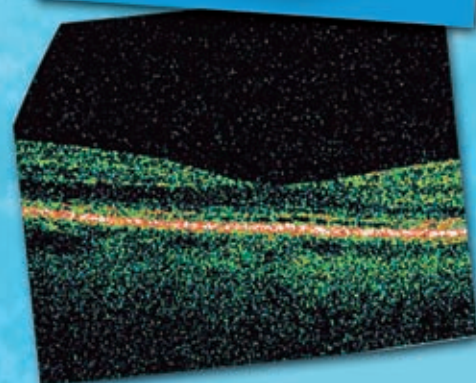
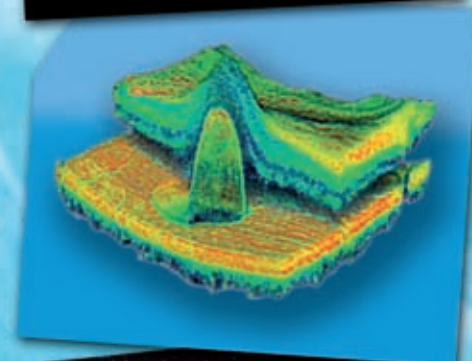
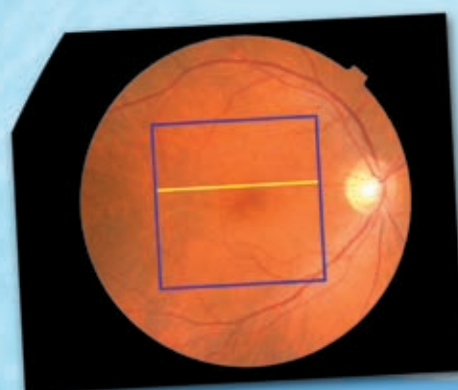


Optical Coherence Tomography

3D OCT-1000

NEW



CONNECTING VISIONS

Optical Coherence Tomography

Topcon 3D OCT-1000:

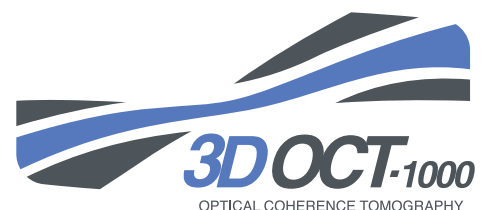
Combines innovative OCT technology with a non-mydrriatic retinal camera

Unprecedented rapid tomographic scanning technology with accurate retinal registration. Topcon has taken a giant leap forward in improving OCT imaging performance utilizing a high-speed imaging technology called Fourier Domain OCT.

Unlike the conventional OCT, Fourier Domain OCT enables a dramatic increase in both the scanning speed and imaging sensitivity. Integrated with the established Topcon non-mydrriatic retinal camera, Topcon's new 3D-OCT1000 will provide clinicians with new and exciting tools for detecting and monitoring retinal diseases.



- OCT+Retinal Camera
- High Speed Scanning
- 3D Virtual Microscopic View
- Accurate Retinal Registration
- Reproducibility
- Seamless Interface with IMAGEnet™

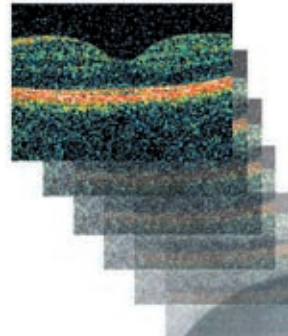


Features

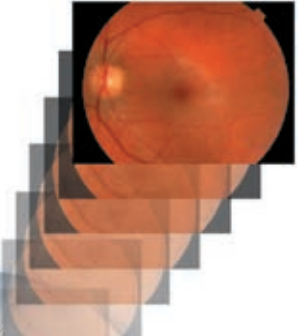
Combines innovative OCT technology with a non-mydratric retinal camera

Topcon combines the newest spectral domain OCT technology with a non-mydratric retinal camera to offer the world's most versatile retinal evaluation tool. 3D OCT-1000 provides infrared alignment viewing with split mechanism and internal matrix LCD for stable fixation. These features make the instrument exceptionally easy to use.

