



TECHNICAL SPECIFICATIONS

BIOMETRY

Adjustable gain: 20 to 110 dB
Time Gain Control (TGC): 0 to 30 dB

11 MHz probe

Transducer frequency: 11 MHz
Tip diameter: 7 mm (0.28")
Electronic resolution: 0.03 mm (0.0012")
Depth: 60 mm (2.4") for 1,536 points
Contact and immersion techniques compatible
Aiming beam: LED or laser pointer ProBeam™*

Axial length measurements

Ultrasound propagation velocity adjustable per segment (anterior chamber, lens, vitreous) and IOL and vitreous material

Built-in pattern recognition: phakic, aphakic, PMMA, acrylic and silicone for pseudophakic eyes

Automatic calculation of standard deviation and average total length (series of 10 measurements)

Acquisition modes: automatic, auto + save, manual

Automatic detection of scleral spike

IOL calculation

SRK-T, SRK-II, HOLLADAY, BINKHORST-II, HOFFER-Q, HAIGIS

Post-op refractive calculation:

- Pre-op and post-op refraction, pre-op and post-op keratometry
- 6 Different methods for keratometry correction and implant calculation: history derived, refraction derived, contact lens method, Rosa regression, Shammas regression, Double K/SRK-T (Dr Aramberri formula)
- 9 values bracketed for desired ametropia for each IOL (IOL increment steps: 0.25 D or 0.50 D)
- Simultaneous display of 4 different IOL calculations

DATA MANAGEMENT

Built-in physician and patient database
Exportation of still images
Customisable digital and printed reports
DICOM compatible (Worklist, Storage, Print)*
EMR compatible
Compatible with PC and USB video printers

PACHYMETRY*

Transducer frequency: 20 MHz
Tip diameter: 1.2 mm (0.05")
Method: contact
Convergence: 0.5 mm (0.02") from tip
Angle: 45°

Corneal thickness measurements

Measurement range: 200 to 999 microns
Number of measurements: 1 to 10
Precision: ± 5 microns
Velocity: adjustable
Methods: central measurement or cartographic map (automatic, continuous, scanning)
Cartographic map: user-9C8L-9C4L-5C8L-5C4L-9C-5C-8L-4L

IOP correlation tables

Tables correlating for intraocular pressure and corneal thickness:
Ehlers + Doughty + Dresdner + unlimited number of user-defined tables

Specifications

Bias correction: up to 120%

GENERAL INFORMATION

8" Back-lit LCD colour touch screen (resolution 1024 x 768 px)

Electrical requirements

Power supply: 100 – 240 VAC $\pm 10\%$ single-phase + earth
Frequency: 50 – 60 Hz
Power: 60 W max.

Features

Overall dimensions: W: 22.6 cm (8.9 in) D: 15.8 cm (6.23 in)
H: 22.9 cm (9.02 in)
Touch screen dimensions: 8.0" (16.2 cm x 12.1 cm) (6.4" x 4.8")
Weight: 2.5 kg (5.51 lbs)
Ports: 3 USB, 1 Ethernet, 1 HDMI

Peripherals and accessories included with the basic model

Footswitch
Bluetooth mouse

Peripherals and accessories in option*

External PC printer Windows Operating System compatible (USB or Wifi)
Video printer with USB connection

(* Option)

Specifications are subject to change without notice. Non contractual pictures.
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BIBLIOGRAPHY

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2. New laser fixation device for ultrasound biometry – M. Charles – Ophthalmol. Clin. Exp. 2007



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