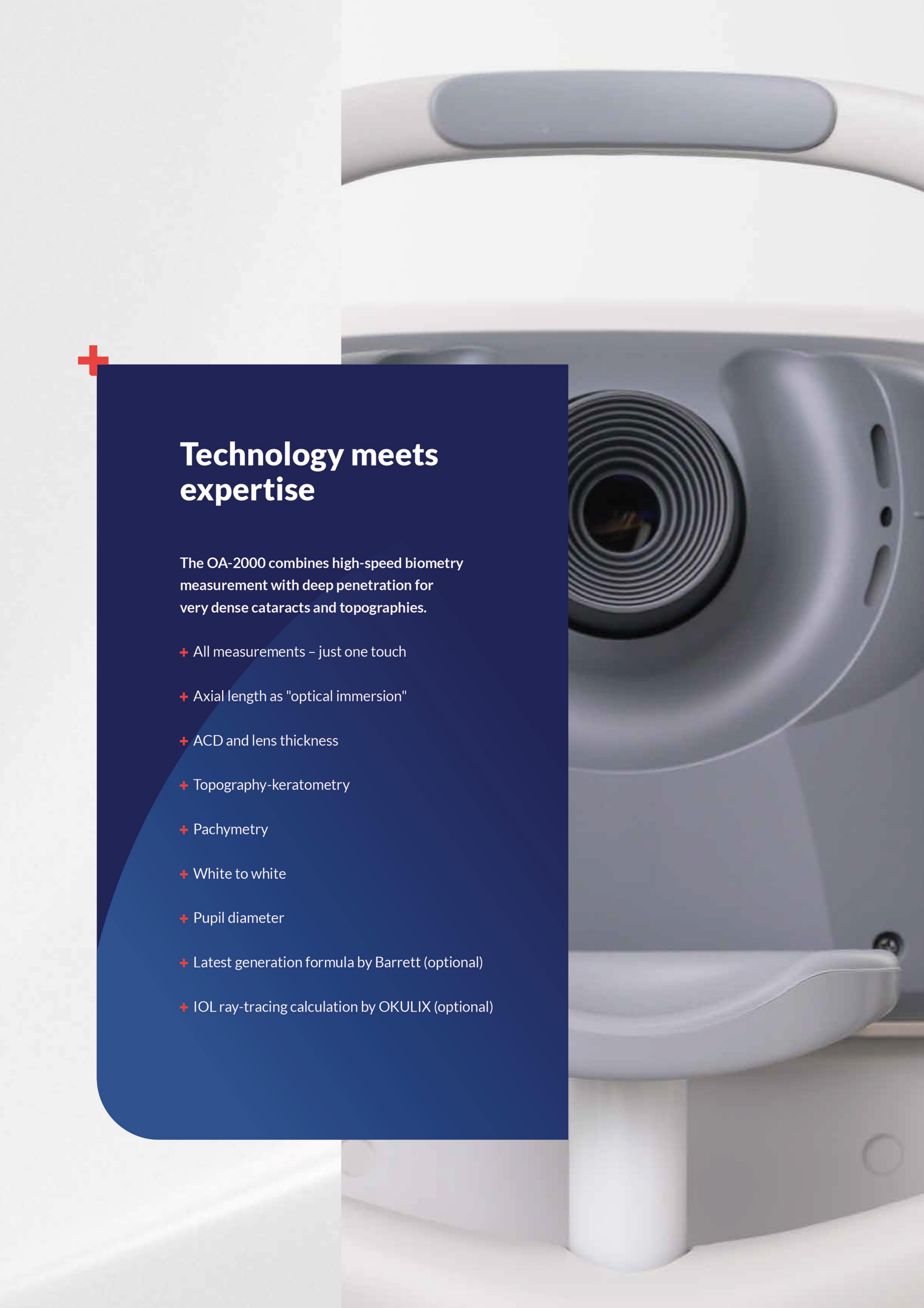




OA-2000

*Optical
Biometer*



A close-up photograph of the OA-2000 biometry device, showing its grey and white plastic housing and a large, circular, multi-ribbed lens. A red plus sign is visible on the left side of the image.

Technology meets expertise

The OA-2000 combines high-speed biometry measurement with deep penetration for very dense cataracts and topographies.

