

One vision, Two sharp eyes with Our Innovation

# AL-3000

Biometer/Pachymeter



- Axial Length Measurements with Waveform Display
- Corneal Thickness Measurement
- IOL Power Calculation
- Ultrasound Technology
- STN Colored Touch Screen LCD
- Compact & Lightweight
- Automatic Tone-Assisted Measurement
- Contact & Immersion Mode
- 6 IOL Calculation Formulas
- Multipoint Pachymeter Map
- Wide Measurement Range
- Solid State Probes

## AL-3000 SPECIFICATIONS

### BIOMETRY (A-scan)

#### Probe

Type	Solid State
Fixation Light	Built-in Red LED
Transducer Frequency	10 MHz ± 10%
Tip Radius	5.0mm
Dimensions / Weight	8mm x 100mm / 30g

#### Probe Modes

Contact, Immersion

#### Measuring Modes

Automatic	Hand-held, Chin Rest
Manual	Foot Switch

#### Measuring Range

Axial Length	15 - 40 mm
Anterior Chamber Depth (ACD)	2 - 7 mm
Lens Thickness	2 - 6 mm

#### Eye Modes

Dense Cataract, Aphakic, Pseudophakic (Silicone, Acrylic & PMMA), Normal ± 0.1 mm  
0.01 mm

#### Accuracy

#### Resolution

#### IOL Calculations

Formulas: SRK II, SRK/T, Holladay, Haigis (Optimised & Standard), Showa  
Number of IOLs Parameters: 10  
Axial Length, Keratometry Readings, Post-op Refraction, Lens Constants (A/SF/ACD), IOL Model

### PACHYMETRY

#### Probe

Type	Solid State
Transducer Frequency	20 MHz ± 10%
Tip Radius	1.5mm with an Angle of 45 Degree
Dimensions/Weight	8.8 mm x 90 mm / 40g
Measuring Modes	Automatic, Manual, Single Point, Multiple Points(25 max)

#### Measuring Range

150 - 1,500 μm

#### Accuracy

± 5 μm

#### Resolution

1 μm

#### Bias Setting

60 - 130%

-600 - +450 μm

### MAIN UNIT

#### Display

#### Printout

#### Power Requirements

Color LCD; 680 x 480  
Built-in Thermal Printer  
AC100~120/220~240V 50/60 Hz;  
45/55VA + 15% or Less  
298(W)x 285(D)x 263(H)mm/5Kg  
11.8(W)x 8.2(D)x 9.3(H)in/11.9lb

#### Dimensions/Weight

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# AL-3000

Essential for Eye Care  
Invincible High Quality

## Biometer/Pachymeter



- Axial Length & Corneal Thickness Measurements
- Multiple IOL Power Calculation Windows
- Easy-to-use Touch Screen Colored LCD
- Compact & Lightweight



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# AL-3000

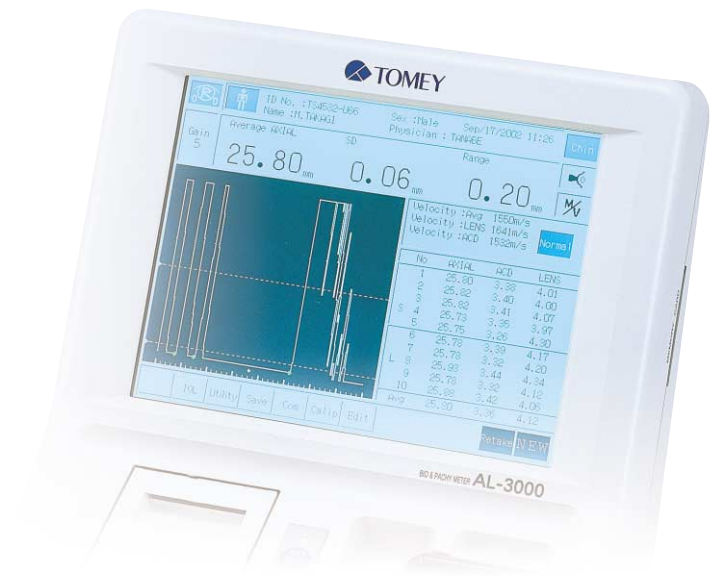
Biometer/Pachymeter

# Essential for Eye Care, Invincible High Quality

With touch screen control, automatic tone-assisted measurement & visual graphic displays, acquisition & evaluation of axial length measurements are almost effortless.

