

Echoscan US-4000 / 500

US Edition



Echoscan US-4000 / 500

Three in One*

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

*Only for the US-4000

The US-500 includes Biometry and Pachymetry.

- COMPACT
- ONLY 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 1024 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.

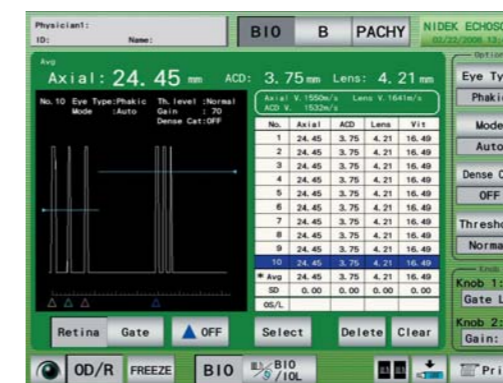


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Biometry

Rapid, Accurate and Easy to Use

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



Biometry Image



Customized IOL Calculation

Pachymetry*

The US-4000 / 500 pachymetry mode offers precise measurement of the corneal thickness within a $\pm 5 \mu\text{m}$ error.



45° fixed Probe*



45° detachable Probe



Straight Probe

*1 The model without pachymetry is also available.

*2 Provided as standard accessories depending on the configuration.

Easy Data Transfer

Data is easily stored through USB memory and 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.



Echoscan

US-4000 / 500

US Edition



US-4000 / 500 Specifications

| Model | US-4000 | US-500 |
|--------------------------|---|---|
| B-scan | | |
| Probe | 10 MHz transducer, 10 frames / second | |
| Scan angle | 60° | |
| Scan depth | Normal (35 mm / 1550 m/s), Long (50 mm / 1550 m/s) | |
| Sector line density | 400 Lines | |
| Zoom | x2.5, x5.0 | Not available |
| Moving image record | Approx. 20 seconds | |
| 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, Regression, Regression II, Formula/T, HOFFER Q | |
| Pachymetry*1 | | |
| Probe | 10 MHz solid probe | |
| Accuracy | 5 μm | ← |
| Range | 200 to 1300 μm | |
| Minimum indicated unit | 1 μm | |
| Measured part | Corneal thickness up to 25 points can be memorized. | |
| IOP correction | Available | ← |
| Display | 8.4-inch TFT color LCD (XGA: 1024 x 768) | ← |
| Printer | Thermal type line printer (Easy loading and auto cutter) | ← |
| Interface | USB memory (1.1), LAN, RS-232C for KM communication, Video out (NTSC) | USB memory (1.1), LAN, RS-232C for KM communication |
| Power supply | AC 100 to 120 V 10%, 230 V 10%, 50 / 60 Hz | ← |
| Power consumption | 70 VA | ← |
| Dimensions / Mass | 300 (W) x 285 (D) x 330 (H) mm / 8.5 kg | ← |
| Standard accessories | Stylus, B-scan probe, A-scan probe (14610-E310), Foot switch, Test piece (for Biometry measurement), Printer paper, Power cord, Ultrasonic gel, Dust cover, Spare fuse, Probe rest | Stylus, A-scan probe (14610-E310), Foot switch, Test piece (for Biometry measurement), Printer paper, Power cord, Dust cover, Spare fuse, Probe rest |
| Optional accessories | Video printer, Video printer paper, Pachymetry probe (45° fixed type)*, Pachymetry probe (45° detachable type), Pachymetry probe (straight type), Test piece for 45° pachymetry probes*, Test piece for straight pachymetry probe, Probe stand, Barcode reader, Magnetic card reader, IOL calculation formula (Hagis), RS-232C cable *Provided as standard accessories depending on the configuration. | Pachymetry probe (45° fixed type)*, Pachymetry probe (45° detachable type), Pachymetry probe (straight type), Test piece for 45° pachymetry probes*, Test piece for straight pachymetry probe, Probe stand, Barcode reader, Magnetic card reader, IOL calculation formula (Hagis), RS-232C cable *Provided as standard accessories depending on the configuration. |

*1 The model without pachymetry is also available.

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Specifications and design are subject to change without notice.



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URL: usa.nidek.com

HEAD OFFICE
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[Manufacturer]

Three in One*

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The US-500 includes Biometry and Pachymetry.

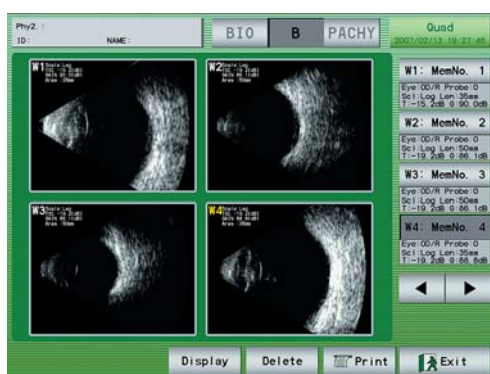
- COMPACT
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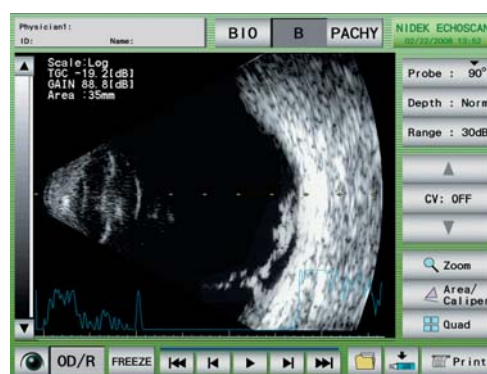
■ B-scan*