OCT B-scan

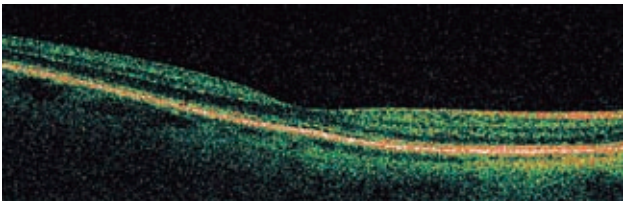
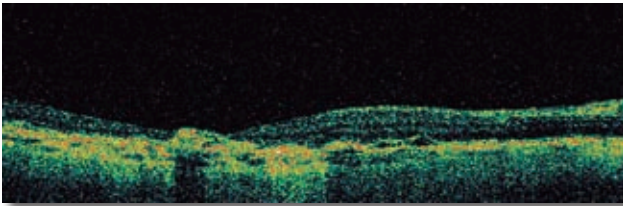


Non-Mydratric Retinal Camera



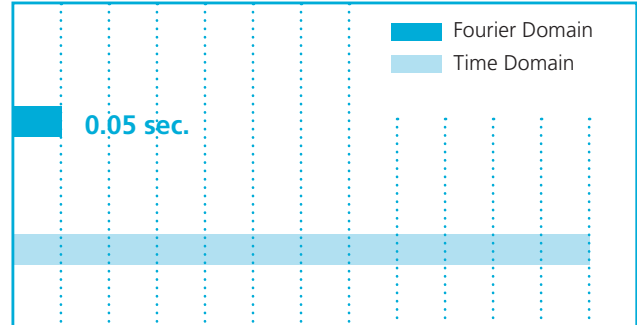
0.05 sec. High Speed B-Scan.

With this technological breakthrough, Topcon's 3D OCT provides three-dimensional OCT images up to 50 times faster than existing time domain technology to reduce patient eye movement and to increase patient comfort. More importantly, high-speed data acquisition makes accurate retinal registration a reality!



Images courtesy of Vitreous-Retina-Macula Consultants of New York, NY

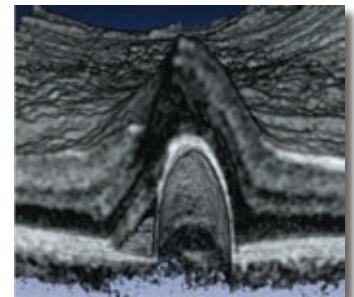
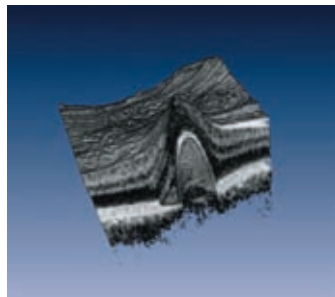
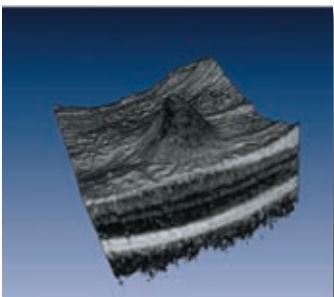
B-scan Measuring Speed



3D Virtual Microscopic View

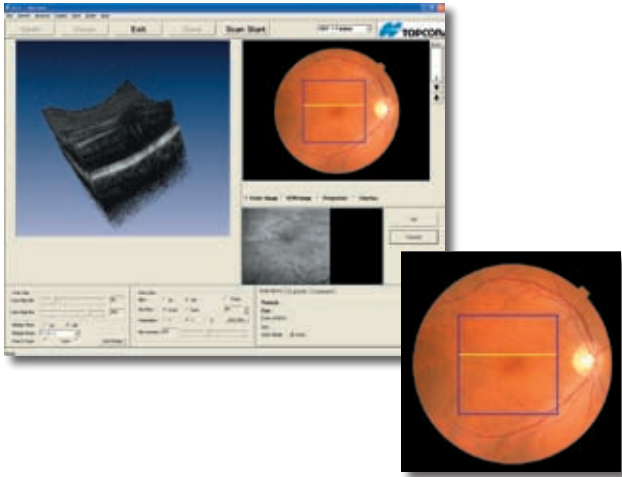
Topcon's 3D OCT provides a three-dimensional "virtual microscopic view" of the specific-targeted area, featuring

accurate retinal registration for the most reliable and reproducible measuring results.



