

# Aladdin

Combination optical biometer and corneal topographer



# Mastering IOL Selection: Expert Tools, Informed Decisions

The Aladdin is an easy-to-use, combination optical biometer and corneal topographer. 9-in-1 features include optical coherence biometry, Placido topography, wavefront analysis of the cornea, IOL calculation suite, pupillometry, DICOM connectivity and the RX/AL Trends Module.



## Overview



**Keratometry,  
Topography**



**Keratoconus  
Screening\***



**Aberrometry  
Analysis (Zernike)**



**White to White  
Measurement**



**Axial length  
measurement**



**Dynamic  
pupillometry**



**IOL & Toric IOL  
Calculation**



**Comprehensive  
Reports**



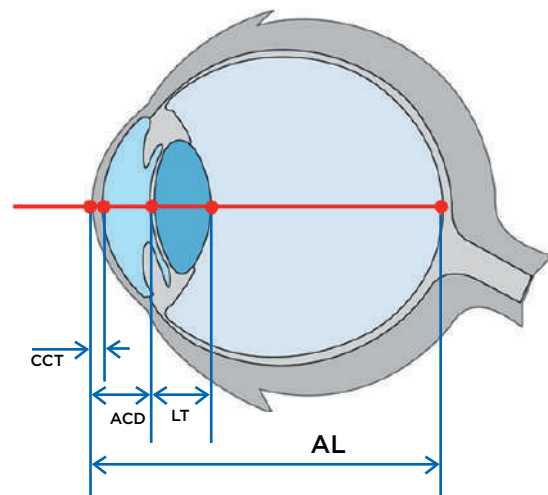
**RX/AL Trends  
Module**

## Posterior & Anterior interferometry

Biometry results are complemented with anterior topography, Zernike analysis and pupillometry in one fast, accurate and easy acquisition.

The Interferometer of ALADDIN also provides anterior measurements such as the Central Corneal Thickness (CCT), Anterior Chamber Depth (ACD) and Lens Thickness. You get the complete picture for your cataract surgeries. Whether you are performing standard cataract surgery or premium IOL implantation, you will be screening for corneal aberrations, keratoconus\* and previous corneal refractive surgery procedures all at once.

The ALADDIN only requires just one acquisition.



## Keratometry / Topography

Corneal topography provides much more information than just K-values. Not only the power, but also the shape of the corneal astigmatism can be easily detected with topography maps, facilitating your decision on toric IOL implantation. The keratometry provided by the placido rings of ALADDIN is extremely accurate due to simultaneous use of the interferometer.

- Axial and tangential map
- Absolute and normalized scale
- Millimeters or diopters
- Grid, rings, and 3, 5 and 7 mm zones

## Keratoconus screening\*

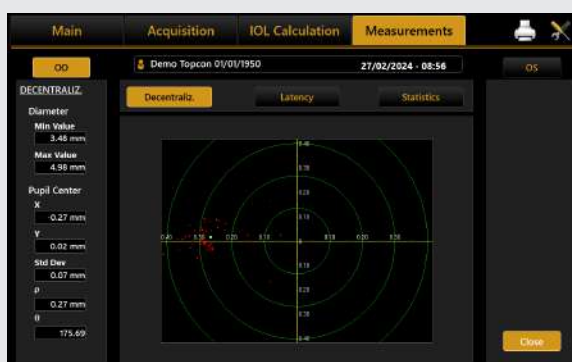
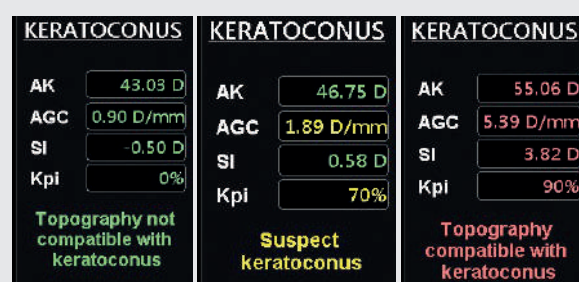
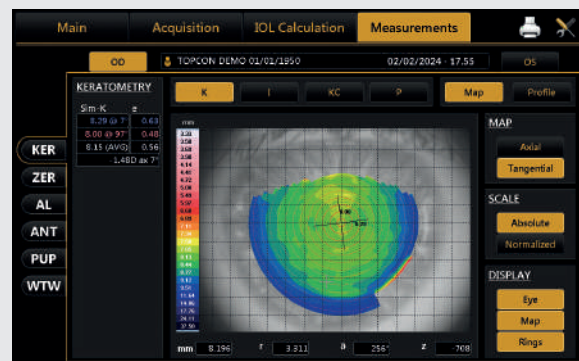
The Aladdin is capable of screening the anterior corneal surface for keratoconus. The Keratoconus Probability Index is shown in percentage as well as in colour codes. This information assist surgeons in deciding the best IOL type for the patient.

- Green Not compatible with Keratoconus
- Yellow Suspected Keratoconus
- Red Compatible with Keratoconus

## Dynamic Pupillometry

Aladdin provides different light conditions to measure the pupil size during dynamic pupillometry. This information is very important while evaluating candidates for multifocal IOLs or refractive surgery. For any refractive procedure, it is vitally important to diagnose the pupil very carefully in different light conditions, and exclude cases of extreme small or decentered pupils.

