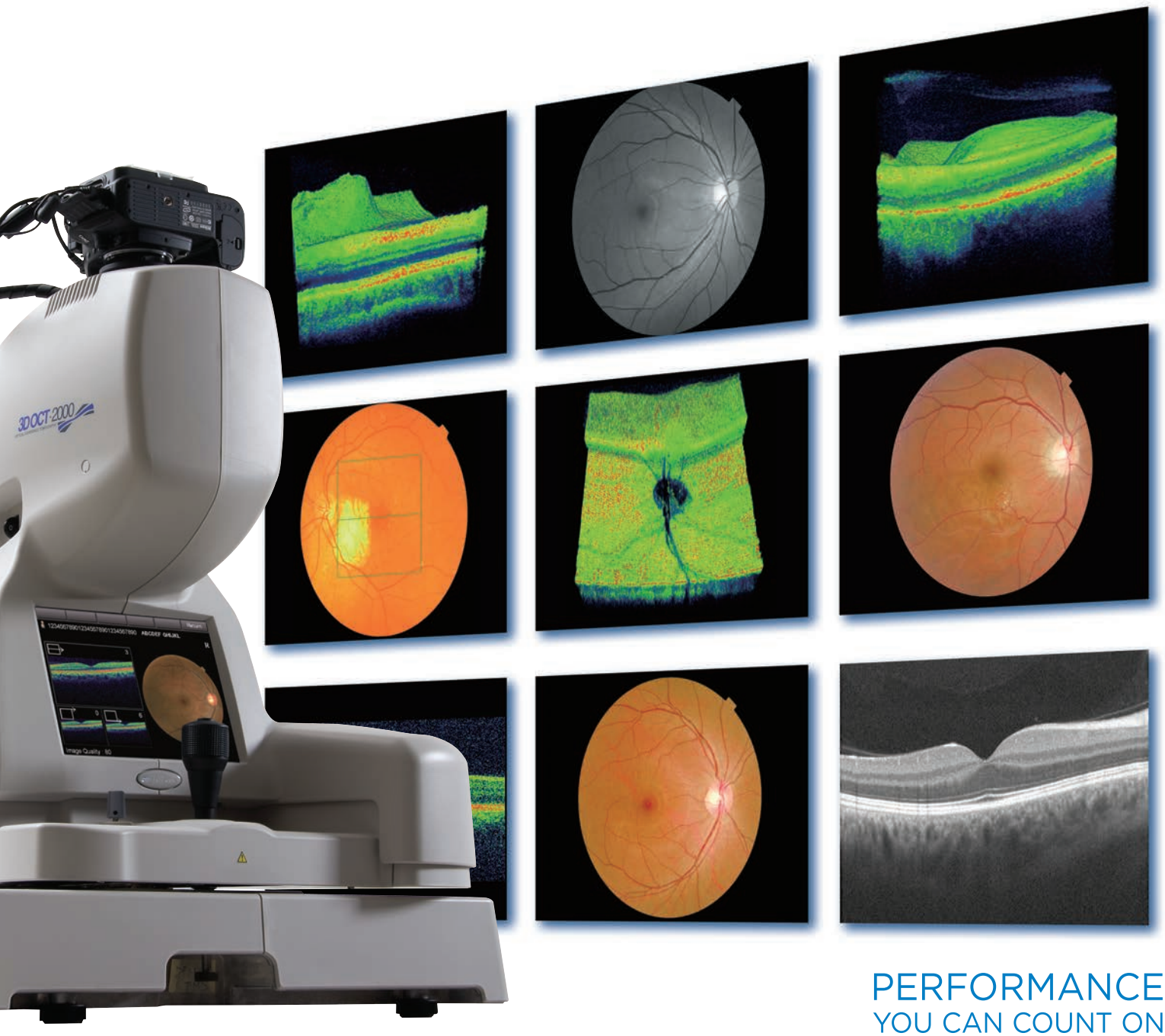
A TOPCON ADVANCED DIAGNOSIS SOLUTION

Optical Coherence Tomography

3D OCT-2000



PERFORMANCE
YOU CAN COUNT ON

TOPCON

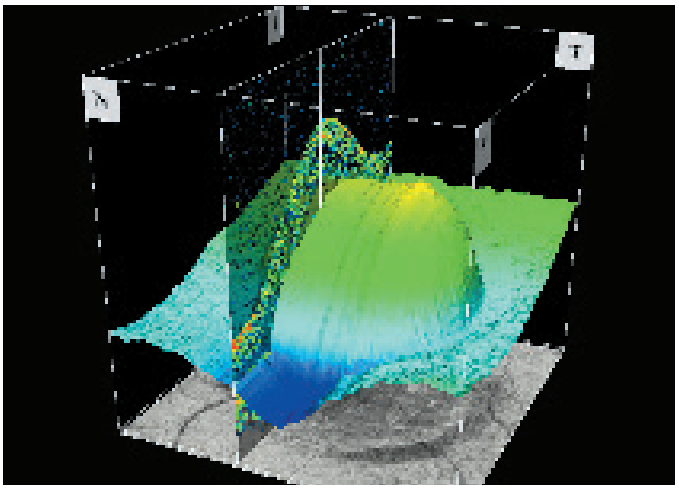
3D OCT-2000

The **Topcon 3D OCT-2000 System** is the first Spectral Domain OCT system to incorporate a high resolution fundus camera and a user-friendly color touch screen display in a compact, space saving design.

What makes the Topcon 3D OCT-2000 unique:

- Integrated, high resolution (12.3MP) fundus camera
- FastMap™ software enables dynamic viewing of 2D, 3D and fundus images simultaneously
- Embedded touch-screen for quick and easy navigation
- Historic patient data from Stratus® OCT can be easily imported, analyzed and viewed
- Seamless integration with EyeRoute® Image Management System

High Quality Imaging



3D OCT Image

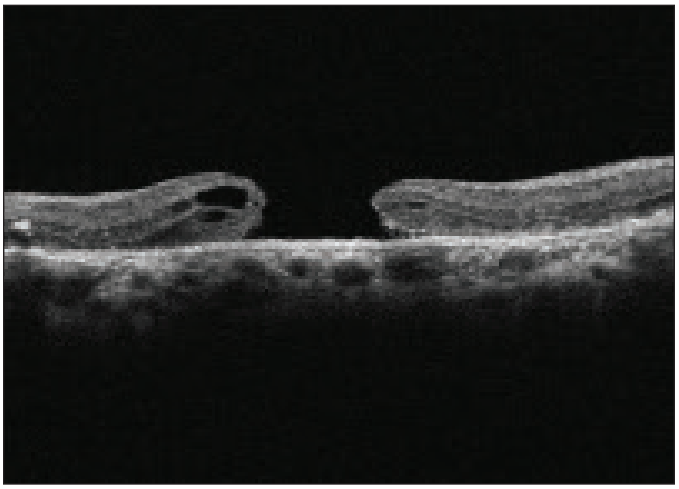
Topcon's proprietary FastMap software pioneered the 3D visualization of OCT data, providing another dimension of clinical information, thereby enhancing the understanding and illustration of complex pathologies such as vitreous traction, macular edema and retina schesis.

- 3D visualization of OCT data
- Illustrates complex pathologies
- Quickly export images and 3D movies for presentations

Fundus Image

High resolution, non-mydriatic, color fundus images allow for visualization of conditions which otherwise would go undetected with OCT technology, such as disc hemorrhages. The 45 degree field of view and the availability of stereo photos provides the ultimate diagnostic insight.

- High resolution 12.3 MP color fundus camera
- Easily capture and view stereo photos
- PinPoint Registration™ of OCT data in the fundus image



B-scan Image

FastMap software encompasses the latest in noise reduction algorithms and overlapping scanning technology to create exquisite B-Scan images, which are available almost instantaneously. This greatly reduces chair time for the patient and enhances office workflow.

