in the eye due to cataract, the operator can switch on the cataract mode with one finger touch. The cataract mode will automatically move the scanning position on the upper/lower (or L/R) area. Thus you can avoid the cloudiness in the optic media.



## Stereo-matching automatic alignment

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

# Rich analysis and report functions

## Rich analysis and report functions

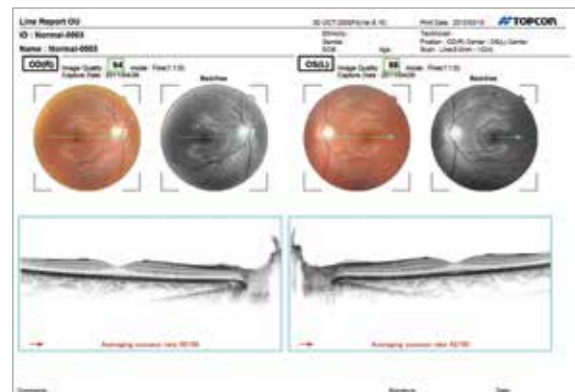
The 3D OCT-1 Maestro allows for rich analysis functions for Macula, Glaucoma or Anterior. Comprehensive, predefined report templates allow you to see and print diagnostic output in a clear way.

Reports contain for example optic disc analysis, 3D macula analysis, 12 mm 3D wide scan and others. The anterior analysis is an option on the 3D OCT-1 Maestro.



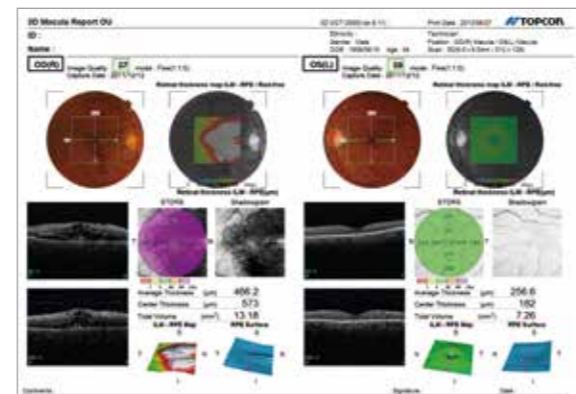
### 5 Line cross scan

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.