- Dynamic
- Photopic
- Mesopic

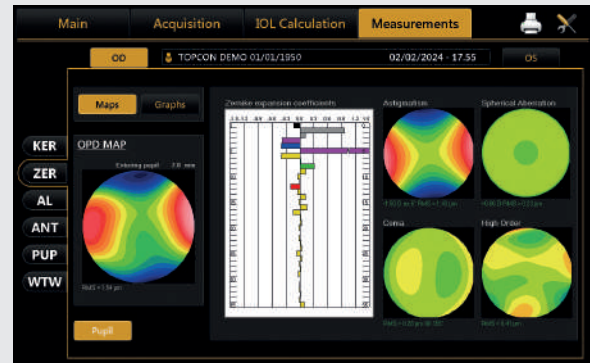


\* Not available in the US.



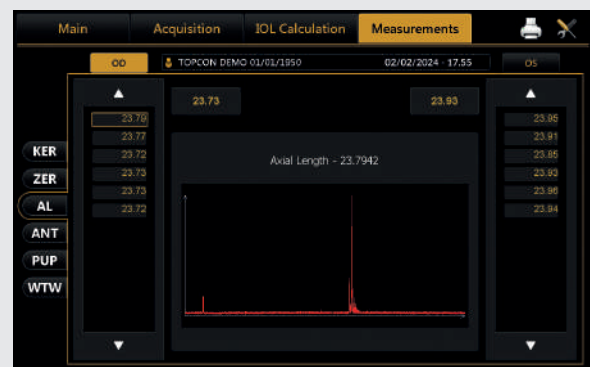
## Aberrometry analysis (Zernike)

Zernike analysis of the topographic data provides the Optical Path Difference (OPD) and information on astigmatism, spherical aberrations, higher order aberrations and Coma for pupil sizes of 2.5mm to 7.0mm



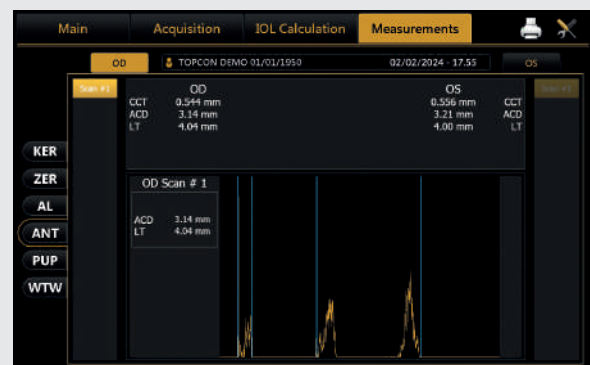
## Axial length

Using a low-coherence interferometry system with a superluminescent diode of 830 nm and signal processing, the ALADDIN achieves Axial length measurement with high signal-to-noise ratio. Axial length measurements can be done on phakic eyes as well as on aphakic, pseudoaphakic and silicone oil-filled eyes.



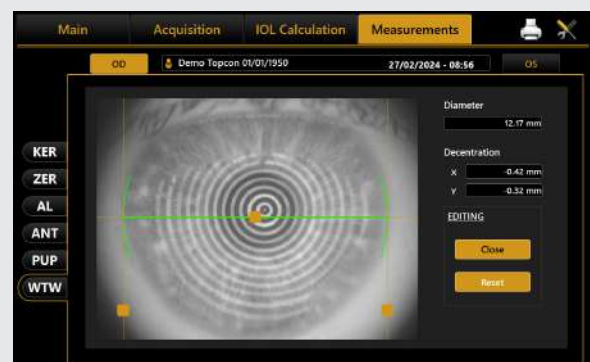
## Anterior biometry

Anterior biometry with the ALADDIN allows measuring the Central Corneal Thickness, Anterior Chamber Depth and the crystalline Lens Thickness. The resulting interferometry measurements are presented graphically for clear visualization.

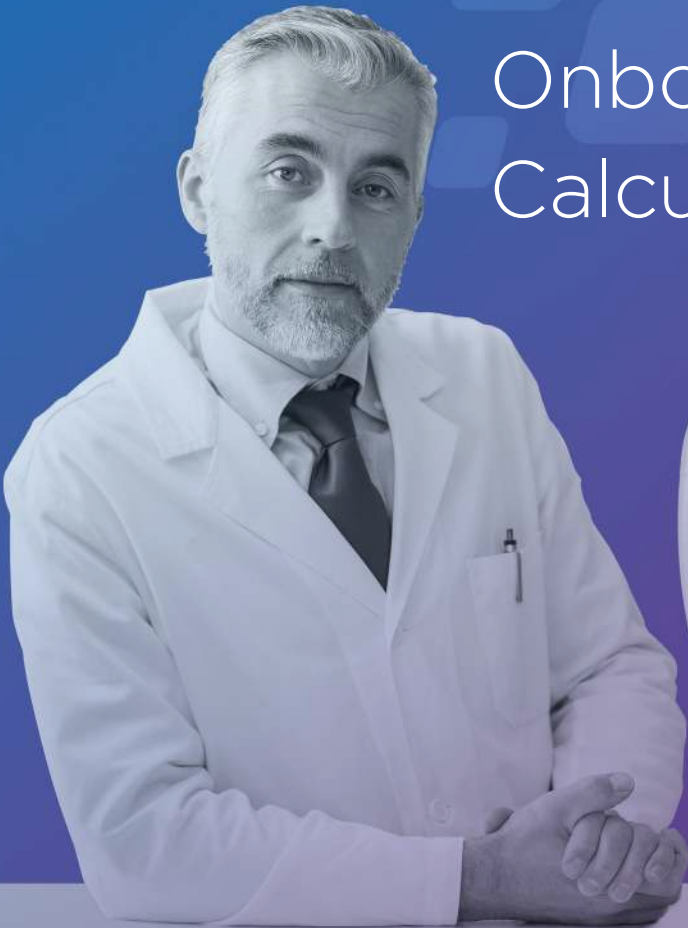


## White to white

ALADDIN automatically calculates the white-to-white measurement, which can be edited manually if necessary. This precise measurement is particularly valuable for the placement of anterior chamber intraocular lenses and sulcus fixated posterior chamber intraocular lenses, especially in highly myopic eyes, ensuring reliable outcomes.



