

ALADDIN

Optical Biometry & Topography System

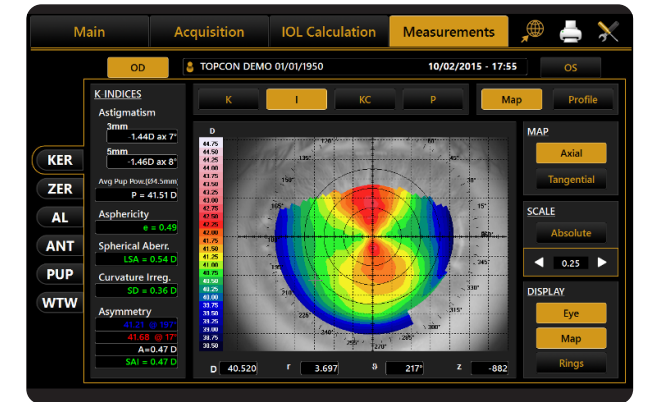
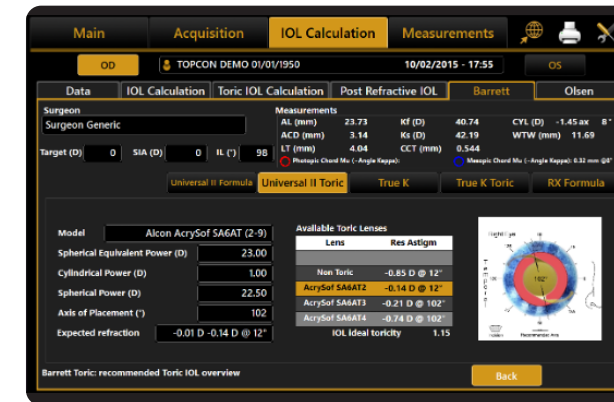
Essential data for premium IOL planning,
delivered in **one platform**



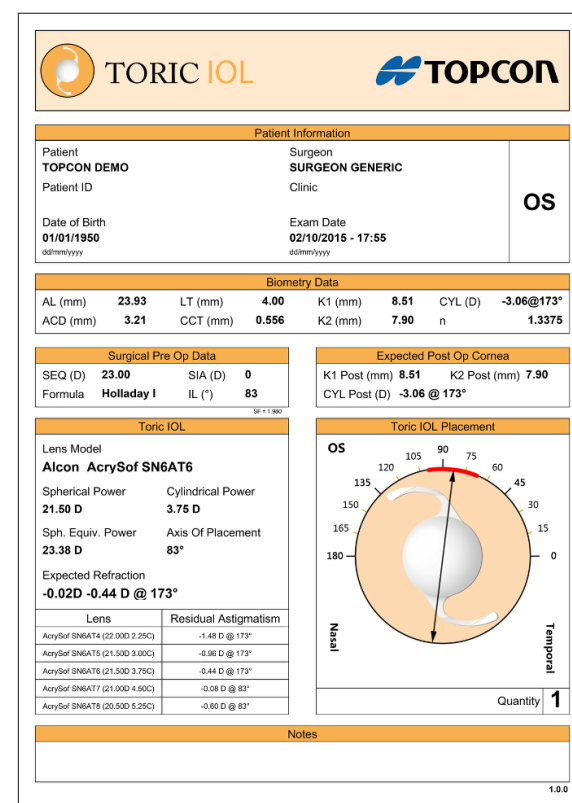
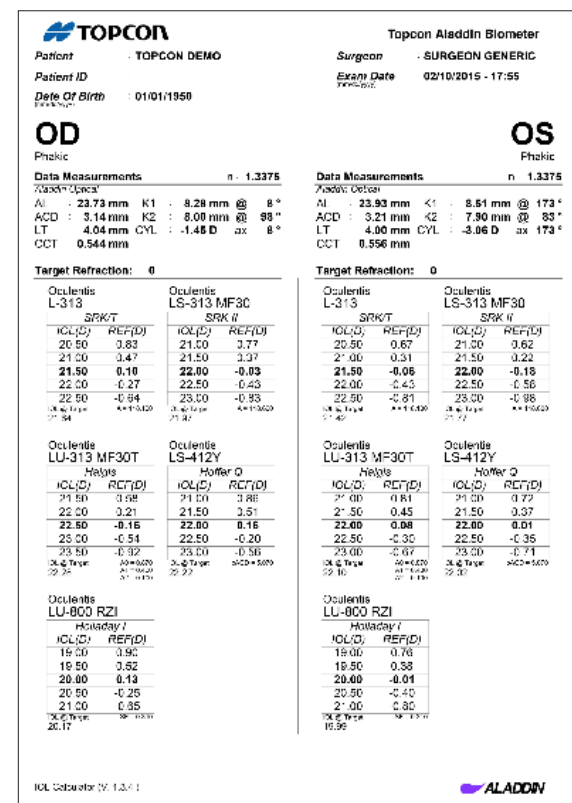
OPTICAL BIOMETRY CORNEAL TOPOGRAPHY IOL PLANNING