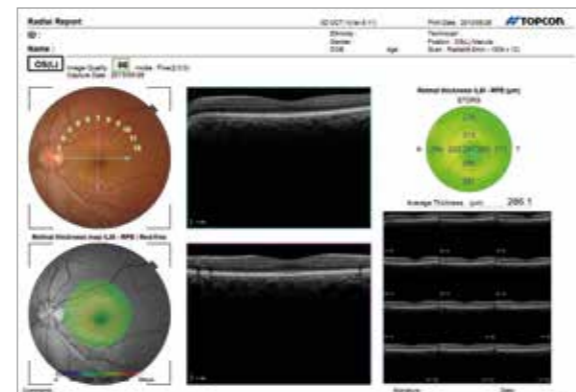
### Line scan

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



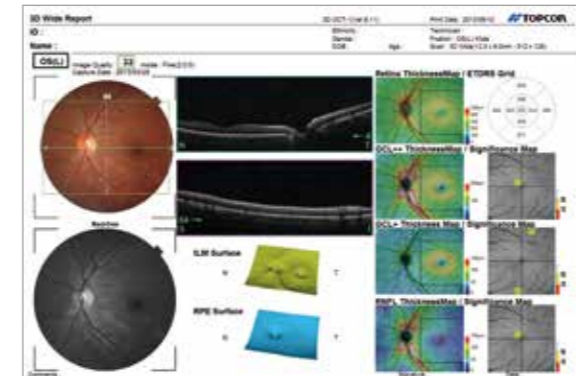
### 3D Macula analysis

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



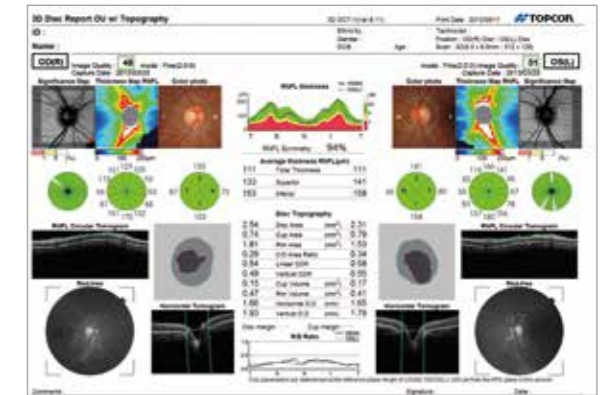
### Radial scan

The radial scan is a fast solution to create an overview, with high resolution scans.



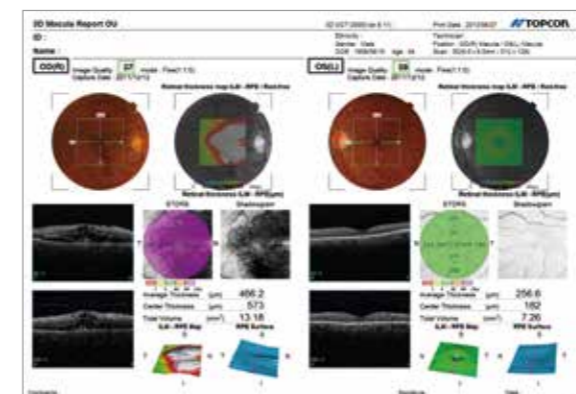
### 3D Wide scan (12x9mm)

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



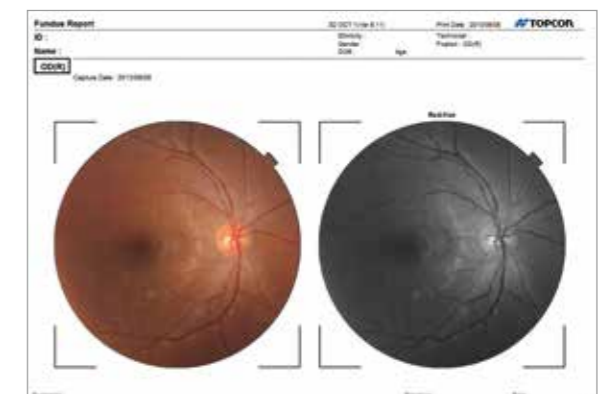
### 3D Disc analysis

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



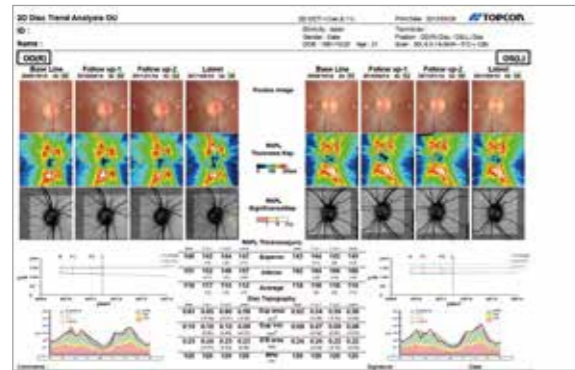
### 3D Macula (V) glaucoma analysis

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



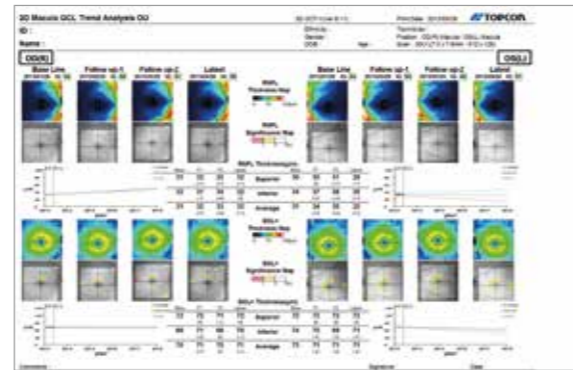
### Color fundus photography/ peripheral fundus photography

Non mydriatic color fundus photography is possible. The report template is ready for color fundus photography. Peripheral fundus photography is also available.