# Onboard Barrett IOL Calculation Suite



## On-board calculation formulas

### IOL formulas

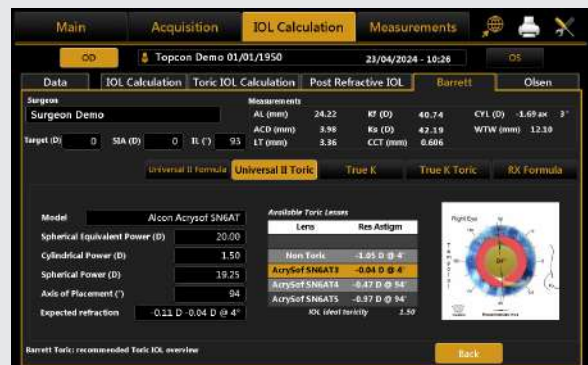
Haigis, Hoffer Q, Holladay 1, SRK®II, SRK®T, Barrett Universal II, Olsen

### Post-refractive Surgery IOL formulas

Camellin Calossi and Shammas No History, Barrett True K, Barrett Rx

## Onboard Barrett IOL Calculation Suite

Dr. Graham D. Barrett developed his own formula in 2013. The Barrett Universal II formula is unique, as it predicts the posterior corneal curve without the need of actually measuring it.



The Aladdin's Barrett IOL Calculation Suite includes:

- Barrett Universal II
- Barrett Toric
- Barrett True K
- Barrett Rx

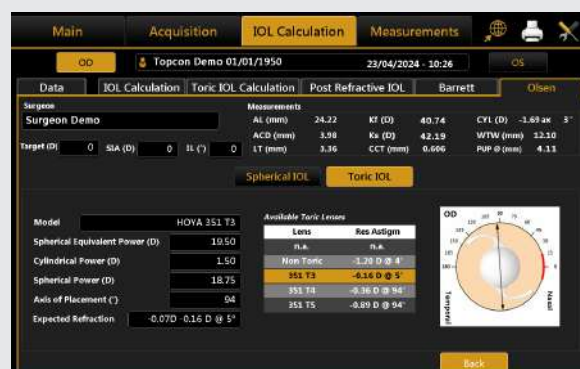
# The Aladdin HW3.0

## Onboard Olsen Formula

The Aladdin features the Olsen IOL calculation formula. It utilizes the C-constant, together with many biometric measurements of the eye to predict the effective lens position.

## Abulafia-Koch astigmatism cylinder correction for Toric IOL calculations incorporated

The Abulafia-Koch correction formula calculates the estimated total corneal astigmatism based on standard keratometry measurements.



Olsen Formula





Topcon Europe Medical bv

Patient : TOPCON DEMO

Surgeon : Surgeon Generic

Patient ID :

Exam Date : 03/12/2024 - 16:35

Date Of Birth : 01/01/1950  
(mm/dd/yyyy)

(mm/dd/yyyy)

**OD**

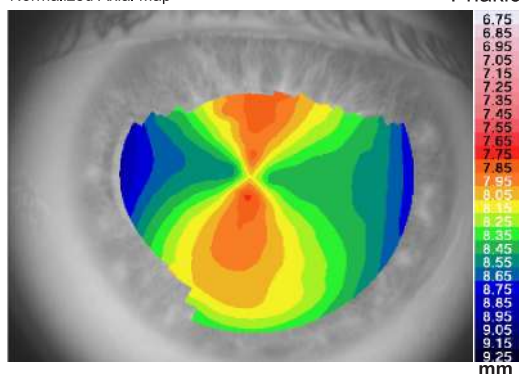
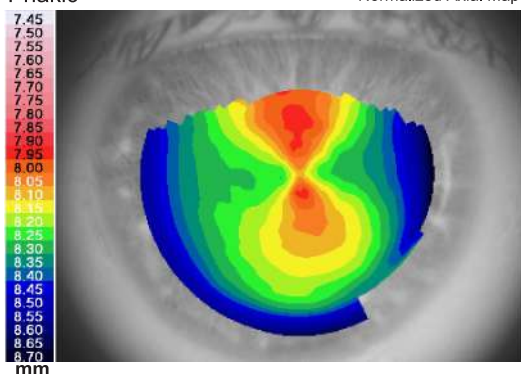
**OS**

Phakic

Normalized Axial Map

Normalized Axial Map

Phakic



**Measurement Summary**

AL	23.73 mm	K1	8.28 mm@	8 °	AL	23.93 mm	K1	8.51 mm@	173 °
ACD	3.14 mm	K2	8.00 mm@	98 °	ACD	3.21 mm	K2	7.90 mm@	83 °
LT	4.04 mm	CCT	0.544 mm		LT	4.00 mm	CCT	0.556 mm	
WtoW	11.70 mm	Dec	(-0.22, -0.29)		WtoW	11.92 mm	Dec	(0.40, -0.07)	

