One vision, Two sharp eyes with Our Innovation

OA-2000 Optical Biometer

New approach to examination unit before cataract surgery

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

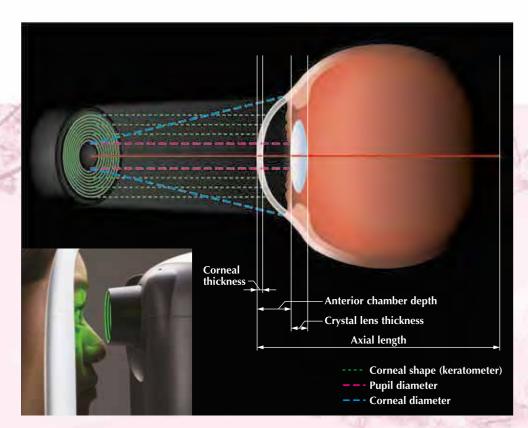


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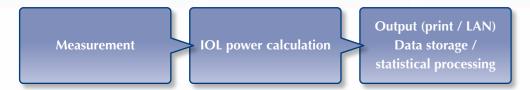
OA-2000 Optical Biometer

New approach to examination unit before cataract surgery





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. 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 Ø3.0 mm position measured by a general Keratometer, Ø2.5 mm and Ø2.0 mm positions are also simultaneously measured.



Topography screen

Also, 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 corneal irregular astigmatism, or observing the variation in the corneal shape before and after the 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 lens can be registered.

Nine formulas

SRK-II formula, SRK/T formula, HOLLADAY formula, Hoffer Q formula, HAIGIS optimized formula, HAIGIS standard formula, SRK SHOWA formula,

<Formulas exclusively for eyes after LASIK surgery>

Double K SRK/T, Shammas-PL formula (Will be supported on "OKULIX" "EASY IOL")



IOL calculation screen

Enhanced usability

In spite of a size 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 Short 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 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 the corneal thickness and anterior chamber depth in addition to the 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 one OA-2000, including IOL power calculation, post-surgery data storage, A-constant optimization, and statistical processing.



Measurement screen

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A-2000

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OA-2000 SPECIFICATIONS

Measurement range

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

Measurement accuracy

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

Corneal curvature radius ± 0.02 mm(ϕ 3 mm / ϕ 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

SRK-II formula, SRK/T formula, HOLLADAY formula, Hoffer Q formula, HAIGIS optimized formula, HAIGIS standard formula, SRK SHOWA formula, Double K SRK/T, Shammas-PL formula

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 $300(W) \times 490(D) \times 450(H)mm$

Weight Approx. 24kg

Power Supply 100 - 240VAC, 50/60Hz

110VA



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