- + All measurements – just one touch
- + Axial length as "optical immersion"
- + ACD and lens thickness
- + Topography-keratometry
- + Pachymetry
- + White to white
- + Pupil diameter
- + Latest generation formula by Barrett (optional)
- + IOL ray-tracing calculation by OKULIX (optional)

You + eye.
We care.



“OA-2000 DELIVERS
A FULLY AUTOMATED
OPTICAL BIOMETRY
IN JUST A FEW SECONDS.
IT’S EASY TO OPERATE
AND JUST AS INNOVATIVE.
A GREAT SYNERGY!”

Cesar Cardoso

AREA SALES MANAGER,
MIDDLE EAST / AFRICA

OA-2000

Optical Biometer

The OA-2000 is the perfect instrument for measuring axial length, the corneal curvature radius, corneal topography and more in a single shot. High penetration capability is available using the Fourier domain method, which enables high-speed scans.



Intuitive operation

Simply touching the monitor automatically starts the alignment. The measurement begins immediately thanks to the auto alignment and auto scan functions.

CLINIC CLINIC ID NAME CLINIC ADDRESS CLINIC NO		Date: 2023/04/18 12:38:07 Surgeon: HEMER	
Name: / Sex: / Physician: /		Date: 2023/04/18 12:38:07 Surgeon: HEMER	
R (OD)	AXIAL: 22.59mm ACD(Endo): 2.95mm Lens: 3.65mm Pachy: 506um K1(0.0): 7.97mm 3° K2(0.0): 7.65mm 93° TargetREF: 0.00D	L (OS)	AXIAL: 22.86mm ACD(Endo): 2.98mm Lens: 3.65mm Pachy: 517um K1(0.0): 8.01mm 179° K2(0.0): 7.61mm 89° TargetREF: 0.00D
Alcon: SMOATT I Q toric	90°	Alcon: SMOATT I Q toric	89°
SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A
24.00 2.25 0.77/-0.20/180 0.77/-0.20/180	23.50 3.00 0.67/-0.06/179 0.67/-0.06/179	23.50 3.00 0.67/-0.06/179 0.67/-0.06/179	23.50 3.00 0.67/-0.06/179 0.67/-0.06/179
24.50 2.25 0.44/-0.20/180 0.44/-0.20/180	23.50 3.00 0.33/-0.06/179 0.33/-0.06/179	23.50 3.00 0.33/-0.06/179 0.33/-0.06/179	23.50 3.00 0.33/-0.06/179 0.33/-0.06/179
25.00 2.25 0.11/-0.20/180 0.11/-0.20/180	24.00 3.00 -0.04/-0.06/179 -0.03/-0.06/179	24.00 3.00 -0.04/-0.06/179 -0.03/-0.06/179	24.00 3.00 -0.04/-0.06/179 -0.03/-0.06/179
25.50 2.25 -0.22/-0.21/180 -0.22/-0.21/180	24.50 3.00 -0.37/-0.08/179 -0.37/-0.08/179	24.50 3.00 -0.37/-0.08/179 -0.37/-0.08/179	24.50 3.00 -0.37/-0.08/179 -0.37/-0.08/179