**Keratorefractive Indices**

CYL 3 mm CYL 5 mm	<b>-1.44 D</b> <b>-1.46 D</b>	Ax: 7° Ax: 8°		CYL 3 mm CYL 5 mm	<b>-3.18 D</b> <b>-3.16 D</b>	Ax: 172° Ax: 172°	
SD <b>0.36 D</b>	SAI <b>0.47 D</b>	e <b>0.49</b>		Kc <b>41.61</b>	SD <b>0.44 D</b>	SAI <b>0.55 D</b>	e <b>0.39</b>

**Keratoconus Screening**

AK	AGC	SI	p	AK	AGC	SI	p
43.03 D	0.90 D/mm	-0.50 D	0%	43.46 D	0.68 D/mm	-0.40 D	0%

**Pupil Data**

Photo: Diam	3.95 mm	Dec	0.35 mm; 168°	Photo: Diam	4.24 mm	Dec	0.21 mm; 343°
Meso: Diam	4.11 mm	Dec	0.32 mm; 187°	Meso: Diam	4.45 mm	Dec	

**Zernike Analysis 5 mm**

<b>OPD</b>	<b>Coma</b>	<b>Sph. Ab.</b>	<b>OPD</b>	<b>Coma</b>	<b>Sph. Ab.</b>
rms: 0.80 µm	rms: 0.15 µm	rms: 0.10 µm	rms: 1.43 µm	rms: 0.07 µm	rms: 0.14 µm



# Report Samples



Patient : TOPCON DEMO  
Patient ID : Demo  
Date Of Birth : 01/01/1950  
(dd/mm/yyyy)

**OD**  
Phakic

Data Measurements n : 1.3375  
Aladdin Optical  
AL : 23.73mm K1 : 40.74D @ 8°  
ACD : 3.14mm K2 : 42.19D @ 98°  
LT : 4.04mm CYL : -1.45D ax 8°  
CCT : 0.544mm AvgK : 41.47D  
WTW : 11.69mm

Target Refraction: 0

Teleon  
AN6V

Haigis	
IOL(D)	REF(D)
23.00	0.58
23.50	0.23
<b>24.00</b>	<b>-0.12</b>
24.50	-0.48
25.00	-0.84

IOL @ Target A0 = 1.625  
23.83 A1 = 0.400  
A2 = 0.100

Teleon  
LS-313 MF15

Hoffer Q	
IOL(D)	REF(D)
21.50	0.62
22.00	0.27
<b>22.50</b>	<b>-0.08</b>
23.00	-0.44
23.50	-0.80

IOL @ Target pACD = 5.152  
22.38

Teleon  
LS-313 MF20

Holladay I	
IOL(D)	REF(D)
21.50	0.71
22.00	0.36
<b>22.50</b>	<b>0.01</b>
23.00	-0.35
23.50	-0.71

IOL @ Target SF = 1.569  
22.51

Teleon  
LS-313 MF20

Barrett Universal II	
IOL(D)	REF(D)
21.50	0.62
22.00	0.25
<b>22.50</b>	<b>-0.13</b>
23.00	-0.50
23.50	-0.89

IOL @ Target LF = 1.707  
22.33 A = 118.660

Teleon  
LS-313 MF20

SRK/T	
IOL(D)	REF(D)
21.50	0.59
22.00	0.23
<b>22.50</b>	<b>-0.13</b>
23.00	-0.49
23.50	-0.86

IOL @ Target A = 118.663  
22.32

Topcon Europe Medical bv

Surgeon : SURGEON GENERIC  
Exam Date : 27/02/2024 - 10:23  
(dd/mm/yyyy)

**OS**  
Phakic

Data Measurements n : 1.3375  
Aladdin Optical  
AL : 23.93mm K1 : 39.64D @ 173°  
ACD : 3.21mm K2 : 42.71D @ 83°  
LT : 4.00mm CYL : -3.06D ax 173°  
CCT : 0.556mm AvgK : 41.17D  
WTW : 11.98mm

Target Refraction: 0

Bausch + Lomb  
AO1UV

Holladay I	
IOL(D)	REF(D)
22.00	0.59
22.50	0.24
<b>23.00</b>	<b>-0.11</b>
23.50	-0.46
24.00	-0.81

IOL @ Target SF = 1.850  
22.85

Bausch + Lomb  
MX60E

Haigis	
IOL(D)	REF(D)
22.50	0.55
23.00	0.20
<b>23.50</b>	<b>-0.16</b>
24.00	-0.52
24.50	-0.88

IOL @ Target A0 = 1.460  
23.28 A1 = 0.400  
A2 = 0.100

Bausch + Lomb  
LI61AO

Hoffer Q	
IOL(D)	REF(D)
21.50	0.81
22.00	0.47
<b>22.50</b>	<b>0.13</b>
23.00	-0.22
23.50	-0.58

IOL @ Target pACD = 5.400  
22.68

Bausch + Lomb  
IC-8 Aphera

Barrett Universal II	
IOL(D)	REF(D)
22.50	0.83
23.00	0.48
<b>23.50</b>	<b>0.13</b>
24.00	-0.22
24.50	-0.58

IOL @ Target LF = 2.486  
23.69 A = 120.150

Bausch + Lomb  
IC-8 Aphera

SRK/T	
IOL(D)	REF(D)
23.00	0.67
23.50	0.34
<b>24.00</b>	<b>0.01</b>
24.50	-0.33
25.00	-0.67

IOL @ Target A = 120.150  
24.01

# IOL & Toric IOL Calculation

The ALADDIN guides you through the choice of the right IOL for each patient. A combination of IOL brand, type and formulae can be viewed and compared in order to obtain the best post-operative visual acuity result for the patient.