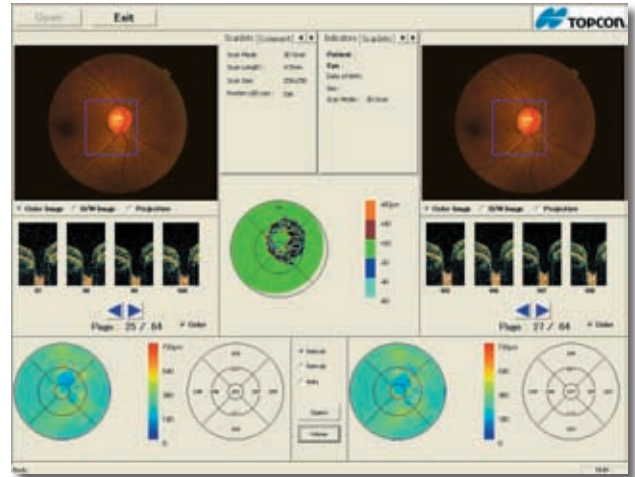
Accurate Retinal Registration

The Topcon 3D OCT-1000 scans a large area with densely-sampled data to ensure that the area of concern is captured. The software allows for a direct comparison between the raster scans on the retinal image to the corresponding OCT tomographic layers. The accurate retinal registration permits subsequent scans of the same area to be repeated for better patient management.



Reproducibility

As OCT technology becomes an essential ophthalmic imaging tool, the demand for scanning the same retinal area to track anatomical changes will be even greater! With the advent of accurate retinal registration, now you can scan, evaluate, and compare with confidence.



Seamless Interface with IMAGENet™

Optional viewer software enables you to view and interpret 3D OCT data with a networked PC in a satellite room, independent of the capture station. In addition, the 3D OCT-1000 software is fully compatible with IMAGENet and can be used in conjunction with your existing IMAGENet

database. This provides seamless integration with your other imaging procedures (Red Free, Fluorescein, Indocyanine Green, and Auto Fluorescence, etc.) for patient management and clinical presentations.

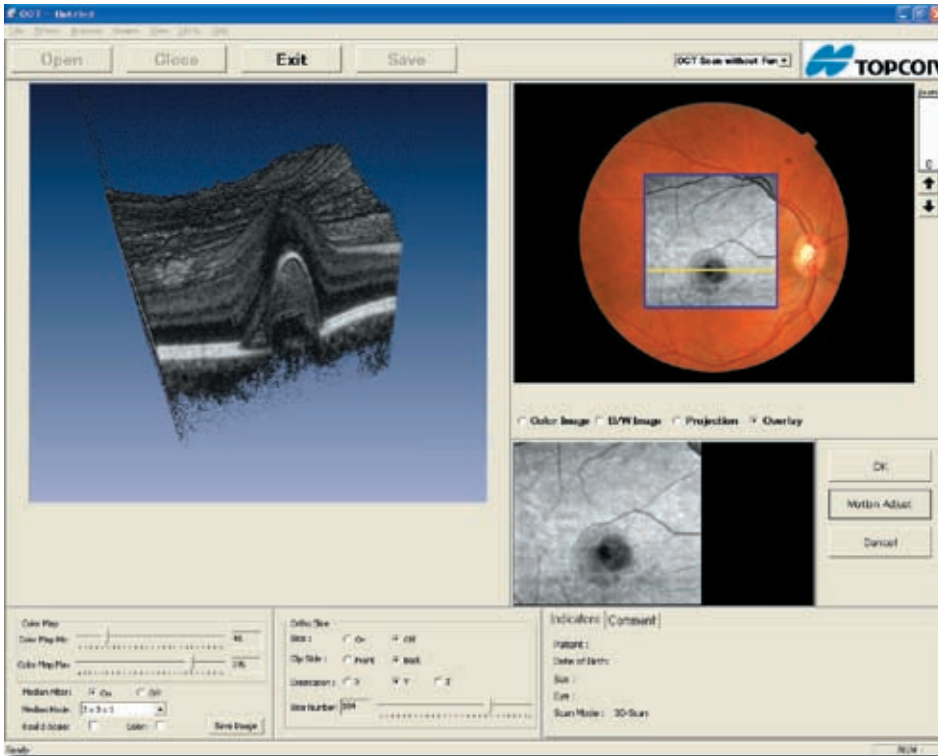


3D OCT-1000

IMAGENet i-base

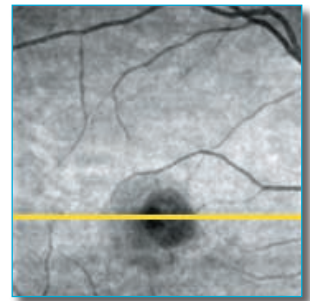
Case Study

Case 1



PED

(Pigment Epithelial Detachment) 38 years old man with idiopathic choroidal neovascularization in his left eye. A retinal pigment epithelial detachment can be seen with surrounding subretinal fluid. The extent of the subretinal fluid can be demonstrated on the fundus image using the device software.

