

One vision, Two sharp eyes with Our Innovation

OA-2000

Optical Biometer



- + Topography
- Enhanced usability
- Connection with ultrasonic measurement unit
- One-shot IOL power calculation
- Internal Database

OA-2000 SPECIFICATIONS

Measurement range

Axial length 14 - 40mm 1.5 - 7.0mm Anterior chamber depth Crystalline lens thickness 0.5 - 6.0mm Corneal thickness 0.2 - 1.2mm Corneal curvature radius 5.0 - 11mm Pupil diameter 1.5 - 13mm Corneal diameter 7 - 16mm

Measurement accuracy

Axial length ±0.03mm Anterior chamber depth $\pm 0.05 mm$ Crystalline lens thickness ±0.05mm Corneal thickness ±5µm

Corneal curvature radius ± 0.02 mm($\phi 3$ mm / $\phi 2.5$ mm)

Pupil diameter ± 0.1 mm Corneal diameter ±0.3mm

Display resolution

Axial length 0.01mm Anterior chamber depth 0.01mm Crystalline lens thickness 0.01mm Corneal thickness 1µm Corneal curvature radius 0.01mm

IOL power calculation formula

Haigis standard, Haigis optimized, Hoffer® Q, Holladay 1, SRK/T, OKULIX Shammas-PL, SRK/T Double K

Built in Printer Thermal printer

Data output type USB-H×2, USB-D×2, LAN

SD Card (for Internal Database)

Display 10.4 inches and color TFT monitor

Dimensions 300(W) × 490(D) × 450(H)mm

Weight Approx. 24kg

Power Supply 100 - 240VAC, 50/60Hz

110VA



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Internal Database

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New approach to pre-cataract surgery examinations



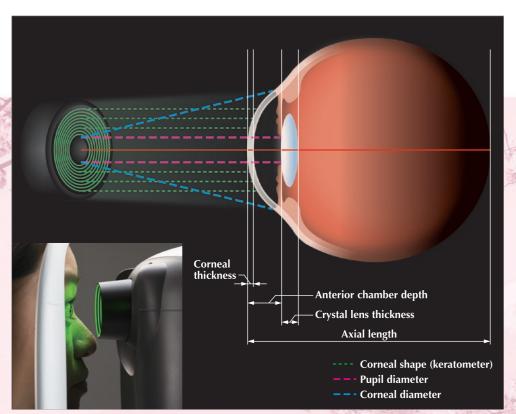


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OA-2000 **Optical Biometer**

New approach to pre-cataract surgery examinations





IOL power can be calculated in the main unit based on the data obtained.



Fourier domain axial length measurement + Topography

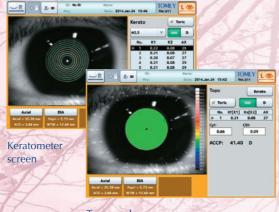
The Fourier domain method is used as a measuring method that features high-speed superior tissue penetration. It is equipped with a search function that automatically detects a measurable point even when the crystal lens is unclear.



Measurement result screen with search waveform

The ring cone method is used to measure the radius of corneal curvature.

In addition to the \(\phi 3.0 \) mm position measured by a general Keratometer, ø2.5 mm and ø2.0 mm positions are also simultaneously measured.



Topography screen

Additionally, up to Ø5.5 mm of the cornea is captured and the topography (corneal shape map) is drawn using the ring cone method. The topography is useful for checking eyes after LASIK surgery or for identifying corneal irregular astigmatism, or observing variations in the corneal shape before and after surgery. It is also equipped with a function that supports the axis where the toric intraocular lens is to be inserted in the cataract surgery.



Toric intraocular lens auxiliary function screen

IOL power calculation function

The OA-2000 is standard equipped with nine IOL power formulas, including two formulas for eyes after LASIK surgery. Up to 15 types of IOL can be registered.

Seven formulas & Ray tracing

Haigis standard, Haigis optimized, Hoffer® Q, Holladay 1, SRK/T, OKULIX <Formulas exclusively for eyes after LASIK surgery> Shammas-PL, SRK/T Double K ("Easy IOL" will be supported.)



Enhanced usability

In spite of sizing that allows the unit to be installed on a compact optical bench, it is equipped with a 10.4-inch large monitor with a tilting function that adjusts the position to the level of

physician's eyes.



Simply touching the center of the pupil displayed on the monitor screen begins alignment. Measurement starts immediately via the Auto Alignment and Auto Shot functions. Even when the physician operates the unit for the first time, intuitive operation

is possible.

In the event that automatic measurement is difficult, manual measurement is possible using an electric joystick.



Connection with an ultrasonic measurement unit

In cases where optical measurement is difficult due to blood in the eyes or other issues, the OA-2000 can be

connected wirelessly to the ultrasonic axial length measurement unit AL-4000. IOL power calculation, data storage and other operations can be performed on the main unit of the OA-2000.



One-shot IOL power calculation

Up to seven sets of measurement data, such as corneal thickness and anterior chamber depth in addition to axial length and corneal curvature, can be obtained in one shot in short time.

A series of operations from the examination before cataract surgery to the management after surgery can be performed with the OA-2000, including IOL power calculation, post-surgery data storage, A-constant optimization, and statistical processing.



Measurement screen