26.00 2.25 -0.59/-0.21/180 -0.59/-0.21/180	25.00 3.00 -0.71/-0.07/179 -0.71/-0.07/179	25.00 3.00 -0.71/-0.07/179 -0.71/-0.07/179	25.00 3.00 -0.71/-0.07/179 -0.71/-0.07/179
HOYA: Vividex t oric XY1A	90°	HOYA: Vividex t oric XY1A	89°
SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A
23.50 2.25 1.00/-0.20/180 0.76/-0.20/180	22.50 3.00 0.91/-0.08/179 0.71/-0.08/179	22.50 3.00 0.91/-0.08/179 0.71/-0.08/179	22.50 3.00 0.91/-0.08/179 0.71/-0.08/179
24.00 2.25 0.67/-0.21/180 0.45/-0.20/180	23.00 3.00 0.52/-0.06/179 0.32/-0.06/179	23.00 3.00 0.52/-0.06/179 0.32/-0.06/179	23.00 3.00 0.52/-0.06/179 0.32/-0.06/179
24.50 2.25 0.33/-0.21/180 0.13/-0.21/180	23.50 3.00 0.14/-0.06/179 -0.03/-0.06/179	23.50 3.00 0.14/-0.06/179 -0.03/-0.06/179	23.50 3.00 0.14/-0.06/179 -0.03/-0.06/179
25.00 2.25 0.01/-0.21/180 -0.23/-0.21/180	24.00 3.00 -0.19/-0.07/179 -0.37/-0.07/179	24.00 3.00 -0.19/-0.07/179 -0.37/-0.07/179	24.00 3.00 -0.19/-0.07/179 -0.37/-0.07/179
25.50 2.25 -0.46/-0.22/180 -0.63/-0.21/180	24.50 3.00 -0.49/-0.07/179 -0.74/-0.06/179	24.50 3.00 -0.49/-0.07/179 -0.74/-0.06/179	24.50 3.00 -0.49/-0.07/179 -0.74/-0.06/179
Rayner: RayOne toric RAO613Z	90°	Rayner: RayOne toric RAO613Z	89°
SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A
23.50 2.25 0.93/-0.15/180 0.76/-0.14/180	22.50 3.00 0.85/-0.08/179 0.69/-0.08/179	22.50 3.00 0.85/-0.08/179 0.69/-0.08/179	22.50 3.00 0.85/-0.08/179 0.69/-0.08/179
24.00 2.00 0.50/-0.15/180 0.47/-0.15/180	23.00 3.00 0.52/-0.06/179 0.35/-0.06/179	23.00 3.00 0.52/-0.06/179 0.35/-0.06/179	23.00 3.00 0.52/-0.06/179 0.35/-0.06/179
24.50 2.00 0.16/-0.15/180 0.08/-0.15/180	23.50 3.00 0.15/-0.09/179 -0.03/-0.09/179	23.50 3.00 0.15/-0.09/179 -0.03/-0.09/179	23.50 3.00 0.15/-0.09/179 -0.03/-0.09/179
25.00 2.00 -0.08/-0.16/180 -0.27/-0.15/180	24.00 3.00 -0.18/-0.10/179 -0.35/-0.10/179	24.00 3.00 -0.18/-0.10/179 -0.35/-0.10/179	24.00 3.00 -0.18/-0.10/179 -0.35/-0.10/179
25.50 2.00 -0.44/-0.16/180 -0.63/-0.16/180	24.50 3.00 -0.51/-0.10/179 -0.70/-0.10/179	24.50 3.00 -0.51/-0.10/179 -0.70/-0.10/179	24.50 3.00 -0.51/-0.10/179 -0.70/-0.10/179
OA-2000 (EN) UK Ver: 004-026		TOMEY	