A pre-defined IOL selection can be programmed for each surgeon. When implanting a toric IOL, specific software assists you in calculating the best option. This integrated toric IOL calculator saves you time and avoids unnecessary mistakes when manually entering data online. IOL Toric Rotation Simulation Software calculates the induced spherical and cylindrical power for every five degrees toric IOL rotation.

The screenshot shows the 'IOL Calculation' tab selected. It includes a 'Data' section with 'Surgeon' (Generic), 'Target (D)' (0), and 'IOL (D)' (21.50). The 'Measurements' section displays AL (mm), K1 (mm), K2 (mm), CYL (D), ACD (mm), Ks (mm), and WTW (mm). The 'Post Refractive IOL' section shows 'Barrett' and 'Olsen' formulas. The 'IOL (D)' section displays a table of IOL values for different formulas.

IOL (D)	REF (D)	IOL (D)	REF (D)	IOL (D)	REF (D)	IOL (D)	REF (D)	IOL (D)	REF (D)
21.50	0.56	21.00	0.67	22.00	0.79	21.00	0.80	21.50	0.58
22.00	0.21	21.50	0.30	22.50	0.43	21.50	0.45	22.00	0.22
22.50	-0.14	22.00	-0.08	23.00	0.07	22.00	0.09	22.50	-0.13
23.00	-0.50	22.50	-0.46	23.50	-0.38	22.50	-0.28	23.00	-0.49
23.50	-0.87	23.00	-0.84	24.00	-0.67	23.00	-0.64	23.50	-0.86

The screenshot shows the 'Universal II Toric' formula selected. It includes a 'Data' section with 'Surgeon' (Generic), 'Target (D)' (0), and 'IOL (D)' (21.50). The 'Measurements' section displays AL (mm), K1 (mm), K2 (mm), CYL (D), ACD (mm), Ks (mm), and WTW (mm). The 'Post Refractive IOL' section shows 'Barrett' and 'Olsen' formulas. The 'IOL (D)' section displays a table of IOL values for different formulas.

IOL (D)	REF (D)	IOL (D)	REF (D)	IOL (D)	REF (D)	IOL (D)	REF (D)	IOL (D)	REF (D)
21.50	0.56	21.00	0.67	22.00	0.79	21.00	0.80	21.50	0.58
22.00	0.21	21.50	0.30	22.50	0.43	21.50	0.45	22.00	0.22
22.50	-0.14	22.00	-0.08	23.00	0.07	22.00	0.09	22.50	-0.13
23.00	-0.50	22.50	-0.46	23.50	-0.38	22.50	-0.28	23.00	-0.49
23.50	-0.87	23.00	-0.84	24.00	-0.67	23.00	-0.64	23.50	-0.86

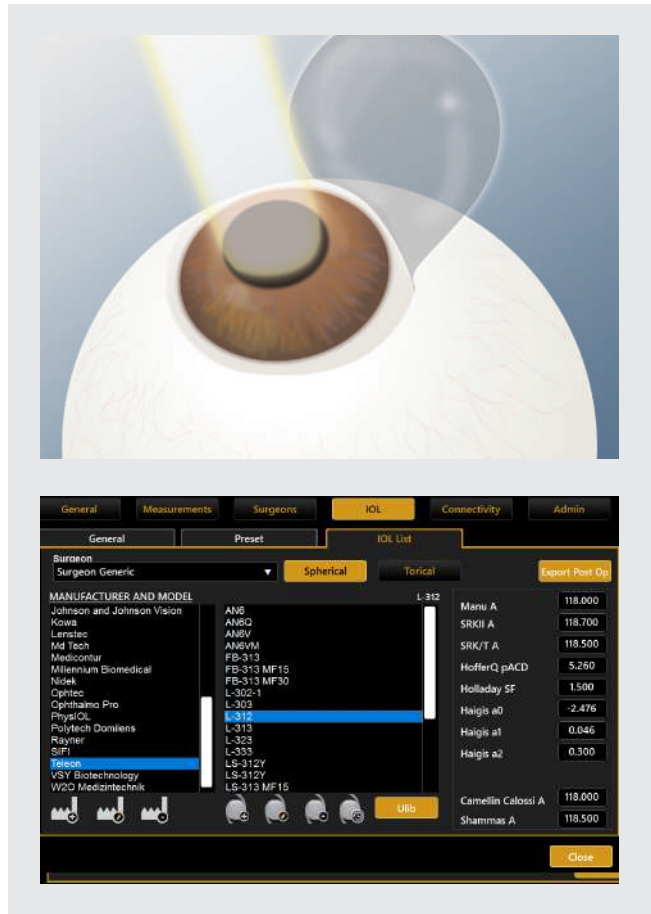
# IOL & Toric IOL Calculation

## Post-refractive IOL

In eyes that have previously undergone refractive surgery such as LASIK and PRK, spherical aberrations are often outside the standard values. Aladdin's on board Barrett True-K, True-K Toric, Camellin-Calossi and Shammas No-history formulae provide the tools for post-refractive IOL calculations.

