



ECHOSCAN





Three in One

The US-4000 comprehensive Ultrasound diagnostics unit includes B-Scan, Biometory and Pachymetry. Having all three functions in one compact and stylish device brings a new image to your practice.

- THE IDEAL SIZE
- •ONLY 8.5 kg
- TOUCH PANEL DISPLAY
 NO PC REOUIRED
- TILTABLE COLOR LCD





■ B-Scan

A CRISP AND CLEAR IMAGE

Image quality yields a high quality image of the patient eye which is essential for accurate analysis in B-Scan diagnostics. The key to achieving this high quality image is through sampling 400 lines over 60° which is displayed on a 1024 x 768 XGA monitor. The combination of highdensity scanning sectors and the high quality LCD monitor provides the ideal image for the most accurate diagnosis.

Multi Image Display Function



Cross Vector Mode



PRINTING WITH INTERNAL PRINTER

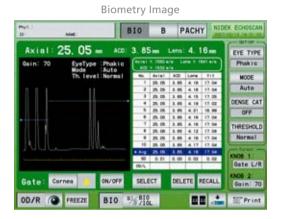
B-Scan image can be easily printed with the internal thermal printer and attached to the patient's medical record sheet.

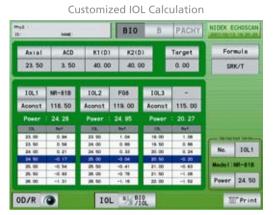


■ Biometry

FAST, ACCURATE and EASY TO USE

By using a new algorithm, the axial length measurements and IOL power calculationcan be made more than twice faster than the conventional model. The measurement accuracy for dense cataracts and an existing hazy media can be improved by pressing "Dense Cat" switch and "Gate select" switch.





Pachymetry

The US-4000 pachymetry mode offers precise measurement of the corneal thickness with a maximum \pm 5 μ error. With the pachymetry feature, the US-4000 is the only ultrasound instrument in the market able to provide all the US diagnostic solutions in a single unit.*







*Another model of US-4000 with only B-Scan and Biometry is also available.

■ Easy Data Transfer

The data can be easily stored through USB memory and LAN. By using the special interface cable, keratometry value measured by any NIDEK ARK can be automatically input into the US-4000 for easy IOL power calculation.

US-4000 Specifications

B-Scan	
Probe	10 MHz transducer, 10 frames / sec.
Scan Angle	60 °
Scan Depth	Selectable from 35, 50 mm
Sector Line Density	400 Lines
Zoom	x 2.5, x 5.0
Scale	Color, Gray scale 256 levels
Gain / TGC	0 to 90 dB variable / 0 to -20 dB variable
Gain Curves	Log, Liner, S-Curves
Biometry	
Probe	10 MHz Solid Probe
Internal Fixation	LED (red)
Measurement Value	Axial Length, Anterior Chamber Depth, Lens Thickness, Vitreous Body Length
Accuracy	± 0.1 mm
Range	12 to 40 mm
Minimum Calculation Step	0.01 D
Built-in IOL Formula	BINKHORST, HOLLADAY, SRK, SRK-2, SRK-T, HOFFR-Q
	Auto-setting of A-Constant, ACD Value and Surgeon-Factor Value are
	possible by specifying the IOL
Pachymetry	
Probe	10 MHz solid probe
Accuracy	\pm 5 μ m
Range	200 to 1300 μ m
Minimum Indicated Unit	1 μ m
Measured Part	Corneal thickness up to 25 points can be memorized.
Display	Color LCD, 8.4 inch TFT (XGA: 1024 x 768)
Printer	Thermal Type Line Printer (Easy Loading and Auto Cutter)
Power Supply	AC 100 to 120V \pm 10%, 230V \pm 10%, 50 / 60 Hz
Power Consumption	70 VA
Dimensions & Weight	300 (W) x 285 (D) x 330 (H) mm / 8.5 kg
	11.8 (W) x 11.3 (D) x 13 (H) " / 11.74 lbs

^{*}Specifications and design are subject to change without notice for improvement.



Printed on environment-friendly recycled paper.

©NIDEK 2007 Printed in Japan US-4000 NPDGM①



HEAD OFFICE

34-14 Maehama, Hiroishi Gamagori, Aichi 443-0038, Japan Telephone : 81-533-67-6611 Facsimile: 81-533-67-6610
URL: http://www.nidek.co.jp

TOKYO OFFICE

(International Div.)

3F Sumitomo Fudosan Hongo Bldg., 3-22-5 Hongo, Bunkyo-ku, Tokyo, 113-0033 Japan

Telephone: 81-3-5844-2641 Facsimile: 81-3-5844-2642
URL: http://www.nidek.com

NIDEK INC.

47651 Westinghouse Drive Fremont, CA 94539, U.S.A. Telephone: 1-510-226-5700

: 1-800-223-9044 (US only)

Facsimile : 1-510-226-5750
URL : http://www.usa.nidek.com

NIDEK SOCIÉTÉ ANONYME

Europarc

13, rue Auguste Perret 94042 Créteil, France Telephone : 33-1-49 80 97 97 Facsimile : 33-1-49 80 32 08 URL : http://www.nidek.fr

NIDEK TECHNOLOGIES SRL.

Via dell'Artigianato, 6 / A 35020 Albignasego (Padova), Italy

Telephone : 39 049 8629200 / 8626399 Facsimile : 39 049 8626824 URL : http://www.nidektechnologies.it