CLINIC CLINIC ID NAME CLINIC ADDRESS CLINIC NO		Date: 2023/04/18 12:38:07 Surgeon: HEMER	
Name: / Sex: / Physician: /		Date: 2023/04/18 12:38:07 Surgeon: HEMER	
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SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A
24.00 2.25 0.77/-0.20/180 0.77/-0.20/180	23.50 3.00 0.67/-0.06/179 0.67/-0.06/179	23.50 3.00 0.67/-0.06/179 0.67/-0.06/179	23.50 3.00 0.67/-0.06/179 0.67/-0.06/179
24.50 2.25 0.44/-0.20/180 0.44/-0.20/180	23.50 3.00 0.33/-0.06/179 0.33/-0.06/179	23.50 3.00 0.33/-0.06/179 0.33/-0.06/179	23.50 3.00 0.33/-0.06/179 0.33/-0.06/179
25.00 2.25 0.11/-0.20/180 0.11/-0.20/180	24.00 3.00 -0.04/-0.06/179 -0.03/-0.06/179	24.00 3.00 -0.04/-0.06/179 -0.03/-0.06/179	24.00 3.00 -0.04/-0.06/179 -0.03/-0.06/179
25.50 2.25 -0.22/-0.21/180 -0.22/-0.21/180	24.50 3.00 -0.37/-0.08/179 -0.37/-0.08/179	24.50 3.00 -0.37/-0.08/179 -0.37/-0.08/179	24.50 3.00 -0.37/-0.08/179 -0.37/-0.08/179
26.00 2.25 -0.59/-0.21/180 -0.59/-0.21/180	25.00 3.00 -0.71/-0.07/179 -0.71/-0.07/179	25.00 3.00 -0.71/-0.07/179 -0.71/-0.07/179	25.00 3.00 -0.71/-0.07/179 -0.71/-0.07/179
HOYA: Vividex t oric XY1A	90°	HOYA: Vividex t oric XY1A	89°
SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A
23.50 2.25 1.00/-0.20/180 0.76/-0.20/180	22.50 3.00 0.91/-0.08/179 0.71/-0.08/179	22.50 3.00 0.91/-0.08/179 0.71/-0.08/179	22.50 3.00 0.91/-0.08/179 0.71/-0.08/179
24.00 2.25 0.67/-0.21/180 0.45/-0.20/180	23.00 3.00 0.52/-0.06/179 0.32/-0.06/179	23.00 3.00 0.52/-0.06/179 0.32/-0.06/179	23.00 3.00 0.52/-0.06/179 0.32/-0.06/179
24.50 2.25 0.33/-0.21/180 0.13/-0.21/180	23.50 3.00 0.14/-0.06/179 -0.03/-0.06/179	23.50 3.00 0.14/-0.06/179 -0.03/-0.06/179	23.50 3.00 0.14/-0.06/179 -0.03/-0.06/179
25.00 2.25 0.01/-0.21/180 -0.23/-0.21/180	24.00 3.00 -0.19/-0.07/179 -0.37/-0.07/179	24.00 3.00 -0.19/-0.07/179 -0.37/-0.07/179	24.00 3.00 -0.19/-0.07/179 -0.37/-0.07/179
25.50 2.25 -0.46/-0.22/180 -0.63/-0.21/180	24.50 3.00 -0.49/-0.07/179 -0.74/-0.06/179	24.50 3.00 -0.49/-0.07/179 -0.74/-0.06/179	24.50 3.00 -0.49/-0.07/179 -0.74/-0.06/179
Rayner: RayOne toric RAO613Z	90°	Rayner: RayOne toric RAO613Z	89°
SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A	SE Cyl Paraxial S / C / A
23.50 2.25 0.93/-0.15/180 0.76/-0.14/180	22.50 3.00 0.85/-0.08/179 0.69/-0.08/179	22.50 3.00 0.85/-0.08/179 0.69/-0.08/179	22.50 3.00 0.85/-0.08/179 0.69/-0.08/179
24.00 2.00 0.50/-0.15/180 0.47/-0.15/180	23.00 3.00 0.52/-0.06/179 0.35/-0.06/179	23.00 3.00 0.52/-0.06/179 0.35/-0.06/179	23.00 3.00 0.52/-0.06/179 0.35/-0.06/179
24.50 2.00 0.16/-0.15/180 0.08/-0.15/180	23.50 3.00 0.15/-0.09/179 -0.03/-0.09/179	23.50 3.00 0.15/-0.09/179 -0.03/-0.09/179	23.50 3.00 0.15/-0.09/179 -0.03/-0.09/179
25.00 2.00 -0.08/-0.16/180 -0.27/-0.15/180	24.00 3.00 -0.18/-0.10/179 -0.35/-0.10/179	24.00 3.00 -0.18/-0.10/179 -0.35/-0.10/179	24.00 3.00 -0.18/-0.10/179 -0.35/-0.10/179
25.50 2.00 -0.44/-0.16/180 -0.63/-0.16/180	24.50 3.00 -0.51/-0.10/179 -0.70/-0.10/179	24.50 3.00 -0.51/-0.10/179 -0.70/-0.10/179	24.50 3.00 -0.51/-0.10/179 -0.70/-0.10/179
OA-2000 (EN) UK Ver: 004-026		TOMEY	