- Uses latest in noise reduction algorithoms
- Enhances office workflow
- Customize capture protocols

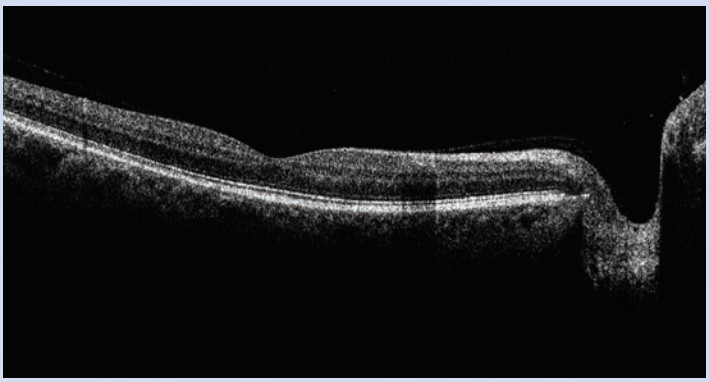
Deeper Diagnostic Insights

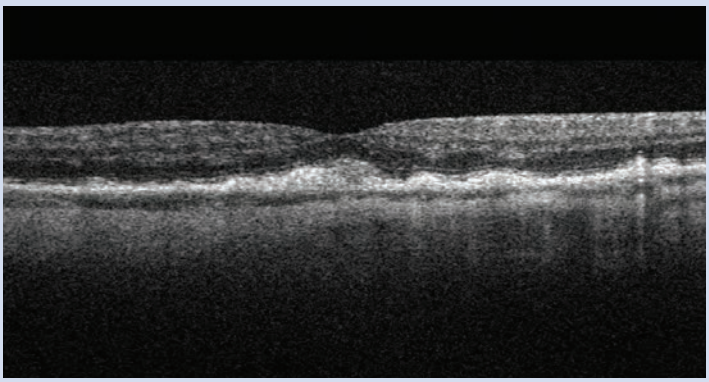
Comprehensive Capturing
Capture images of the fovea and optic nerve head in one single scan and high resolution images of the choroid with automatic choroid reference mode.

Video Functions
Use single touch control to review and playback images and create 2D and 3D videos.

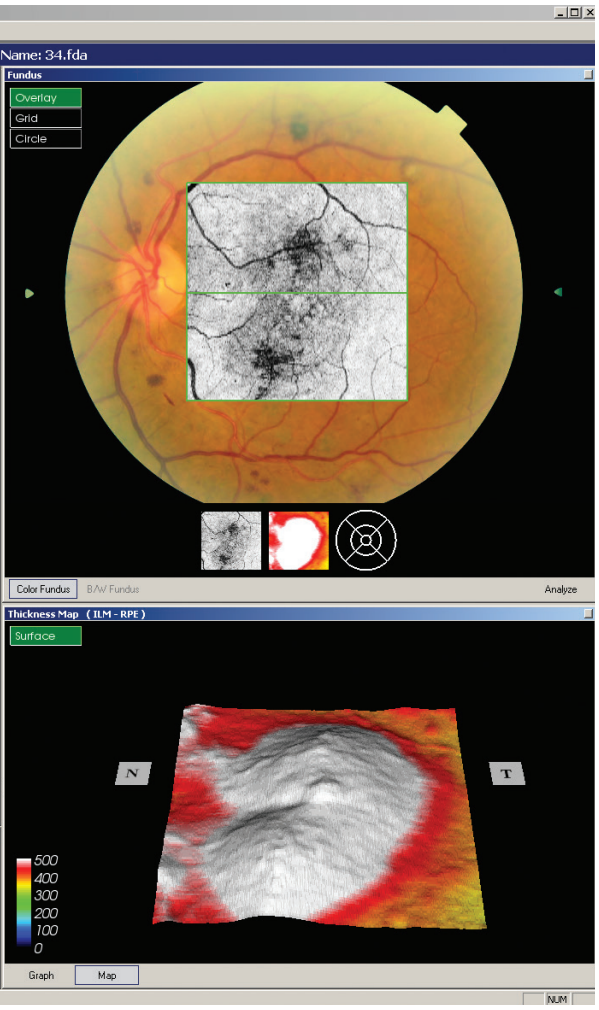
Extended Scanning Depth
Capture high-quality images of high-myopic and hyperopic patients with a diopter compensation lens and an extended scanning depth of 2.3 mm.