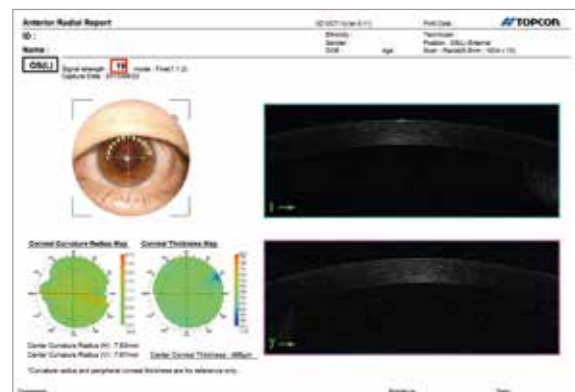
**Trend analysis (RNFL)**

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



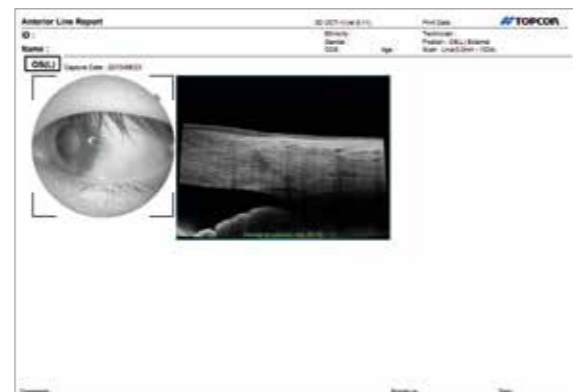
**Trend analysis**

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



**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.



**Anterior line scan\***

This allows to observe the Angle area.

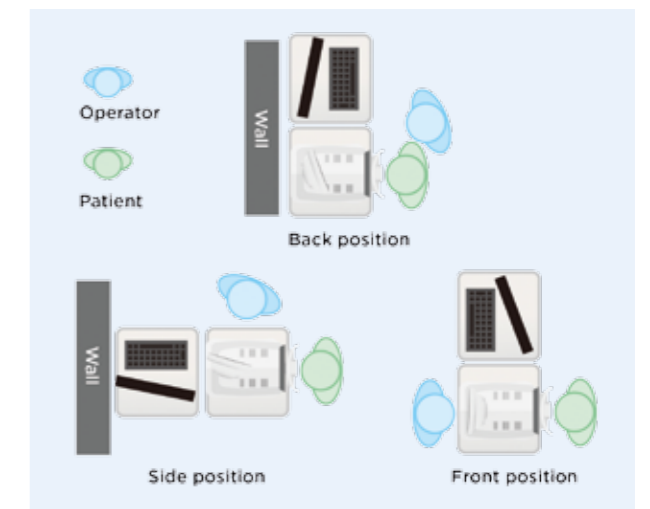
\*Anterior scanning is option. Anterior segment attachment is required



**Compact & space saving design**

Due to the rotatable touch screen control panel, the operator can use the 3D OCT-1 Maestro from several positions: the classic position, positioned behind the patient and from the side.

This results in a superb patient interaction and a space saving set up. The compact design and small footprint of the 3D OCT-1 Maestro allows it to be installed on a refraction unit or a table like Topcon's IC-1.



**Brightness shield BS-1**

The optional Topcon BS-1 Brightness Shield will help to reduce undesired light. The slim and sophisticated design will not interfere with patient interaction.

