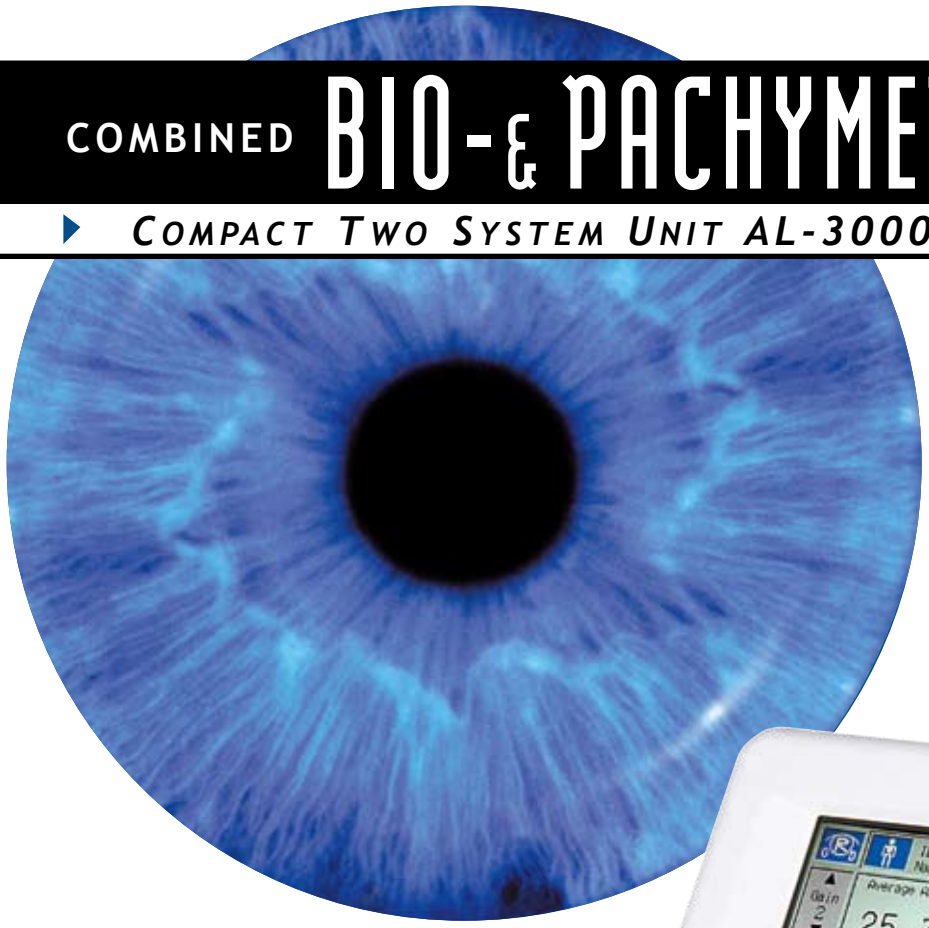
COMBINED BIO-& PACHYMETER

COMPACT TWO SYSTEM UNIT AL-3000



- *Automatic CCT Corrected IOP Calculations*
- *Colour Touch Screen*
- *Automated Measurement*
- *Contact / Immersion Mode*
- *7 IOL-Calculation Formulae*
- *2 Programmable Pachymetry Maps*
- *Memory Card*

HS Optikmaschinen

AL-3000
Bio- & Pachymeter

AL-3000

The touch screen allows you to move quickly through the menu e.g. from axial length to IOL-calculation.

The pachymeter map allows you to individually define 25 reading points on two programmable maps over the cornea.

The pachy-probe is angled at 45° for optimized readings; The short A-Scan probe has fixation light included.

Its Benefit is its Precision

The AL-3000 is the small, lightweight masterpiece of ultrasound technology for ophthalmic surgery. User-friendliness is a key feature of this compact device. Thanks to the touch screen you have immediate access to all relevant functions.

Competence in Ultrasound Technology

You can use preselection modes for normal, aphakic, pseudophakic and dense cataract eyes. We have introduced a new feature that allows measurement in both – contact and immersion mode. The AL-3000 provides easy measurement: automatically or with the foot-switch, but always sound assisted. The average value can be calculated from up to ten single measurements. Every single trace can be displayed on screen, analysed and if necessary, can be retaken. A break through for the AL-3000 is its ability to measure distances within the eye by cursor movements. Receive a hard copy of your measurement results and curve diagrams with the silent built-in printer.

Pachymetry

The optional pachymetry mode allows to measure and display corneal thickness. Use average calculation out of ten data or define 25 reading points individually on two programmable maps over the cornea.

IOP Calculation

With the programmable IOP formula you are able to get the central cornea thickness (CCT) corrected IOP. The AL-3000 calculates this automatically with the formula of your choice.

The Touch Away to IOL Calculation

Quickly switch from biometry to automated IOL calculation with a screen touch. Just combine corneal curvatures (mm or diopter) with the desired postoperative refraction and the AL-3000 will guide you to perfect results using different formulas (SRK/II, SRK/T, Holladay, Hoffer Q, Showa, Haigis optimized/standard). One feature is the Haigis formula with a special algorithm to calculate the exact IOL power, especially for high myopic and high hyperopic eyes.

Specifications

Biometry

A-Scan Probe	10 MHz (±10 %)
Eye Type Modes	Dense Cataract, Aphakic, Pseudophakic, Normal

Measurement Settings

Hand Mode	Automated ±2 to Avg
Chin Mode	Automated ±1 to Avg
Manual	Foot Switch
Converted Velocity	800-3000 m/s
Axial Length	15-40 mm
ACD	1.80-7.00 mm
Lens Thickness	2-6 mm
Accuracy	±0.1 mm
Resolution	0.01 mm

IOL Calculation

Formulae	SRK-II, SRK-T, Holladay, Hoffer Q, Haigis Standard, Optimized, Showa
IOL- Storage	Up to 10 Lenses

Pachymetry

Single Mode	10 Single + Average
Corneal Thickness Map	2 Programmable Maps with up to 25 Points
Cross Section	View of the Programmable Corneal Cut Line
Bias Values	Mode 1:70% (60 to 130) Mode 2:250 µm (-600 to 450)

Measurement Range

Range 1	150-350 µm
Range 2	300-1000 µm
Range 3	900-1500 µm
Velocity	1640 m/s (1400 to 2000)
Accuracy	±0.005 mm
Resolution	0.001 mm
Pachymeter Probe	20 MHz (±10 %)
IOP Calculation	Up to 3 different formlae

Main Unit

Display	10.2" Colour LCD Touch-Screen
Printer	Build-in Thermal Printer
Connector RS-232	Z-Modem

Dimensions & Electric Requirements

Dimensions WDH	298 x 285 x 263 mm
Weight	Approx. 5.0 kg
Power Supply	AC 100 V to 240 V
Frequency	50/60 Hz
Power Consumption	Less than 55 VA

HS Optikmaschinen
Handwerkerstraße 14
48720 Rosendahl-Holtwick
Tel: 02566/4720
Fax: 02566/1620
Email: hsoptikmaschinen@hotmail.com
www.hs-optikmaschinen.de