

US-4000/500



THE ART OF EYE CARE

Three in One

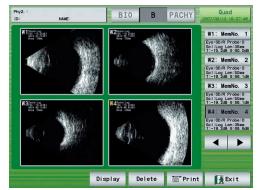
The US-4000 comprehensive ultrasound device includes B-scan, biometry*1 and pachymetry*2. Combining all three functions in one compact and innovative device brings a new image to your practice.

- *1 Optional for the US-4000. Standard for the US-500.
- *2 Optional
- COMPACT
- •ONLY A LIGHTWEIGHT 8.5 KG
- TOUCH PANEL DISPLAY
 NO PC REQUIRED
- TILTABLE COLOR LCD

■ B-scan*

A Crisp and Clear Image

The results are high quality images, which are essential for accurate analysis. The key to achieving high quality images is through scanning 400 lines over 60° which is displayed on a 1,024 x 768 XGA monitor. High contrast of resonated signals and the high quality LCD monitor provide the ideal images for the most accurate diagnosis.



Multi image display function



Cross vector mode

Internal Printer

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

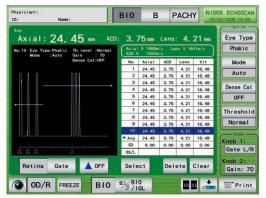


^{*}Standard for the US-4000. Not available for the US-500.

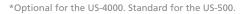
■ Biometry*

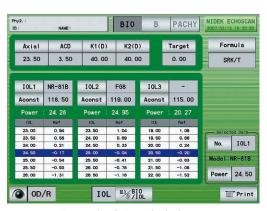
Rapid, Accurate and Easy to Use

Using the following algorithms, axial length measurements and IOL power calculations are performed twice as fast as the conventional model. Measurement accuracy for dense cataracts and existing opacities is accomplished by pressing the "Dense Cat" switch and "Gate" switch.









Customized IOL calculation

■ Pachymetry*

The pachymetry mode offers precise measurement of the corneal thickness within a $\pm 5~\mu m$ error.



45° Fixed probe

Straight probe

*Optional

■ Easy Data Transfer

Data is easily stored in USB memory or by LAN. Utilizing the special interface cable, keratometry values measured by any NIDEK ARK are automatically imported into the US-4000/500 for easy IOL power calculation.

US-4000/500 Specifications

Model	US-4000	US-500
B-scan		
Probe	10 MHz	
Scan angle	60°	
Scan depth	Normal (35 mm / 1,550 m/s), Long (50 mm / 1,550 m/s)	
Sector line density	400 lines	Mad accellents
Zoom	x2.5, x5.0	Not available
Scale	Color, Gray scale 256 levels	
Gain / TGC	0 to 90 dB / 0 to -20 dB	
Gain curves	Log, linear, S-curve	
Biometry*1		
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	, and the second
Range	12 to 40 mm	
Minimum display unit	0.01 mm	
Built-in IOL formula	Binkhorst, Holladay, SRK, SRK II, SRK/T, Hoffer Q	
Pachymetry*2	The second secon	
Probe	10 MHz solid probe	
Accuracy	±5 μm	
Range	200 to 1,300 μm	
Minimum display unit	1 μm	←
Measured point	Up to 25 points can be memorized.	
IOP correction by corneal	Manually entering IOP	
thickness		
Display	8.4-inch color LCD (XGA: 1,024 x 768)	←
Printer	Thermal line printer with automatic paper cutter	←
Interface	USB (1.1), LAN, RS-232C, Video output (NTSC)	USB (1.1), LAN, RS-232C
Power supply	100 to 120 V AC / 230 V AC, 50/60 Hz	←
Power consumption	70 VA	←
Dimensions/mass	300 (W) x 285 (D) x 330 (H) mm / 8.5 kg	
	11.8 (W) x 11.2 (D) x 13.0 (H) " / 19 lbs.	←
Standard accessories	Stylus, B-scan probe, Foot switch, Printer paper, Power cord,	Stylus, A-scan probe, Foot switch, Test piece (for biometry
	Ultrasonic gel, Dust cover, Spare fuse, Probe rest	measurement), Printer paper, Power cord, Dust cover, Spare fuse,
	ora asome ger, a ase cover, spare rase, reserves	Probe rest
Optional accessories	A-scan probe, Pachymetry probe (45° fixed type), Pachymetry	Pachymetry probe (45° fixed type), Pachymetry probe (straight
	probe (straight type), Pachymetry probe (45° detachable type),	type), Pachymetry probe (45° detachable type), Test piece for 45°
	Test piece for 45° pachymetry probes, Test piece (for biometry	pachymetry probe (45' detachable type), Test piece for 45' pachymetry probe,
	measurement), Test piece for straight pachymetry probe, Video	RS-232C cable

^{*1} Optional for the US-4000. Standard for the US-500. *2 Optional

	US-4000	US-500
B-scan	Standard	Not available
Biometry	Optional	Standard
Pachymetry	Optional	Optional



US-4000

Product/model name: ECHOSCAN US-4000

ECHOSCAN US-500

Brochure and listed features of the device are intended for non-US practitioners. Specifications may vary depending on circumstances in each country. Specifications and design are subject to change without notice.



34-14 Maehama, Hiroishi-cho, Gamagori, Aichi 443-0038, JAPAN

Phone: +81-533-67-8895

www.nidek.com Product Information www.nidek-intl.com/product/ Distributor in your country Please contact our distributor for more information. www.nidek-intl.com/dist/