# True color fundus images & superb OCT technology

## EN VIEW OCT Imaging

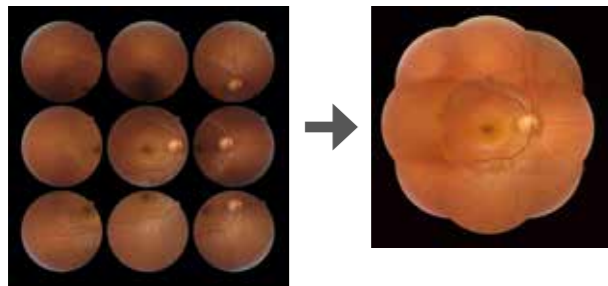
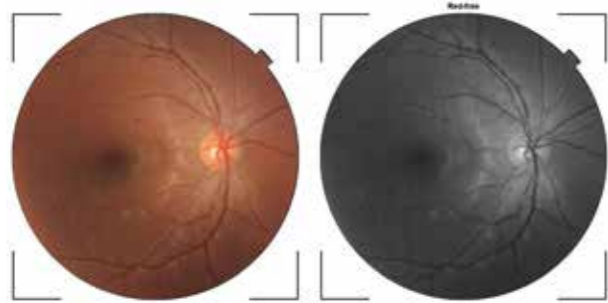
Topcon's EN VIEW software, based on EN FACE technology, allows for independent dissection of the vitreoretinal interface, retina, REP and choroid and will uniquely project these layers so that macula pathology throughout the posterior pole can be studied and correlated with a patient's symptoms, their disease and its progression.

## True color fundus photography

The 3D OCT-1 Maestro has an integrated full color fundus camera. With one finger touch you can acquire simultaneously a posterior OCT image and a true color fundus image. This real fundus photo helps you quickly to locate the exact position of the OCT-scan and gives you additional information for diagnosis.

## Peripheral fundus photography

The 9-point fixation target in the 3D OCT-1 Maestro allows the operator to make 9 different color fundus photos and compose them into one total overview of the fundus. With optional software, a panoramic or mosaic overview can be created.



## Superb OCT technology

50,000 A-scans per second - More details in less time

A scanning speed of 50,000 A-scans/sec allows for faster tomography acquisition and produces clear cross-sectional retinal images.

A clear, High-Definition, B-scan image is acquired with a high speed of 50,000 A-scan/sec by the simplest operation ever.

## Wide field OCT scan

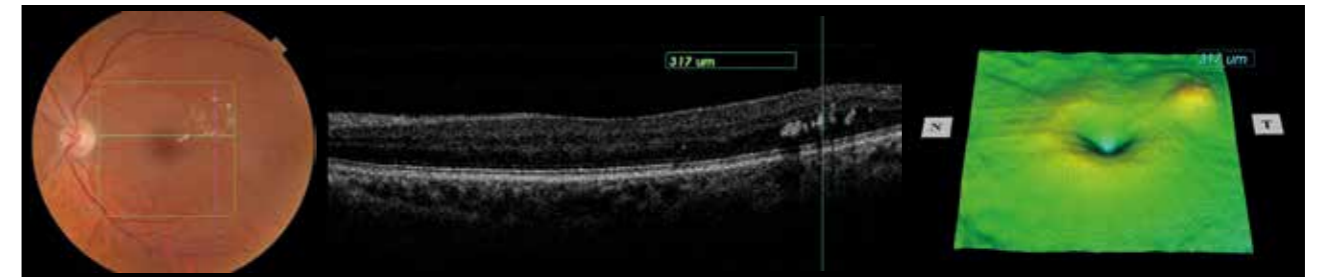
With the 3D OCT-1 Maestro you can produce the perfect overview capture in a single image. The 12x9mm wide field OCT scan for the optic nerve & macula is perfect for fast screening. (image of 12x9mm)

## High quality/high resolution OCT and color fundus photography

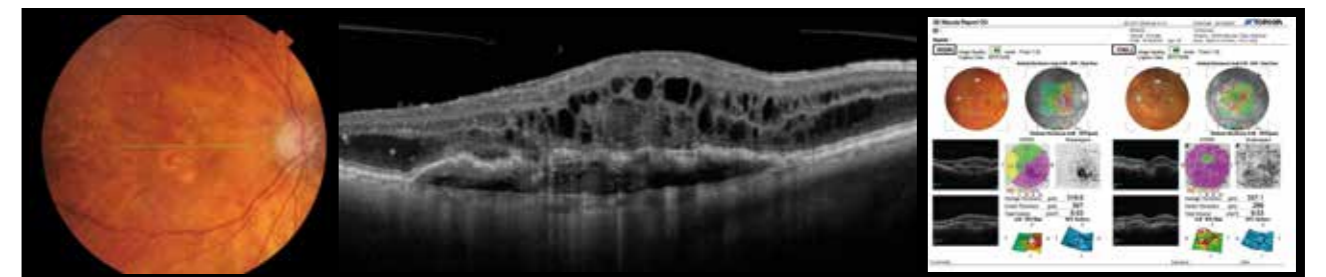
50,000 A-scans/sec. speed produces fine B-scan and smooth 3D graphics, which facilitates the observation of pathology form and condition on each layer. High quality color fundus photography gives fundamental and additional information. The OCT and colour fundus can be said to be the inseparable combination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



