

Innovative Eyecare Technology with Foresight

# AL100

## [Biometer]



- Measures axial length and calculates IOL power
- Easy-to-use touch-screen
- Automatic tone-assisted measurement
- Compact and lightweight
- Built-in printer

### Measure axial length quickly and easily

The AL-100 is designed for fast, simple operation. Tone-assisted measurement notifies the operator when the probe is aligned and measurements recorded. The AL-100 takes up to 15 readings, and displays and averages the best ten (10) readings for use in the IOL calculation. The AL-100 measures axial lengths from 15-40 mm with an accuracy of  $\pm 0.1$  mm and a resolution of 0.01 mm. Eye modes include Normal, Aphakic, Pseudophakic and Dense cataract. Measurements may be acquired automatically or manually and 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, and Showa. Other formulas may be added as well.

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

# AL100

## [Biometer]



### Data Storage and Output

Entering patient and lens data is simple and 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 and up to 240 patients in the optional 512Kb PC memory card.

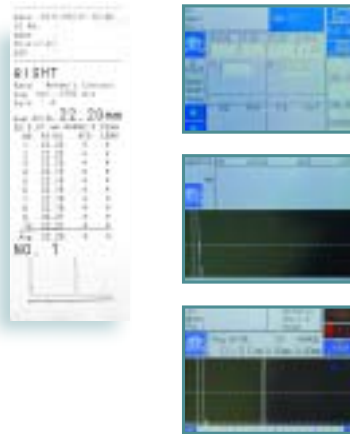
The AL-100 also has an integral printer, which can print either a standard waveform and IOL calculation, for both eyes, or a more complete printout with all of the measured and calculated data, for both eyes.

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

### The Tomey AL-100 Biometer.

*Capture critical eye measurements simply and easily.*

- Axial length measurement with waveform display
- IOL Power calculation
- Touch-screen control
- Tone-assisted measurement
- Compact and lightweight
- Contact or Immersion modes
- Built-in printer
- Optional memory card



## [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	+/- 0.1mm
Resolution	0.01mm

#### IOL Calculation

Formula	SRK II, SRK/T, HOLLADAY, SHOWA, HAIGIS optimized, HAIGIS standard
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#### Biometry probe

Type	Solid State
Fixation Light	Built-in (Red LED)
Ultrasound Frequency	10 MHz
Diameter of the tip	5.3 mm
Size / Weight	8mm x 97mm / 30g (.3 x 3.8" / 1 oz.)

#### Main unit

Display	STN LCD (5.7 Inch / Color)
Size / Weight	220mm (w) x 222mm (d) x 275mm (h) / 4kg 8.7"(w) x 8.7"(d) x 10.8"(h) / 9lb.

#### Power source

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

#### Ultrasound Power

Ispta3	Less than 17mW/cm2
Isppa3	Less than 28W/cm2
MI	Less than 0.23

[www.tomey.com](http://www.tomey.com)



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