

OPTICAL BIOMETER OA-2000

OPTICAL BIOMETER & TOPOGRAPHY-KERATOMETER

DELIGHT IN SIGHT

Fully automated.
Touch screen operated.



- All measurements – simply one touch
- IOL Ray Tracing Calculation by OKULIX (optional)
- Topography-Keratometer
- Pupil diameter
- Axial length
- Pachymetry
- ACD & LENS thickness
- White to White

 **TOMEY**
TECHNOLOGY AND VISION

THE TOMHEY OA-2000 OPTICAL BIOMETER



QUALITY IN DETAIL

ALL MEASUREMENTS – SIMPLY ONE TOUCH

By simply touching the center of the pupil on the monitor the measurement starts immediately. Due to our well known 3D eye tracking technology all relevant data are captured quickly, even with uncooperative patients. Starting with topography, pachymetry, ACD and lens thickness followed by axial length, pupil diameter and white to white – this guarantees an enhanced usability in terms of IOL power calculation.

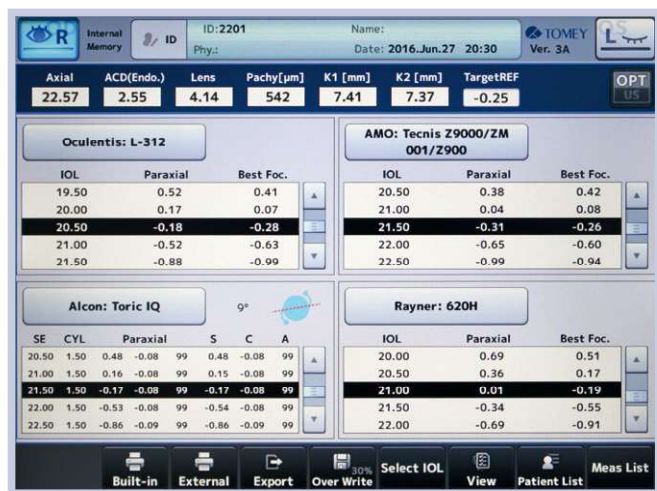
EASY HANDLING

The **OA-2000** is compact, fast, user- and patient friendly and therefore easily delegable due to the minimised error ratio.

ADVANCED IOL CALCULATION / RAY TRACING

The **OA-2000** integrates topography, axial length, lens thickness and pachymetry which yield perfect data set for ray tracing. This assures best results even in exceptional eye conditions or Toric IOL calculation.

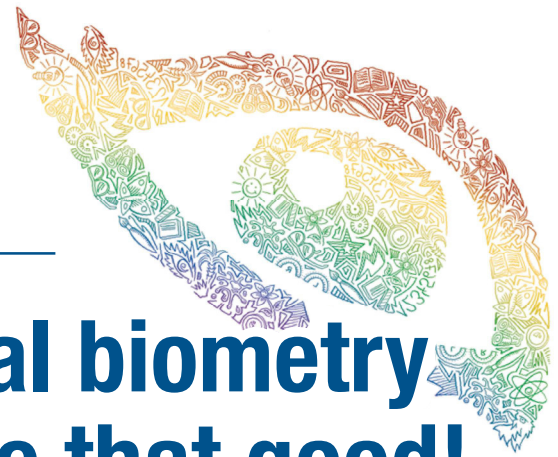
No matter if you use standard formulas or ray tracing calculation – both options are possible with the **OA-2000**.



IOL power calculation OKULIX



Easy IOL – a new way of ray tracing



Optical biometry can be that good!



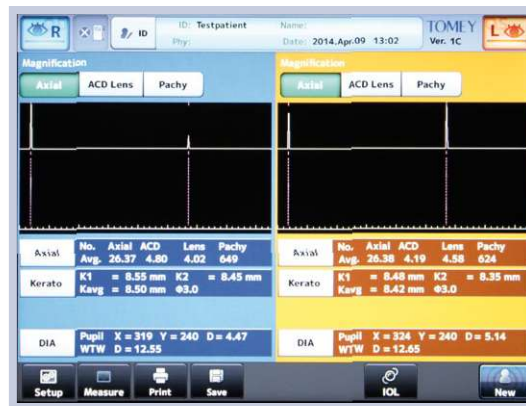
A video says more than a thousand words – just scan this QR-Code.