## Customisable IOL database

The ALADDIN provides a IOL database which can be upgraded and customised. You can manually customize the A- constant for each IOL to obtain even a higher accuracy every time you perform cataract surgery. Your favourite IOLs can be pre-defined and programmed for each individual surgeon, simplifying and personalising IOL selection.





# TORIC IOL



## Patient Information

Patient <b>TOPCON DEMO</b>	Surgeon <b>SURGEON GENERIC</b>	<b>OS</b>
Patient ID	Clinic <b>Topcon Europe Medical bv</b>	
Date of Birth <b>01/01/1950</b>	Exam Date <b>03/10/2023 - 14:25</b>	
dd/mm/yyyy	dd/mm/yyyy	

## Biometry Data

AL (mm)	<b>23.93</b>	LT (mm)	<b>4.00</b>	K1 (mm)	<b>8.51</b>	CYL (D)	<b>-3.06@173°</b>
ACD (mm)	<b>3.21</b>	CCT (mm)	<b>0.556</b>	K2 (mm)	<b>7.90</b>	n	<b>1.3375</b>

## Surgical Pre Op Data

SEQ (D)	<b>23.00</b>	SIA (D)	<b>0</b>
Formula	<b>Holladay I</b>	IL (°)	<b>83</b>

SF = 1.980

## Expected Post Op Cornea

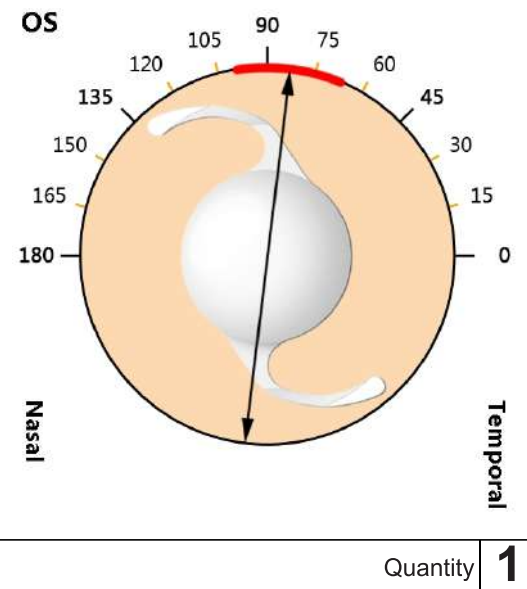
K1 Post (mm)	<b>8.51</b>	K2 Post (mm)	<b>7.90</b>
CYL Post (D)	<b>-3.06 @ 173°</b>		

## Toric IOL

Lens Model <b>Alcon AcrySof SN6AT6</b>	
Spherical Power <b>21.50 D</b>	Cylindrical Power <b>3.75 D</b>
Sph. Equiv. Power <b>23.38 D</b>	Axis Of Placement <b>83°</b>
Expected Refraction <b>-0.02D -0.44 D @ 173°</b>	

Lens	Residual Astigmatism
AcrySof SN6AT4 (22.00D 2.25C)	-1.48 D @ 173°
AcrySof SN6AT5 (21.50D 3.00C)	-0.96 D @ 173°
AcrySof SN6AT6 (21.50D 3.75C)	-0.44 D @ 173°
AcrySof SN6AT7 (21.00D 4.50C)	-0.08 D @ 83°
AcrySof SN6AT8 (20.50D 5.25C)	-0.60 D @ 83°

## Toric IOL Placement



## Notes



# Report Samples



Topcon Europe Medical bv

Patient : TOPCON DEMO

Surgeon : Surgeon Generic

Patient ID :

Exam Date : 03/16/2024 - 10:45  
(mm/dd/yyyy)

Date Of Birth : 01/01/1950  
(mm/dd/yyyy)

## Dynamic Pupillography

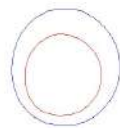
OD

Diameter (mm)

Min	Max
3.48	4.98

Center (mm)

Mean	Std Dev
x= -0.27 y= 0.02	0.07



OS

Diameter (mm)

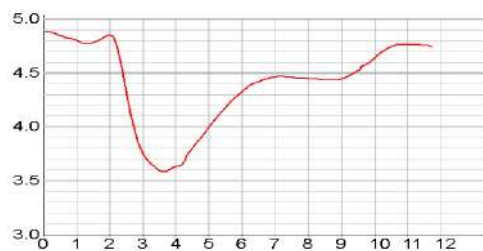
Min	Max
3.27	4.78

Center (mm)

Mean	Std Dev
x= 0.25 y= -0.04	0.08



## Latency



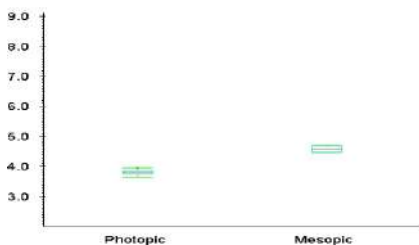
## Static Pupillography

Diameter (mm)

	Mesopic	Photopic
Mean	4.57	3.80
Std Dev	0.09	0.09

Center (mm)