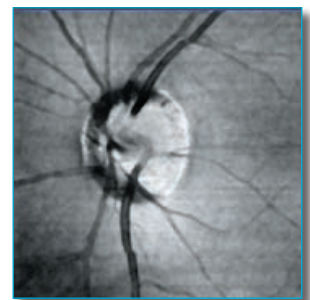
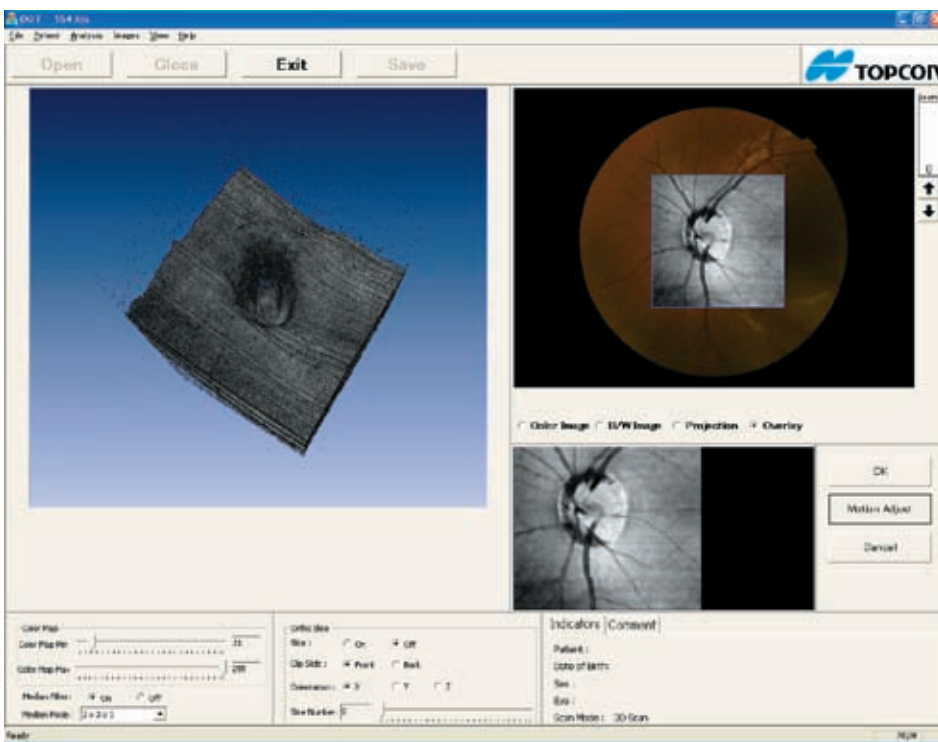


Images courtesy of :
Doheny Eye Institute, CA

Case 2

Glaucoma Suspect

32 years old woman with strong family history of glaucoma. The optic disc cup can be readily seen and compared to subsequent visits. Nerve fibre layer analysis is also an additional useful way of following this patient.



Images courtesy of :
Doheny Eye Institute, CA

Specifications

Field Angle	45° Digital Zoom (2x, 4x)
Working Distance	40.7mm
Pupil Diameter	Ø4.0mm (45°) Ø3.7mm (Digital Zoom)
Scanning Range (Retina)	6x6mm, 4.5x4.5mm, 3x3mm
Frame Rate	B-scan mode: 5Hz or more (Variable) 3D-scan mode: 0.2Hz or more (Variable)
Horizontal Resolution	≤20µm
Longitudinal (Depth) Resolution	5µm
Internal Fixation	Matrix LCD
Diopter Scale Range	w/o compensation lens: -13D~+12D w/ compensation lens (-): -12D~-33D w/ compensation lens (+): +9D~+40D
Light Source	Superluminescent Diodes (SLD) Wavelength 840nm Half Bandwidth: 50nm Output on the cornea: ≤0.65mW
Power Source	Voltage: 100/110/120/220/230/240V Frequency: 50-60Hz
Power Supply	160VA (max 400VA)
Dimensions	Main Body: W272mm x D505mm x H565-595mm Spectrometer Unit: W320mm x D480mm x H170mm
Weight	Main Body: 26kg Spectrometer Unit: 9kg

Optional Accessory



Topcon IS-425 table

* 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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