Compare Function
Allows you to visualize serial exams or view both eyes side by side.





Deeper Diagnostic Insights



FastMap Software

Topcon's proprietary FastMap software ensures consistent, high quality images. Using enhanced 3D registration technology, FastMap reduces artifacts which may be caused by eye movement. This in turn allows for speedy PinPoint Registration of the OCT data within the fundus image without sacrificing workflow and preserves image quality of the vitreo-retinal interface.

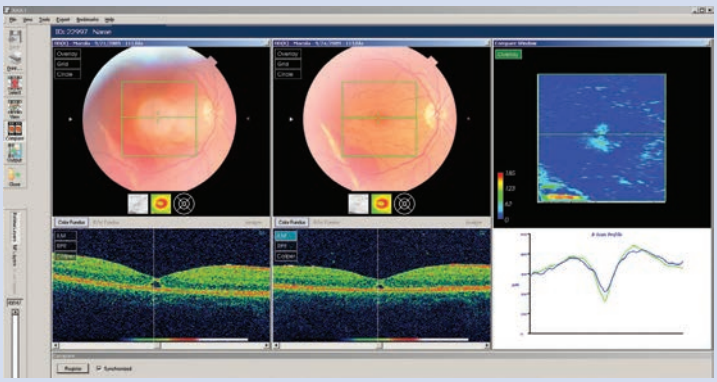
In addition, FastMap provides dynamic, simultaneous viewing of the fundus image, and 2D and 3D OCT data, and automatically detects ILM, RFNL, IS/OS junction, RPE and Bruch's membrane, which can also be modified.

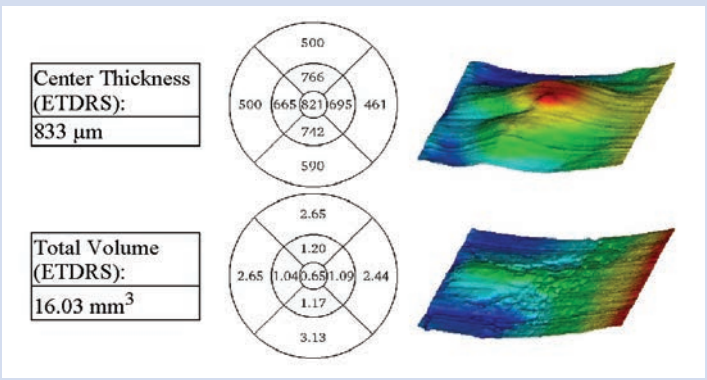
Thickness Measurement Functions

FastMap software incorporates the latest layer detection algorithms, allowing you to automatically measure total retinal thickness, RNFL or compare against your legacy Stratus measurements. Manual adjustment of all measurement grids combined with auto and manual registration of serial exams gives you the highest level of confidence in retinal and RFNL thickness measurements.

Mosaic Function

Create panoramic views from the macula to the optic disc.