Paperless documentation

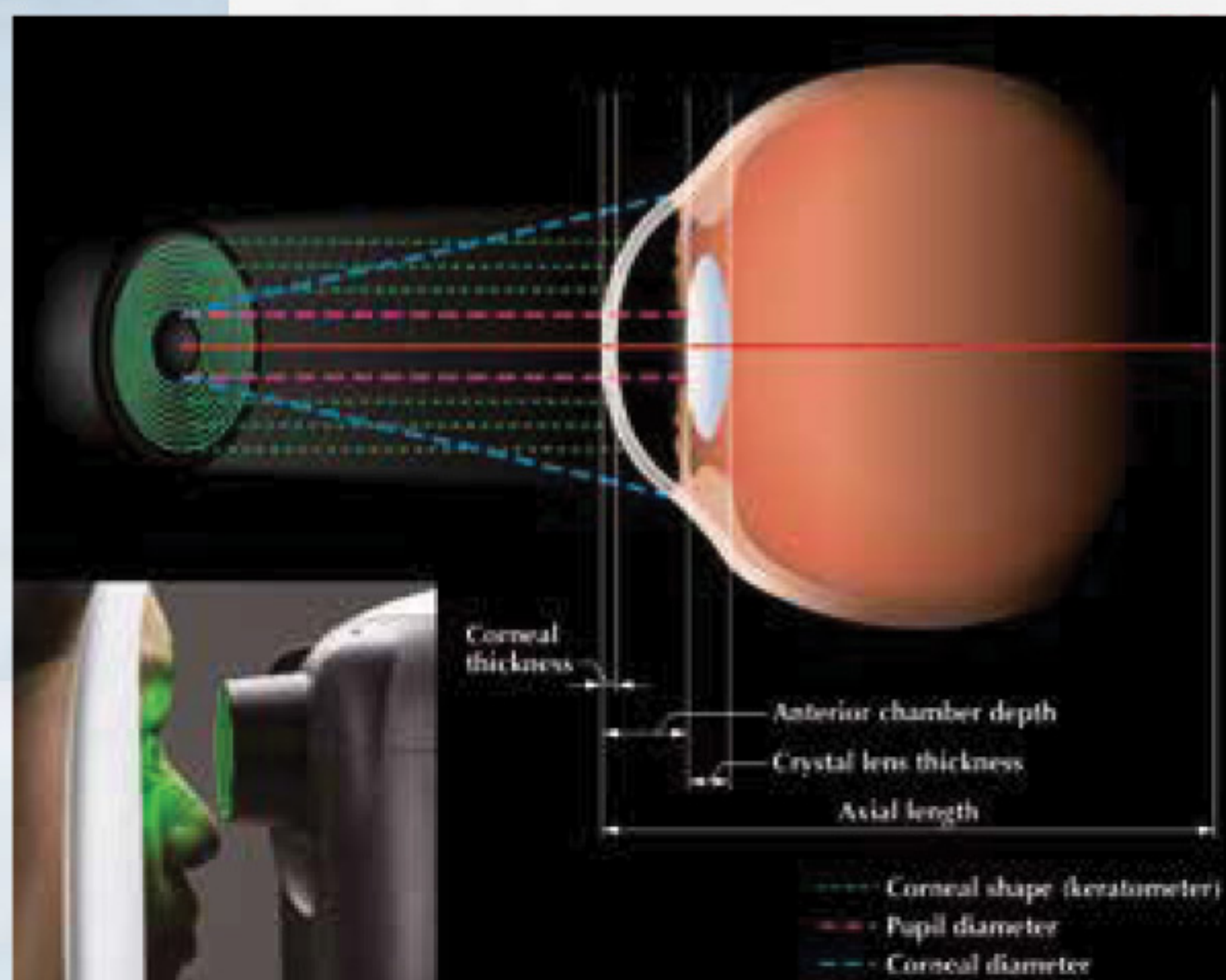
OA-2000 is designed for paperless documentation. Other than printing, there are multiple report options.



