

OTI-Scan 2000 Specifications

B-MODE – PROBE

Type: Motorized Probe
Frequency: 10 MHz supplied (optional 20 MHz)
Scanning Method: Electromagnetic sector scanner
Sector angle: Variable – 35° or 50°

DISPLAY

Depth range: 43 or 50 mm from the probe tip
Resolution: Axial direction 0.15 mm
 Lateral direction max. 0.2 mm

User selectable modes: Retina / Orbit
 2 x Live Zoom
Gain curves: Logarithmic with user-selectable window (contrast) and level (brightness) control

MEASUREMENTS

Distance: Virtual calipers on B-Scan display, Virtual gates on profile A-Scan display
 Dual Screen Live Zoom with Calipers Measurement

AMPLIFIER

Gain: Adjustable 30 - 114 dB
Dynamic Range: Adjustable 0 - 85 dB
Auto TGC Zone Depth: ± 100%, variable

DYNAMIC RECORDING

Recording time: 40 seconds minimum, depends on available PC memory
Recording and Playback: Loop, Play, Half-Speed

FILE EXPORT FEATURES

Export Report as: PDF, RTF, E-mail
Export Snapshot as: TIF, PNG, JPG
Export Movie as: MOV, AVI, Folder of Images
DICOM Export Support: Optional

Please note: specifications subject to change without notice.

A-MODE – PROBE

Type: Solid probe
Frequency: 13 MHz
Internal fixation light: Red LED
Measurable value: Axial length, Anterior chamber depth, Lens thickness, Vitreous length

DISPLAY

Axial Length range: 14 - 40 mm
Display unit resolution: 0.01 mm

AMPLIFIER

Gain: Adjustable 0 - 110 dB
Dynamic Range: Adjustable 0 - 95 dB

MEASUREMENTS

Clinical accuracy: ± 0.1 mm
Converted ultrasonic velocity: user-selectable anterior chamber, lens, vitreous cavity
IOL Formulas: Holladay I, Hoffer-Q, SRK-II, SRK/T
 Others available on request

GENERAL

Electrical Power required for Console: DC 12V, 300mA
PC/Console connection: USB

EXTERNAL MEDICAL GRADE POWER SUPPLY

Voltage: AC 90 - 240 V
Frequency: 50/60 Hz

DIMENSIONS

Console: 90mm (w) x 160mm (d) x 180mm (h)
Computer: depends on PC model chosen

WEIGHT

Console: 600 grams (1.5 lb.)
Computer: depends on PC model chosen

MONITOR

Size: 17" High Resolution LCD Monitor

DISTRIBUTOR

OTI OPHTHALMIC TECHNOLOGIES INC.

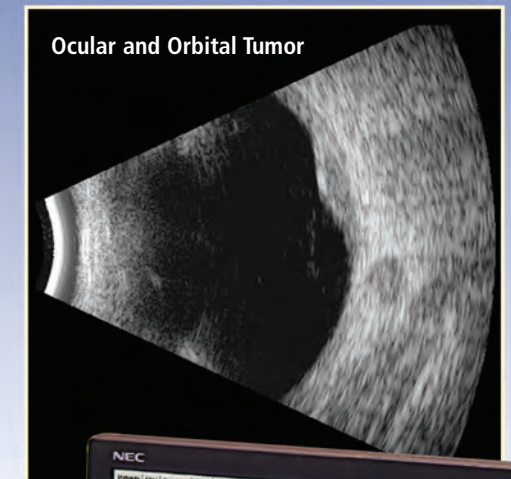
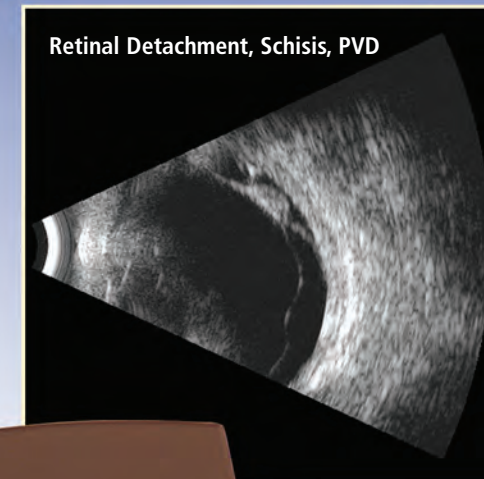
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OTI 2000 Rev. 09/05 - 3M