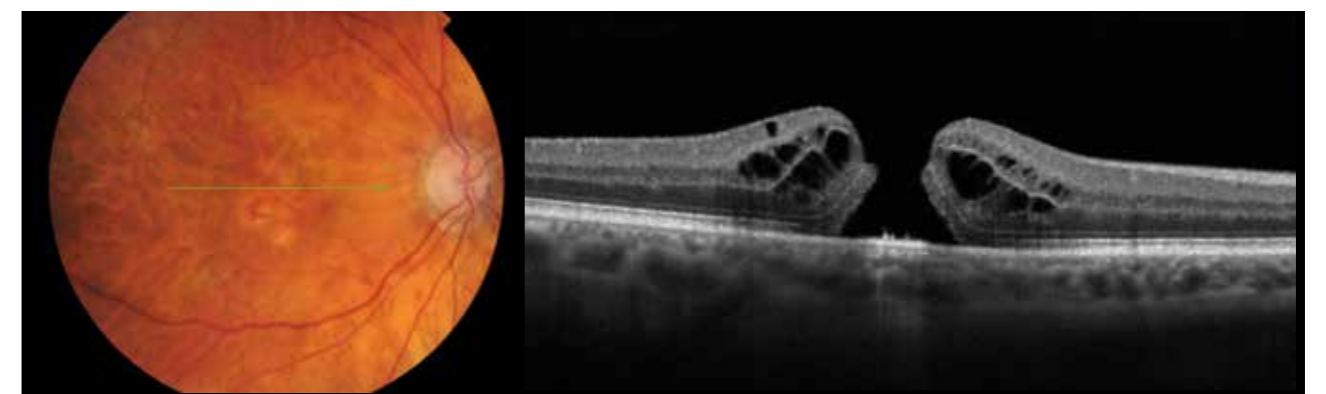
85-years old, male, OD, branch retinal vein obstruction



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)

## Specifications

<b>Observation &amp; photography of fundus image***</b>	
<b>Scan mode</b>	Color, red-free*
<b>Picture angle</b>	45°/30° or equivalent (digital zoom)
<b>Operating distance</b>	34.8mm (in fundus photography) 62.6mm (in anterior segment photography**)
<b>Photographable Diameter of pupil</b>	45°: Ø 4.0mm or more Small pupil diameter: Ø 3.3mm or more
<b>Observation &amp; photographing of the fundus/ anterior segment tomogram</b>	
<b>Scan range</b>	(on fundus) Horizontal direction 3 - 12mm, Vertical direction 3 - 9mm (on cornea) Horizontal direction 3 - 6mm, Vertical direction 3 - 6mm
<b>Scan speed</b>	50,000 A-Scans per second
<b>Lateral resolution</b>	20µm
<b>In-depth resolution</b>	6µm (digital resolution 2.6µm)
<b>Photographable diameter of pupil</b>	Ø 2.5mm or more
<b>Internal fixation target</b>	Dot matrix type organic EL (The display position can be changed and adjusted. The presenting method can be changed.)
<b>Electric rating</b>	
<b>Source voltage</b>	AC 100-240V
<b>Power input</b>	70-150VA
<b>Frequency</b>	50Hz-60Hz
<b>Dimensions and weight</b>	
<b>Dimensions</b>	307-442mm (W) X 472-668mm (D) X 518-722mm (H)
<b>Weight</b>	21kg

\*Display digital red-free \*\*Anterior scanning is option, with anterior segment attachment \*\*\* Color fundus image is an option for Maestro Solo

**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. Medical device Class IIa. Manufacturer: Topcon Corporation.



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