Fourier domain method

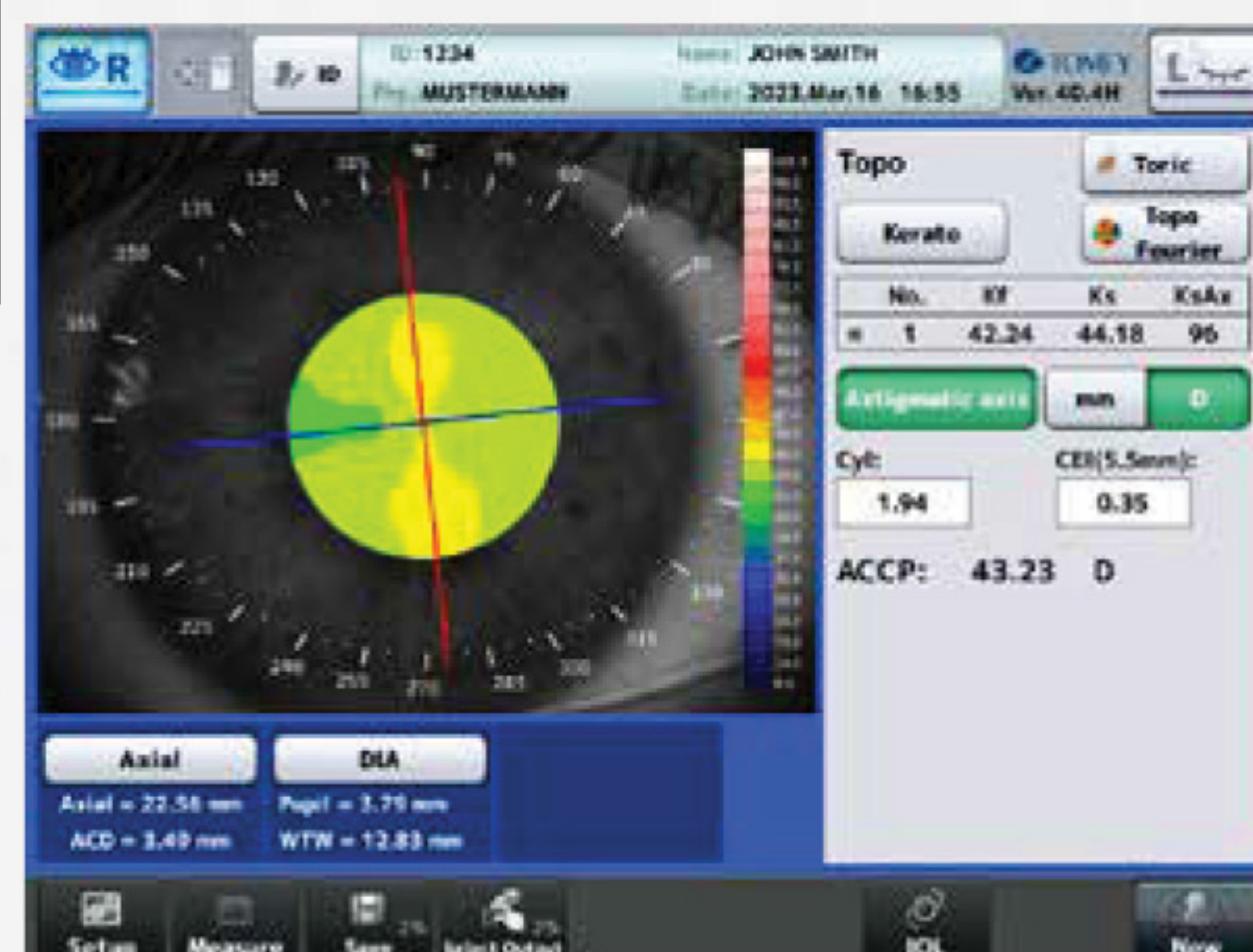
The Fourier domain method is a measurement technique that contributes to OA-2000's high-speed scanning.

In addition to the Fourier domain method, OA-2000 utilizes vector scans. This enhances high measurement rates even in patients with lens opacity.



Ring cone method

The ring cone method is used to measure the radius of corneal curvature at $\varnothing 2.0$ mm, $\varnothing 2.5$ mm and $\varnothing 3.0$ mm.



Topography

The topography is useful for checking eyes after LASIK surgery, identifying corneal irregular astigmatism, and observing variations in the corneal shape before and after surgery.

