

SUOER

Optical Biometer
SW-9000



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SUOER μ -Meter (SW-9000) This optical biometric instrument is used for the measurement of the optic axis and the calculation for correct IOL readings with full accuracy. The fast measurement speed and non-contact are intended for patient comfortability. Capturing 8 different measurements in less than 5 seconds which are Corneal thickness, Anterior chamber depth, Lens thickness, Axial length, Corneal curvature, Axial angle, White to White distance measurement (corneal diameter), and Pupil diameter.

Technical data

Measurement range

Axial length	12 - 34 mm
Central corneal thickness	300 - 800 μ m
Corneal radii	4.8 - 11.1 mm
Axis angle	0° - 180°
Anterior chamber depth	1.5 - 6.0 mm
Lens thickness	0.5 - 7.0 mm
White-to-white	6.5 - 16.6 mm
Pupil diameter	1.9 - 13.5 mm

Resolution

Axial length	0.01 mm
Central corneal thickness	1 μ m
Corneal radii	0.01 mm
Axis angle	1°
Anterior chamber depth	0.01 mm
Lens thickness	0.01 mm
White-to-white	0.01 mm
Pupil diameter	0.01 mm

SD of repeatability

Axial length	$\pm 25 \mu$ m
Central corneal thickness	$\pm 2 \mu$ m
Corneal radii	$\pm 10 \mu$ m
Axis angle	$\pm 9^\circ$
Anterior chamber depth	$\pm 20 \mu$ m
Lens thickness	$\pm 50 \mu$ m
White-to-white	± 0.3 mm
Pupil diameter	± 0.3 mm

IOL calculation formulas

BinkHorst-II, Holladay, Hoffer-Q, Haigis, SRK-T, SRK-II

Calculation for eyes following refractive surgery

Shammas-PL, Masket, Modified Masket

Interfaces	USB2.0
Voltage/Frequency	AC 220V/50Hz
Power consumption	50VA
Laser class	1



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