

# AL-4000

## Bio- & Pachymeter

This extremely handy and easy-to-use combination of biometer and pachymeter leaves nothing to be desired in terms of comfort and flexibility. Wireless communication plus the fully integrated IOL power calculation software allow users to access the complete set-up of the handheld device AL-4000 on a PC.

### Excellent features

- + Axial length and corneal thickness
- + Multiple IOL power calculation
- + A-scan diagnostic probe (optional)
- + Compact body
- + Integrated database software (TB-1000)
- + Contact and immersion mode
- + Bluetooth



TOMEY EUROPE  
TOMEY GMBH



tomey.de

TOMEY GmbH is the European headquarter of TOMEY Corporation,  
2-11-33 Noritakeshinmachi Nishi-Ku, Nagoya, 451-0051, Japan

2025/07 – subject to change without notice

Always read and follow the instructions for use.  
Not all products, services or offers are approved or offered in every market. Please note that the current status of approval for the labelling, instructions and contents of the brochure may vary from one country to another.

## Specifications

AXIAL LENGTH MEASUREMENT (BIOMETRY)	
Axial length	13.00 mm to 45.00 mm
ACD	1.50 mm to 7.00 mm
Lens thickness	2.00 mm to 6.00 mm

BIOMETER ACCURACY	
Measurement accuracy	±0.1 mm
Measurement resolution	0.01 mm

AUXILIARY INFORMATION	
IOL power calculation	SRKII, SRK/T, HOLLADAY, Hoffer® Q, HAIGIS Standard

BIOMETRY PROBE	
Type	Solid state
Fixation light	Built in the probe, Red LED
Transducer frequency	10 MHz
Tip diameter	6.0 mm $\phi$
Dimensions/Weight	14.0 mm $\phi$ × 98 mm / 40 g

CORNEAL THICKNESS MEASUREMENT (PACHYMETRY)	
Measurement range	150 $\mu$ m to 1,500 $\mu$ m
Measurement accuracy	±5 $\mu$ m
Measurement resolution	1 $\mu$ m

PERCENT BIAS/PLUS/MINUS BIAS SETTING RANGE	
Percent bias	60 % to 130 %
Plus/minus bias	-600 $\mu$ m to +450 $\mu$ m
Factory setting converted velocity	1,640 m/s
Range of the converted velocity	1,400 m/s to 2,000 m/s

PACHYMETRY PROBE	
Type	Solid state
Transducer frequency	20 MHz
Tip diameter	1.5 mm $\phi$ with an angle of 45°
Dimensions/Weight	8.8 mm $\phi$ × 90 mm / 30 g

A-SCAN DIAGNOSTIC	
Measurement range	60 mm

A-SCAN DIAGNOSTIC PROBE	
Type	Solid state
Transducer frequency	10 MHz
Tip diameter	5 mm $\phi$
Dimensions/Weight	8 mm $\phi$ × 97 mm / 30 g

DIMENSIONS AND ELECTRICAL REQUIREMENTS	
Dimensions WDH	109 mm × 52 mm × 166 mm
Weight	470 g
Display	TFT LCD: 3.5" colour