OTI Scan 2000

B & A-SCAN OPHTHALMIC ULTRASOUND
Designed for the Way You Practice

- Based on Windows XP Desktop Computer
- Smaller, Lighter 10 MHz Posterior Segment B-Scan Probe
- 13 MHz A-Scan Probe
- Real Time Dynamic Digital Recording
- Optional High Resolution 20 MHz B-Probe for Posterior Segment Imaging
- Optional Upgrade to HF35-50 High Frequency Ultrasound with 35 MHz or 50 MHz Anterior Segment Probes



OPHTHALMIC TECHNOLOGIES INC.
Bringing imaging to a new level

OTI-Scan 2000 Features

- Real-time movie capture with playback and editing prior to storage
- Choice of 10 MHz and 20 MHz B-Scan probes
- Choice of 13 MHz focused Biometry A-Scan probe and 8 MHz non-focused Diagnostic A-probe
- Integrated profile A-Scan mode with S-curve scaling supports Standardized Echography methods
- The only ultrasound system with automatic self-calibration for B- and A-Scanning
- The widest range of Gain and TGC available; Gain and TGC may be adjusted during or after image capture (post processing)
- New, optional exam-based software optimizes work-flow, automatically generates pathology-specific reports in customizable formats
- Reports can be sent by network or e-mail
- Easy to learn and use with full tutorial
- Can be upgraded to High Frequency (UBM) with 35 and 50 MHz probes

A-Scan Features

- Immersion or Contact setting
- A-scan mode with S-curve scaling supports Standardized Echography methods
- Sophisticated IOL planning software includes most popular IOL power formulas
- Built-in algorithms for difficult cases:
 - High myopia
 - Dense Cataracts
 - Pseudophakia with PMMA, Acrylic or Silicone IOL
 - Silicone Oil-filled Vitreous
- Software automatically detects and selects the best scans
- Print out unlimited formulas and IOLs
- Post-processing of A-Scan exam by changing Gain
- Compatible with Inkjet and Laser printers

OTI SCAN-2000

B and A-SCAN OPHTHALMIC ULTRASOUND

Designed for the Way You Practice

OTI-Scan 2000 Office Model

Versatile and economical yet full-featured. Designed with "Fast Scan & Print" feature, ideal for directly supervised exams and fast patient throughput.

OTI-Scan 2000 Clinic Model

All the features of the Office Model plus an added database, ideal for indirectly supervised exams, later physician review and patient tracking, or multi-user environments.

The new OTI-Scan 2000 is the most advanced ophthalmic B & A-Scan ultrasound system available today. This compact combination B & A-Scan system operates with a single desktop PC computer, using Windows XP.

Every aspect of the OTI-Scan 2000 is newly designed, and the B-probe operates in two scanning angles. Firstly, the "Wide Scanning Field" of 50° allows wide views of ocular structures in relationship to the anatomy of the posterior segment and the orbit. Secondly, the "Narrow Scanning Field" of 35° is used to image very small structures in the Posterior Segment. This narrow scanning angle maintains the same number of scanning lines which are packed at a narrower scanning angle and therefore provides higher lateral resolution of each image.