	Mesopic	Photopic
X	-0.33	-0.27
Y	0.04	-0.01

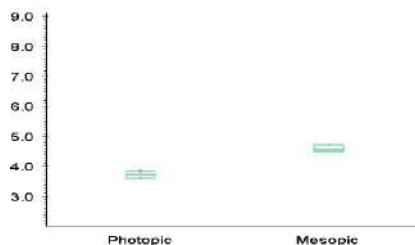


Diameter (mm)

	Mesopic	Photopic
Mean	4.60	3.71
Std Dev	0.09	0.10

Center (mm)

	Mesopic	Photopic
X	0.25	0.21
Y	-0.15	-0.09



# Report Samples



Topcon Europe Medical bv

Patient : TOPCON DEMO

Surgeon : Surgeon Generic

Patient ID :

Exam Date : 03/22/2024 - 10:35  
(mm/dd/yyyy)

Date Of Birth : 01/01/1950  
(mm/dd/yyyy)

**OD**

Phakic

**OS**

Phakic

## Axial length values

Comp. AL: 23.73 mm		Comp. AL: 23.93 mm	
AL	AL	AL	AL
23.79 mm		23.95 mm	
23.77 mm		23.91 mm	
23.72 mm		23.85 mm	
23.73 mm		23.93 mm	
23.73 mm		23.96 mm	
23.72 mm		23.94 mm	

## Value Corneal Curvature

KER: 8.28/8.00 mm CYL: -1.45 D Ax 8°		KER: 8.51/7.90 mm CYL: -3.06 D Ax 173°	
K1: 8.28 mm @ 8°	40.74 D	K1: 8.51 mm @ 173°	39.64 D
K2: 8.00 mm @ 98°	42.19 D	K2: 7.90 mm @ 83°	42.71 D
CYL: -1.45 D ax 8°		CYL: -3.06 D ax 173°	

## ACD value

ACD: 3.14 mm				ACD: 3.21 mm			
3.14 mm				3.21 mm			

## LT value

LT: 4.04 mm				LT: 4.00 mm			
4.04 mm				4.00 mm			

## CCT value

CCT: 0.544 mm				CCT: 0.556 mm			
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## White to White

WTW 11.70 mm Dec (-0.22 mm, -0.29 mm)				WTW 11.92 mm Dec (0.40 mm, -0.07 mm)			
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# Topcon's Cataract Workstation

## Cataract surgery quality control

Visual acuity (VA) is the best parameter to measure refractive success after cataract surgery. Topcon's KR-800S Auto Kerato- Refractometer can measure VA in a standardized and systematic way, both pre- and post-surgery. With unique features "Glare" and "Contrast" tests, KR-800S also assists you evaluating the progression of cataract, as well as distinct nuclear from cortical cataract.

## VA Simulation Premium IOL

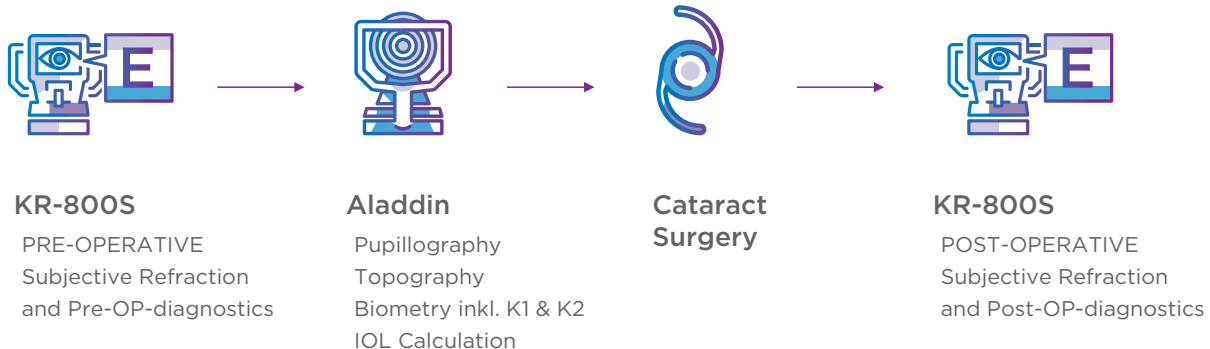
KR-800S offers a Spherical Equivalent mode which can simulate the benefits of a premium

(toric) IOL, to educate the patient on the advantages of a better post-operative VA.

The subjective VA test for near will assist the patient in considering a Multifocal IOL.

## Cataract workstation

The KR-800S completes the screening workflow of cataract surgery. All necessary cataract pre-op information can be obtained by KR-800S and ALADDIN, while the KR-800S assist you post-op in Visual Acuity evaluation and the success of the cataract surgery. ALADDIN and KR-800S are the perfect combination for your cataract practice.