A Crisp and Clear Image

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Multi Image Display Function



Cross Vector Mode

Internal Printer

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US-4000 / 500 Specifications

| Model | US-4000 | US-500 |
|--------------------------|---|---|
| B-scan | | |
| Probe | 10 MHz transducer, 10 frames / second | |
| Scan angle | 60° | |
| Scan depth | Normal (35 mm / 1550 m/s), Long (50 mm / 1550 m/s) | |
| Sector line density | 400 Lines | |
| Zoom | x2.5, x5.0 | Not available |
| Moving image record | Approx. 20 seconds | |
| 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, Regression, Regression II, Formula/T, HOFFER Q | |
| Pachymetry*1 | | |
| Probe | 10 MHz solid probe | |
| Accuracy | 5 μm | ← |
| Range | 200 to 1300 μm | |
| Minimum indicated unit | 1 μm | |
| Measured part | Corneal thickness up to 25 points can be memorized. | |
| IOP correction | Available | ← |
| Display | 8.4-inch TFT color LCD (XGA: 1024 x 768) | ← |
| Printer | Thermal type line printer (Easy loading and auto cutter) | ← |
| Interface | USB memory (1.1), LAN, RS-232C for KM communication, Video out (NTSC) | USB memory (1.1), LAN, RS-232C for KM communication |
| Power supply | AC 100 to 120 V 10%, 230 V 10%, 50 / 60 Hz | ← |
| Power consumption | 70 VA | ← |
| Dimensions / Mass | 300 (W) x 285 (D) x 330 (H) mm / 8.5 kg | ← |
| Standard accessories | Stylus, B-scan probe, A-scan probe (14610-E310), Foot switch, Test piece (for Biometry measurement), Printer paper, Power cord, Ultrasonic gel, Dust cover, Spare fuse, Probe rest | Stylus, A-scan probe (14610-E310), Foot switch, Test piece (for Biometry measurement), Printer paper, Power cord, Dust cover, Spare fuse, Probe rest |
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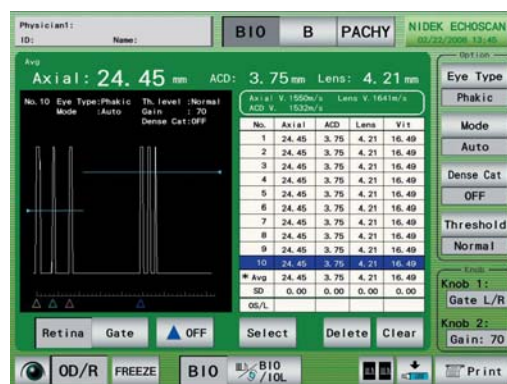
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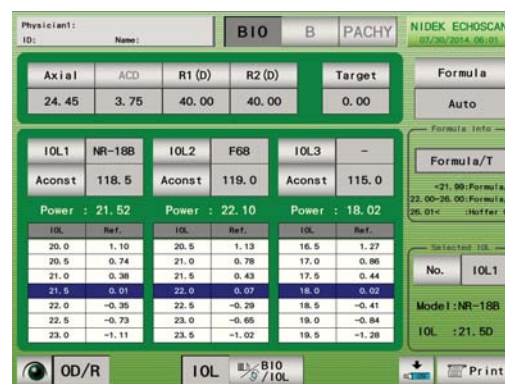
■ Biometry

Rapid, Accurate and Easy to Use

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Biometry Image



Customized IOL Calculation

■ Pachymetry*1

The US-4000 / 500 pachymetry mode offers precise measurement of the corneal thickness within a $\pm 5 \mu\text{m}$ error.



45° fixed Probe*2



45° detachable Probe



Straight Probe

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■ Easy Data Transfer

Data is easily stored through USB memory and 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 transducer, 10 frames / second | Not available |
| Scan angle | 60° | |
| Scan depth | Normal (35 mm / 1550 m/s), Long (50 mm / 1550 m/s) | |
| Sector line density | 400 Lines | |
| Zoom | x2.5, x5.0 | |
| Moving image record | Approx. 20 seconds | |
| 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 | | |
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| 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, Regression, Regression II, Formula/T, HOFFR Q | |
| Pachymetry* ¹ | | |
| Probe | 10 MHz solid probe | ← |
| Accuracy | 5 μm | |
| Range | 200 to 1300 μm | |
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| Measured part | Corneal thickness up to 25 points can be memorized. | |
| IOP correction | Available | ← |
| Display | 8.4-inch TFT color LCD (XGA: 1024 x 768) | ← |
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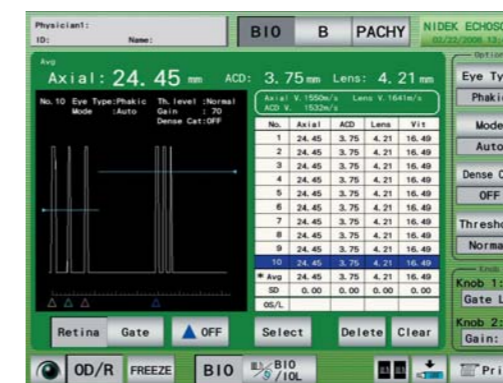


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