Touch screen operation



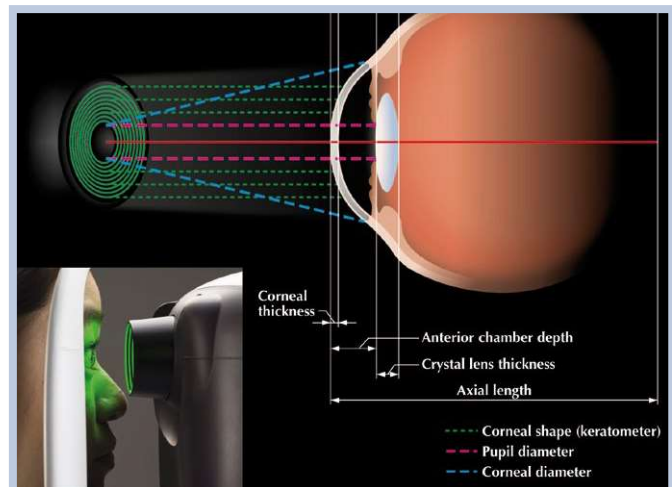
Topography screen



Measurement screen dual view

LATEST TECHNOLOGY

With the latest Tomey Fourier domain A-scan technology you are able to measure almost all cases of dense cataract. Rare cases of really mature lenses can be covered by our AL-4000 ultrasound handheld device, which is communicating with the OA-2000 via bluetooth.



SPECIFICATIONS

MEASUREMENT METHODS AND FUNCTIONS	
Automatic measurements	Axial / ACD / LT / Pachy / Topography Kerato / Pupil / DIA / WtoW
Measurement steps	After alignment patient eyes, Axial, ACD, LT, Pachy, Kerato, Pupil and DIA will be measured automatically
Eyetracking	3D
Cornea power / kerato	Placido ring cone topography
Pupil diameter W to W	Video analysis iris
AxI CCT ACD LT	Opt, low coherence interferometer
Dense / mature cases	Optional AL-4000 via BT or AL-100 via cable
MEASUREMENT RANGE AND RESOLUTION	
Cornea power	5.0 ~ 11 mm (0.01 mm)
Pupil detection	1.5 ~ 13 mm (0.1 mm)
W-to-W	7 ~ 16 mm (0.3 mm)
ACD	1.5 ~ 7.0 mm (0.01 mm)
AxI optical	14 ~ 40 mm (0.01 mm)
AxL (US optional)	13.00 ~ 45.00 mm (0.01 mm)
Central cornea thickness optic	OPT: 0.2 ~ 1.2 mm (1 µm)
Pachy periphery (US optional)	US 150 to 1,500 µm (1 µm)
Lens thickness LD	0.5 ~ 6.0 mm (0.01 mm)

LIGHT SOURCE	
Type	Swept source laser
IOL – CALCULATION FORMULAE	
Gaussian optics formula	SRK-T, Holladay, Hoffer Q, HAIGIS optimized formula, Showa, HAIGIS standard formula
EXCEPTIONAL EYE CONDITIONS	
PL KS DESEK	<ul style="list-style-type: none"> • Shammas PL / Double K SRK/T • OKULIX (RT) / EASY IOL (RT) • Phaco optics supported

UNIT	
Display	10.4" colour TFT touch screen
Display length resolution	0.01 mm
Display CCT resolution	1 µm
Dimensions WDH	300 x 490 x 450 mm
Weight	Approx. 24 kg
Power supply	100 - 240 VAC; 50/60 Hz; 110VA
COMMUNICATION / CONNECTORS	
Style report	JPEG, CSV
Connections	LAN, 4 x USB, SD-card, BT (AL-4000)
Format export files	JPEG, CSV
Internal database	On SD-card
Connections to	TomeyLink / data transfer



OA-2000 communicates with OCT SS-1000, Bio-/Pachymeter AL-4000, A-scan/Biometer AL-100 and Scheimpflug TMS-5.



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