ALADDIN™ HW3.0 is a fast, multimodal biometry platform that captures the complete data needed to calculate IOL power and identify premium IOL candidates, supporting confident cataract planning and refractive screening in busy clinical workflows.

Integrated Measurements and Calculations for Confident IOL Selection

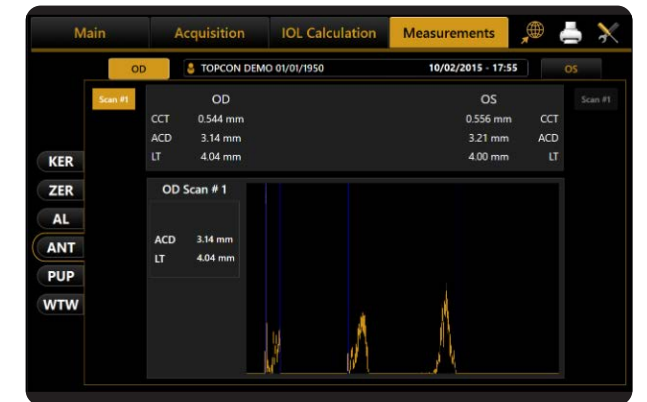
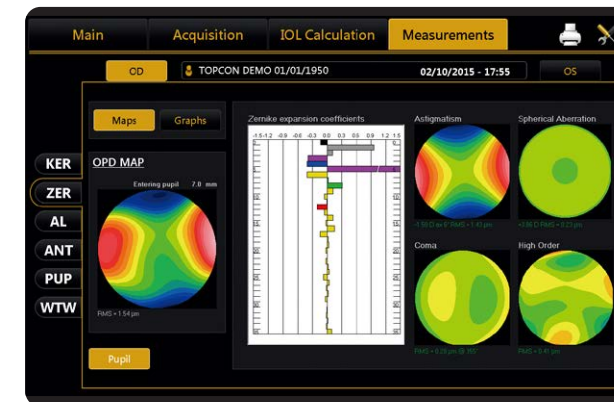


STRUCTURED REPORTS FOR PRECISE IOL PLANNING



Full Barrett® Suite onboard for spherical, toric, and post-refractive IOL calculations

Placido-based topography for detailed corneal curvature and astigmatism assessment



Anterior Aberrometry Analysis (Zernike) to evaluate visual quality and support premium IOL selection

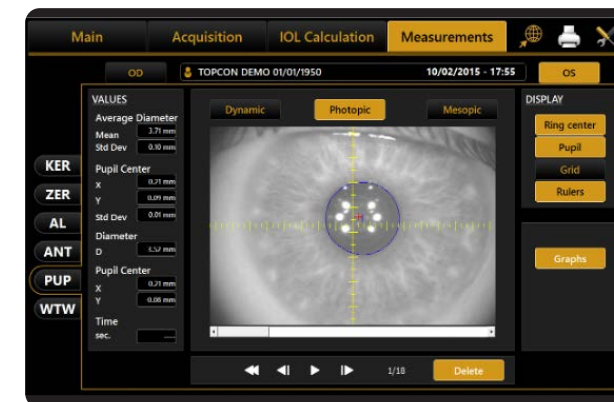
Interferometric technology with guided acquisition workflow for non-contact measurement and seamless capture of AL, CCT, ACD, and lens thickness