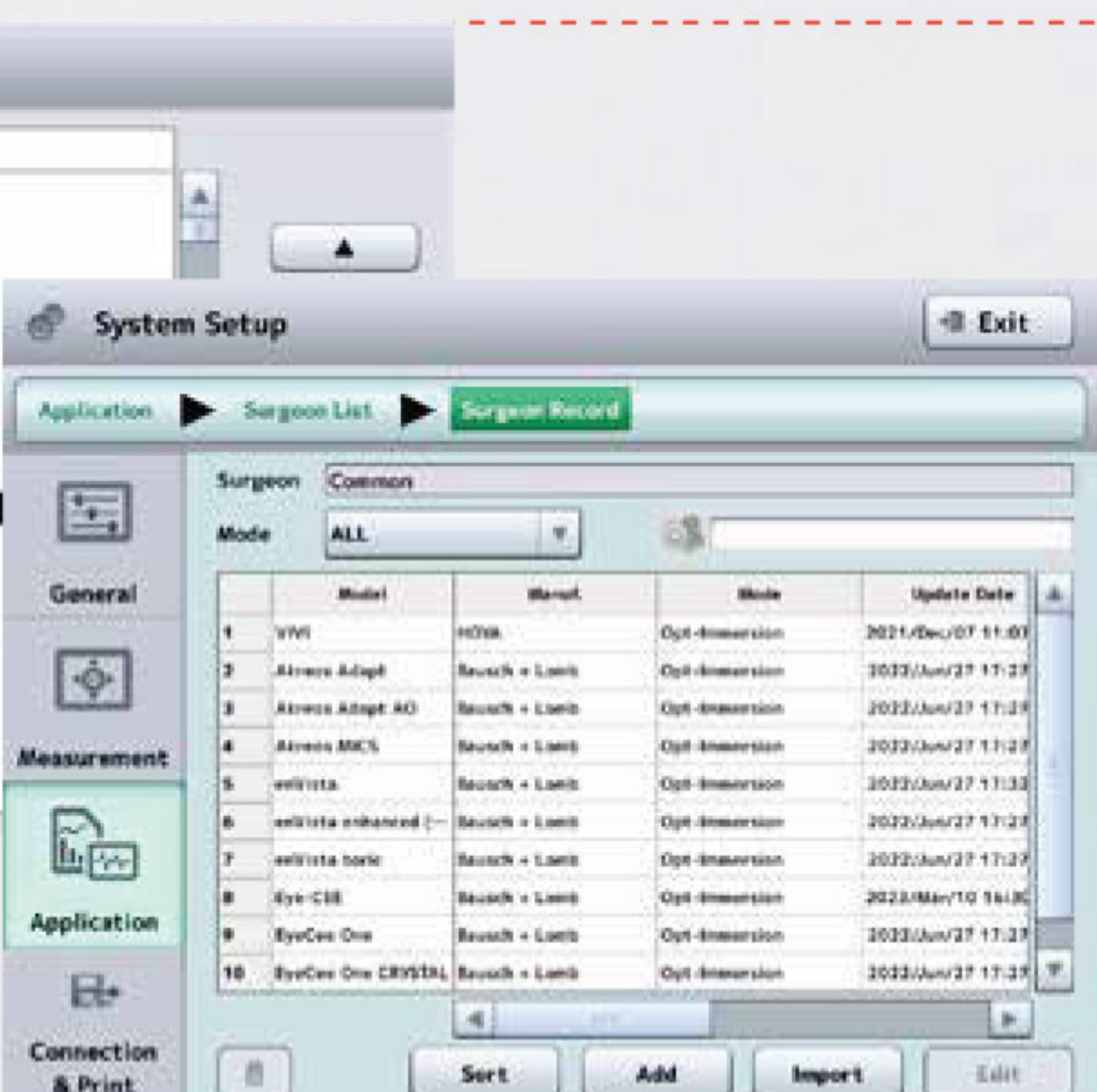


Easy to operate

One touch for the measurement, and just one click to calculate the IOL.

IOL calculation

Since the two largest resources for IOL information are integrated (the www.IOLCON.org and OKULIX) doctors can choose their preferred lenses and type of IOL calculation.



Specifications



MEASUREMENT RANGE

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

MEASUREMENT ACCURACY

Axial length	±0.03 mm
Anterior chamber depth	±0.05 mm
Crystalline lens thickness	±0.05 mm
Corneal thickness	±5 µm
Corneal curvature radius	±0.02 mm (ø3 mm/ø2.5 mm)
Pupil diameter	±0.1 mm
Corneal diameter	±0.3 mm

AUXILIARY INFORMATION / DISPLAY RESOLUTION

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

IOL POWER CALCULATION FORMULA

Haigis standard, Haigis optimised, Hoffer® Q, Holladay 1, Olsen, SRK/T, Shammas-PL, SRK/T Double K
Optional: OKULIX, Barrett Universal II, Barrett Toric Calculator, Barrett True K Toric Calculator, Barrett True K formula,

DATA MANAGEMENT

Built-in printer	Thermal printer
Data output type	USB-H×2, USB-D×1, LAN SD card
Display	10.4-inch colour TFT monitor

DIMENSIONS AND ELECTRICAL REQUIREMENTS

Dimensions WDH	300 × 490 × 450 mm
Weight	approx. 24kg
Power supply	100 – 240VAC, 50/60Hz 110VA
Laser class	Class 1 under IEC60825-1

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