

One vision, Two sharp eyes with Our Innovation

# AL-100

Biometer

Capturing Critical Eye Measurements  
Maximum Precision and Ease-of-use



- Axial Length Measurement & IOL Power Calculation
- Easy-to-Use Touch Screen
- Automatic Tone-Assisted Measurement
- Compact & Lightweight
- Contact or Immersion Modes
- Built-in Printer
- Operator Adjustable Velocity
- 512K Memory Card (Optional)

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## Measure Axial Length Quickly & Easily

The AL-100 is designed for fast, simple operation. Tone-assisted measurement notifies the operator when the probe is aligned & measurements recorded. The AL-100 takes up to 10 readings, for use in the IOL calculation. The AL-100 measures axial lengths from 15-40mm with an accuracy of  $\pm 0.1\text{mm}$  & a resolution of 0.01mm. Eye modes include Normal, Aphakic, Pseudophakic & Dense Cataract. Pseudophakic mode is able to select three materials: Silicone, Acrylic and PMMA. Measurements may be acquired automatically or manually & in Contact or Immersion modes.

## IOL Power Calculations

The AL-100 calculates IOL power with a vast array of formulas: SRK II, SRK/T, Holladay, Haigis Standard, Haigis Optimized & Showa. Other formulas may be added as well.

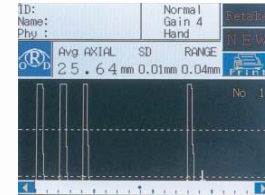
The AL-100 can display up to two lens constants & the corresponding IOL powers. Up to 10 lenses & lens constants can also be stored for use (along with the corresponding Surgeon Factor, SF).

## Data Storage & Output

Entering patient & lens data is simple & direct with the large, easy-to-read touch screen. No more small or unattached keypads to make data entry a chore. The AL-100 also stores up to six patients in its internal memory & up to 240 patients in the optional 512Kb PC memory card.

The AL-100 also has built-in printer, which can print either a standard waveform & IOL calculation, for both eyes, or more complete printout with all of the measured & calculated data, for both eyes.

In addition, there is an RS-232C port for direct connection to a PC & the office database.



Clear spikes for accurate & reliable measurements.



Quick & easy date review.



Easy comparison with different parameters.

## AL-100 SPECIFICATIONS

### Biometry / IOL Power Calculation

#### Measurement Range

Axial Length	15.00 – 40.00mm
Anterior Chamber Depth	1.8 – 7.0mm
Lens Thickness	2.0 – 6.0mm

#### Accuracy

Measurement Accuracy	$\pm 0.1\text{mm}$
Resolution	0.01mm

#### IOL Calculation

Formula	SRK II, SRK/T, HOLLADAY, SHOWA, HAIGIS Optimized, HAIGIS Standard
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#### Biometry Probe

Type	Solid (with Immersion option)
Fixation Light	Built-in (Red LED)
Ultrasound Frequency	10 MHz
Diameter of the Tip	5.3mm
Size / Weight	8mm x 97mm / 30g (0.3 x 3.8" / 1 oz.)

#### Main Body

STN Liquid Crystal Display 5.7 inches Color

#### Ultrasound Energy

Ispta3 Less than 17mW/cm<sup>2</sup>  
 Isppa3 Less than 28mW/cm<sup>2</sup>  
 MI Less than 0.23

#### Dimensions

220mm (W) x 222mm (D) x 275mm (H)  
 8.7" (W) x 8.7" (D) x 10.8" (H)  
 4kg (8.8lbs.)

#### Weight

#### Power Source

Voltage AC 100 to 240V  
 Frequency 50/60 Hz  
 Power Consumption 42VA



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