Full Biometry & Formula Comparison Report

- Consolidated biometric data in a structured OD/OS layout for easy comparison of multiple IOL formulas (e.g., Barrett)
- Customizable layouts aligned with surgeon preferences

Toric IOL Planning Report

- Toric optimization with axial alignment and residual astigmatism calculation using advanced formulas, including Barrett Toric
- Predicted postoperative refraction displayed alongside calculation results



Dynamic and static pupillometry to assess pupil size and responsiveness under different lighting conditions



Customizable IOL database with adjustable surgeon-specific presets

ALADDIN FEATURES

- Keratometry Topography
- Posterior & Anterior Biometry
- Extensive Spherical & Toric IOL Calculation Suite
- White-to-White Measurement
- Comprehensive Reports
- Dynamic, Photopic & Mesopic Pupillometry
- RX/AL Trends Module
- Anterior Aberrometry Analysis (Zernike)

TECHNICAL SPECIFICATIONS

MEASUREMENT RANGE FOR IOL

Axial Length (Interferometry)	Super luminescent diode 850nm, 15 mm - 38 mm
Corneal Radii	5.00mm - 12.00mm / 28.00D - 67.50D
ACD Measurement	Interferometer 1.5mm - 6.5mm
White-to-White Measurement	8.00mm - 14.00mm
Pupillometry	Dynamic, Photopic & Mesopic, pupil size 0.5mm - 10mm
Lens Thickness (interferometry)	0.5mm - 6.5mm
CCT Measurement (interferometry)	0.300mm - 0.800mm

ON-BOARD CALCULATION FORMULAS

IOL formulas Post Refractive	Haigis, Hoffer Q, Holladay 1, SRK*II, SRK*T, Barrett, Universal II, Olsen
IOL formulas	Camellin Calossi and Shammas No History, Barrett True K, Barrett Rx

PLACIDO TOPOGRAPHY

Keratoscopic Cone	24 rings on a 43 dpt sphere, working distance 80mm
Points Analyzed	Over 100,000
Points Measured	6,144
Cornea Coverage	Up to Ø 9.8mm (on a 8mm sphere) 42.2D with N=1.3375
Guided Focus System	Yes

APEX KERATOMETRY (AK)

Apical Curvature	Yes
Apical Gradient of Curvature	Yes
Symmetry index	Yes

SOFTWARE FEATURES

Toric IOL Calculator	Generic Toric IOL, Barrett Toric calculator, Olsen Toric
Zernike Analysis	Pupil size 2.5mm - 7.5mm
Print To	USB printer, Network printer, PDF to shared network folder, PDF to USB drive

INSTRUMENT SPECIFICATIONS

Display	10.1" touch screen
Storage	320 GB HDD + 32 GB SSD
Operating System	Windows 10 Embedded OS
Processor	Intel® Celeron®
Internal Memory	4GB RAM
Power Input	AC 100 - 240V 50/60 Hz
Dimensions	320mm (W) x 490mm (H) x 470mm (L)
Weight	18 kg
Connections	LAN integrated, 2x USB
Supports	USB Barcode scanner, External USB keyboard / mouse
Marking	CE, ETL

REPORTS

Aladdin Report	Yes
Measurement Overview	Yes
Pupillometry	Yes
IOL	Yes
Generic Toric IOL	Yes

CATARACT PLANNING WORKFLOW

ALADDIN supports DICOM connectivity for standardized data exchange and archiving. Paired with the KR-800S, it enables continuity across the cataract workflow, from pre-operative diagnostics to surgical planning and post-operative evaluation.



KR-800S
Auto Kerato-Refractometer

PRE-OPERATIVE

- Spherical subjective refraction
- Glare testing
- Contrast testing
- Distance and near VAs with and without correction



ALADDIN
Optical Biometer

IOL PLANNING

- Axial length measurements
- Topography
- Pupillometry
- Zernike analysis
- IOL calculation



CATARACT SURGERY



KR-800S
Auto Kerato-Refractometer

POST-OPERATIVE

- Spherical subjective refraction
- Post-operative VA testing

IMPORTANT

Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Medical device MDR Class IIa. Manufacturer: VISIA imaging S.r.l.