Measuring modes include Normal, Dense Cataract, Aphakic & Pseudophakic of Silicone, Acrylic, PMMA & other IOLs.

The AL-3000 can be used in either contact or immersion mode & measurements can be taken automatically or manually.



**Axial Length Measurement**

Patient Info. Large waveform, Average, S.D... Everything at a glance



**IOL Power Calculation**

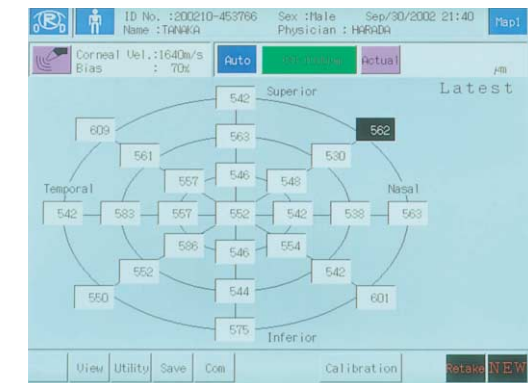
Two formulae, One screen Touch, change and watch!

## Pachymeter Function



**Pachymetry: Single**

Up to 10 measurements from single location. Easy data review on large screen.



**Pachymetry: Map**

In multiple mode, up to 25 locations across the cornea can be mapped.

IOL power is calculated automatically after entering the corneal curvature data & the desired postoperative refraction. The most popular formulae are provided:SRK II, SRK/T, Holladay & the new Haigis formula with a special algorithm for accurate IOL calculation for high myopes & high hyperopes.

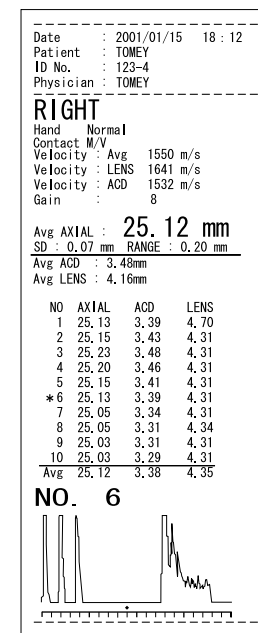
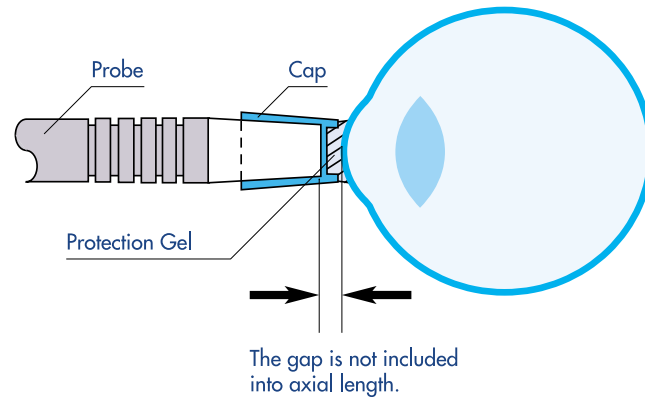
Using the pachymetry probe, the AL-3000 measures corneal thickness from 150 to 1,500  $\mu$ m. Single or multiple measurements may be acquired. In single mode, up to 10 measurements from a single location can be averaged. In multiple mode, up to 25 locations across the cornea can be mapped.

## Immersion Option for Accuracy



The AL-3000 has standard function of immersion measurements to avoid pressing cornea by probe. TOMEY Immersion Cap is easy-to-use & effective for virus disinfection among patients.

### Immersion Cap Option



## Capture & Display Readings Instantly

The AL-3000's high resolution color touch screen display provides a simple user interface & allows fast, easy access to all available programs. Detailed waveforms may be viewed, patient data may be stored & printouts may be obtained.

## Manage & Analyze Patient Data with Expandable Memory

The AL-3000 provides a PC memory card that stores data for up to 237 patients. Additional memory cards are available from TOMEY to expand storage capacity.