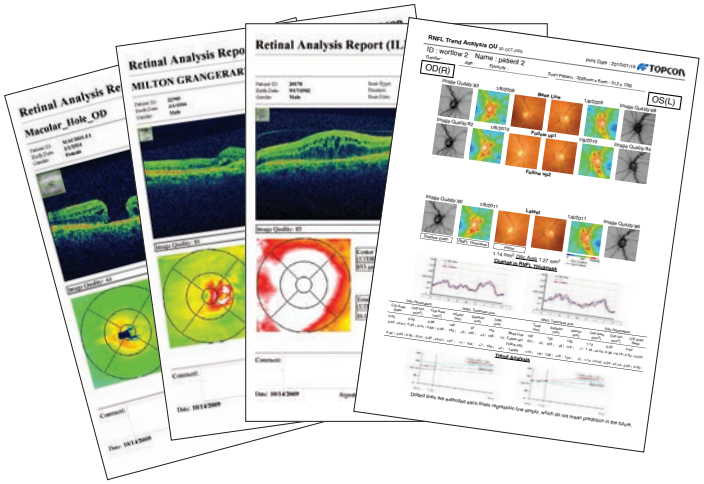


User-Friendly Design

Easy Image Capturing

- » Auto focus
- » Auto z-off-set
- » Auto polarization
- » Auto fundus capture
- » Auto small pupil

Ease of use was the primary objective in the design of the 3D OCT-2000. Combining a fully intuitive, automated image acquisition process (focus, z-offset, polarization, fundus capture, small pupil) with Topcon's user friendly, ergonomic camera design, makes the capture of high quality images quick and easy for almost anyone.



Comprehensive Reports

The auto report generation tool in the 3D OCT-2000 saves valuable technician time. The added flexibility to electronically edit and annotate reports allows for paperless reporting and enables integration with image management and EMR systems.

Integration and Connectivity

EyeRoute On Board (optional)
Images captured with the 3D OCT-2000 can be accessed virtually anytime, anywhere – on a remote computer, a workstation of even the iPhone® with optional EyeRoute On Board software. EyeRoute enables images to be viewed, compared, organized and shared with other Topcon and non-Topcon instruments. It also allows for the import of FA, Red Free, FAF and ICG images from separate mydriatic camera systems, which can be registered to the OCT image with FastMap software.

Legacy Data Compatibility
The 3D OCT-2000 ensures full backwards data compatibility. In addition to 3D OCT-1000 images, users can read, view and analyze data previously captured on a Stratus System.

Review Software
Users can also utilize the review software, which is provided with the 3D OCT-2000 upon request.

Specifications

Specifications

Field Angle	45°
Working Distance	40.7mm
Pupil Diameter	≥ 3.3 mm for Fundus image
Scanning Range	8.2 x 3.0 mm, 6.0 x 6.0 mm, 4.5 x 4.5 mm or 3.0 x 3.0 mm
A Scan speed	27,000 A Scans/sec.
Scan Depth	2.3mm
Horizontal Resolution	20µm
Longitudinal Resolution	5-6µm
Fundus Observation	Near IR
Fundus Camera	Nikon D90 12.3 MP Color
Fixation	Adjustable internal matrix LCD and external fixation device
Diopter Scale Range	-13D to +12D (in fundus photography)
Light Source	Super luminescence diode (SLD)
	Wavelength 840nm
	Half Bandwidth: 50nm
	Output on cornea ≤ 0.65 mW
Automatic OCT Reference Focus	Vitreous and Choroid
Scan Patterns	3D, Cross*, Raster*, Line*, Radial*, Circle* (*available with oversampling, overlapping)
Power Supply	Source voltage : AC 100/110/120/220/230/240V 50-60Hz
	Power input : 200VA (normal), 400VA (max)
Dimensions	21.5" (W) x 21" (D) x 23.5" - 25" (H)
Weight	70 lbs
Retinal Layers Identified	Macula: ILM, IS/OS, RPE, Bruch's Membrane
	Glaucoma: RNFL

Capture PC and Review Station Specifications

Platform	IBM PC/AT compatible	
CPU	Pentium 4 or higher	
Memory	4GB or higher	*2GB or higher for review station
OS	Microsoft Windows® XP Professional	
Hard Disc	500 GB* or higher	*80 GB required for Review Station Software
Display	SXGA 1280 x 1024 32-bit color	
Graphics Board	VRAM 256MB or higher	*512MB preferred

Acessories

Stratus Database Conversion	
Review Station Software Licenses	
SQL	
AIT-650*	*Wheel Chair Accessible
AIT-250*	*Wheel Chair Accessible
AIT-16	

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