UD-800

Ultrasonic A/B Scanner and Pachymeter

The B-scanner, biometer, pachymeter and A-diagnostic – all in one. The UD-800 was developed to satisfy your expectations and requirements. Features such as the new generation of annular array probe, high-resolution touch-screen operation, and data communication via USB or LAN makes this device easy to handle and fast and efficient in operation. With its 10 MHz 2-ring array B-scan probe and A-scan biometry probe, the UD-800 is a fantastic choice as your basic tool.

Excellent features

+ Modular configurable system
+ External database (USB flash drive)
+ Unique 2-ring array 10 MHz B-probe
+ Biometer A-scan 10 MHz (optional)
+ Pachymetry (optional)
+ UBM 40 MHz B-probe (optional)
+ A-diagnostic probe (optional)

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Always read and follow the instructions for use.
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Specifications

10 MHZ B-MODE (IMAGE DISPLAY)	
Frame rate	Basic mode: 20 frame/sec
Image display range	Standard: 35.2 mm/52° (at ultrasound velocity = 1550 m/sec) Wide: 48.0 mm/52° (at ultrasound velocity = 1550 m/sec)
Display resolution	Lateral accuracy: 0.6 mm Axial accuracy: 0.6 mm

10 MHZ B-PROBE	
Transducer type	2-ring
Scan type	Sector scanning
Acoustic lines	131 lines (step by 0.4°)

AXIAL LENGTH MEASUREMENT (BIOMETRY)	
Axial length	15.00 mm to 45.00 mm
ACD	1.80 mm to 7.00 mm
Lens thickness	2.00 mm to 6.00 mm
Measurement accuracy	±0.1 mm
Measurement resolution	0.01 mm

IOL POWER CALCULATION	
IOL power calculation	Haigis standard, Haigis optimised, Hoffer® Q, Holladay 1, SRK II, SRK/T, SRK SHOWA, Shammas-PL, SRK/T Double K

BIOMETRY PROBE	
Type	Solid state
Fixation light	Built in the probe, Red LED
Transducer frequency	10 MHz
Tip diameter	5.3 mm ϕ
Dimensions/Weight	8 mm ϕ × 100 mm/30 g

CORNEAL THICKNESS MEASUREMENT (PACHYMETRY)	
Measurement range	150 µm to 1,500 µm
Measurement accuracy	±5 µm
Measurement resolution	1 µm

PACHYMETRY PROBE	
Type	Solid state
Transducer frequency	20 MHz
Tip diameter	1.5 mm with an angle of 45°
Dimensions/Weight	8.8 mm ϕ × 90 mm/40 g

A-SCAN DIAGNOSTIC	
Measurement range	60 mm

A-SCAN DIAGNOSTIC PROBE	
Type	Solid state
Transducer frequency	10 MHz
Tip diameter	6.0 mm ϕ
Dimensions/Weight	8 mm ϕ× 100 mm/30 g

DIMENSIONS AND ELECTRICAL REQUIREMENTS	
Dimensions WDH	310 mm x 214 mm x 326 mm
Weight	6 kg
Voltage	100 VAC to 240 VAC
Frequency	50/60 Hz
Power consumption	120 VA
Display	TFT LCD 10.4'' colour touch screen