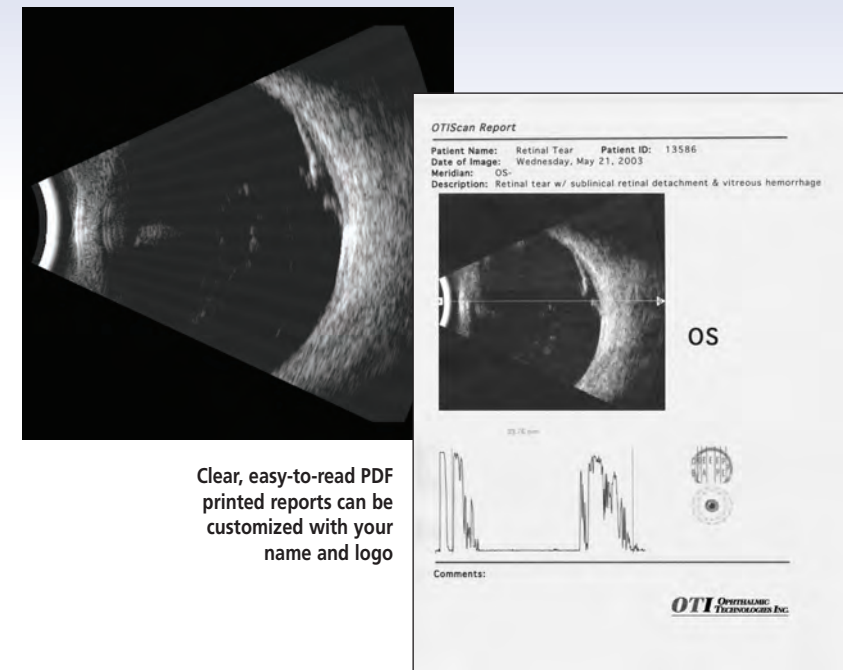
The Dynamic Digital Recording with Dual Screen display allows the user to view both normal and zoomed images – in a movie format – simultaneously, and allows excellent visualization of tissue, mobility and vascularity of low-density structures in the vitreous.

"The OTI-Scan 2000 records B- & A-Scan movies in real-time, allowing the user full playback and movie-editing capabilities. The movies can be stored in the patient database and exported to remote locations in different formats."

Easier Diagnosis – Improved Practice Management

OTI systems are designed to improve and simplify office work flow, allowing for quicker and more accurate diagnosis.

- **Quicker, less intrusive examination** – 40 seconds of real time B & A-Scan exams can be captured as a digital movie; images can be reviewed frame by frame or played back as a movie. Examiner is free to focus on the exam instead of concentrating on capturing individual images – making the examination quicker, less stressful and more efficient for both the examiner and the patient.
- **Improved ability to study structural relationships** – dynamic recordings can be viewed in regular Playback mode, Half Speed or frame by frame making it easier to clearly discern pathologies or study structural relationships.
- **Database facilitates later review** – digital movies can be stored in the database. A supervising physician will have an increased level of comfort when relying on technician generated examinations. The database also facilitates multi-user review.
- **Easy to use** – the graphical interface has been designed to be displayed on one screen, with no scrolling back and forth between multi-screens, making learning and everyday use easier.
- **Improved patient satisfaction** – patients may gain a clearer understanding of their diagnosis by viewing their movie on the screen after the exam has been completed.
- **Daily Patient Log** – assists in tracking exams for billing.
- **Windows XP based** – easier to upgrade software and hardware, easier to service, prints to any printer.



Clear, easy-to-read PDF printed reports can be customized with your name and logo

Upgrade to HF35-50 High Frequency (UBM) for Anterior Segment Scanning

- Easily upgraded to add the HF35-50 High Frequency (UBM) for Anterior Segment Scanning
- Combined system runs on the OTI-Scan 2000 Windows-based computer and monitor
- Seamless integration with the OTI-Scan 2000 software, same database, software features, movie and measuring capabilities
- Widest range of Gain and TGC available; Gain and TGC may be adjusted during or after image capture (post processing)
- HF35-50 Panoramic View offers the ability to image the full Anterior Segment, ciliary body, and peripheral retina

Slim Line Probe

- HF35-50 Slim Line probe is lightweight, easy to hold and manipulate
- Choice of 35 MHz and/or 50 MHz transducers for High Frequency Anterior Segment scanning

Immersion Cups

- Set of three soft silicone immersion cups included (small, medium and large)



OTI Bringing imaging to a new level