## Aladdin

Optical Biometry & Topography System

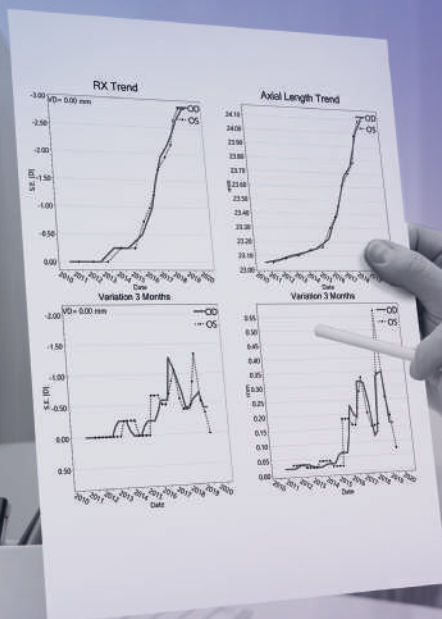


## KR-800S

Auto kerato refractometer with subjective function

# Are you focusing on refractive changes?

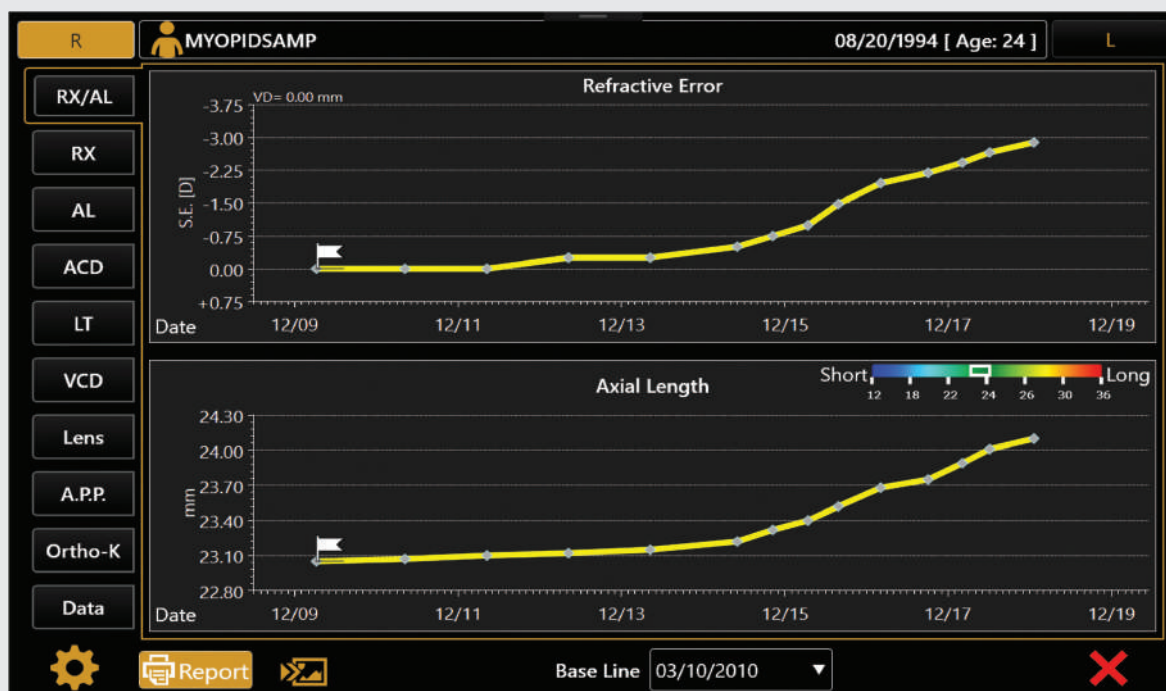
Experience the Aladdin RX/AL Trends Module:  
The precise tool to monitor longitudinal  
changes in the eye.





## RX/AL Trends Module

- Measures and displays trends in AL changes
- Allows you to monitor change progression
- Charts and tracks refractive variations
- Provides comprehensive printouts



### Trend Monitoring

By combining manually entered refractive information with biometric data obtained by low-coherence interferometry, the Aladdin provides a quantitative report of the progression of changes in the eye's refractive power.

After the refraction values are entered, the Aladdin provides a numerical analysis of the trends of the

eye parameters related to changes in the axial length, corneal curvature, anterior corneal wave front analysis and other dimensional variations. Changes can be followed in periods of 3, 6 and 12 months providing a trend that can be used to track the progression of certain eye conditions.

# Specifications of Aladdin

Measurement range for IOL		
Axial Length (Interferometry)	Super luminescent diode 830nm, 15mm - 38mm	
Corneal Radii	5.00mm - 12.00mm / 28.00D - 67.50D	
ACD measurement	Interferometer 1.5mm - 6.5mm	
WTW measurement	8.0mm- 14.0mm	
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	Haigis, Hoffer Q, Holladay 1, SRK*II, SRK*T, Barrett Universal II, Olsen	
Post-refractive Surgery IOL formulas	Camellin Calossi and Shammas No History, Barrett True K, Barrett Rx	
Placido Topography specifications		
Keratoscopic Cone (topographic map)	24 rings on a 43D sphere, working distance 80mm	
Points analysed	Over 100,000	
Points measured	Over 6,000	
Cornea coverage	up to Ø 9,8mm (on a 8mm sphere) 42.2D with N=1.3375	
Guided focus system	Yes	
Apex Keratometry		
Apical Curvature	Yes	
Apical Gradient of Curvature	Yes	
Symmetry index	Yes	
Kpi (Keratoconus probability index)	Yes*	
Software features		
Toric IOL calculator	Generic Toric IOL, Teleon Toric IOL	
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	At least 500GB	
Operating system	WINDOWS Embedded	
Processor	Intel®	
Internal memory	At least 4GB RAM	
Power input	AC 100-240V 50/60Hz	
Dimensions	320mm (W) x 490mm (H) x 470mm (L)	
Weight	18kg	
Connections	1 x LAN, 2 x 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	
Teleon Toric IOL	Yes	

\* Not available in the US.



**IMPORTANT** In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.  
Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.

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