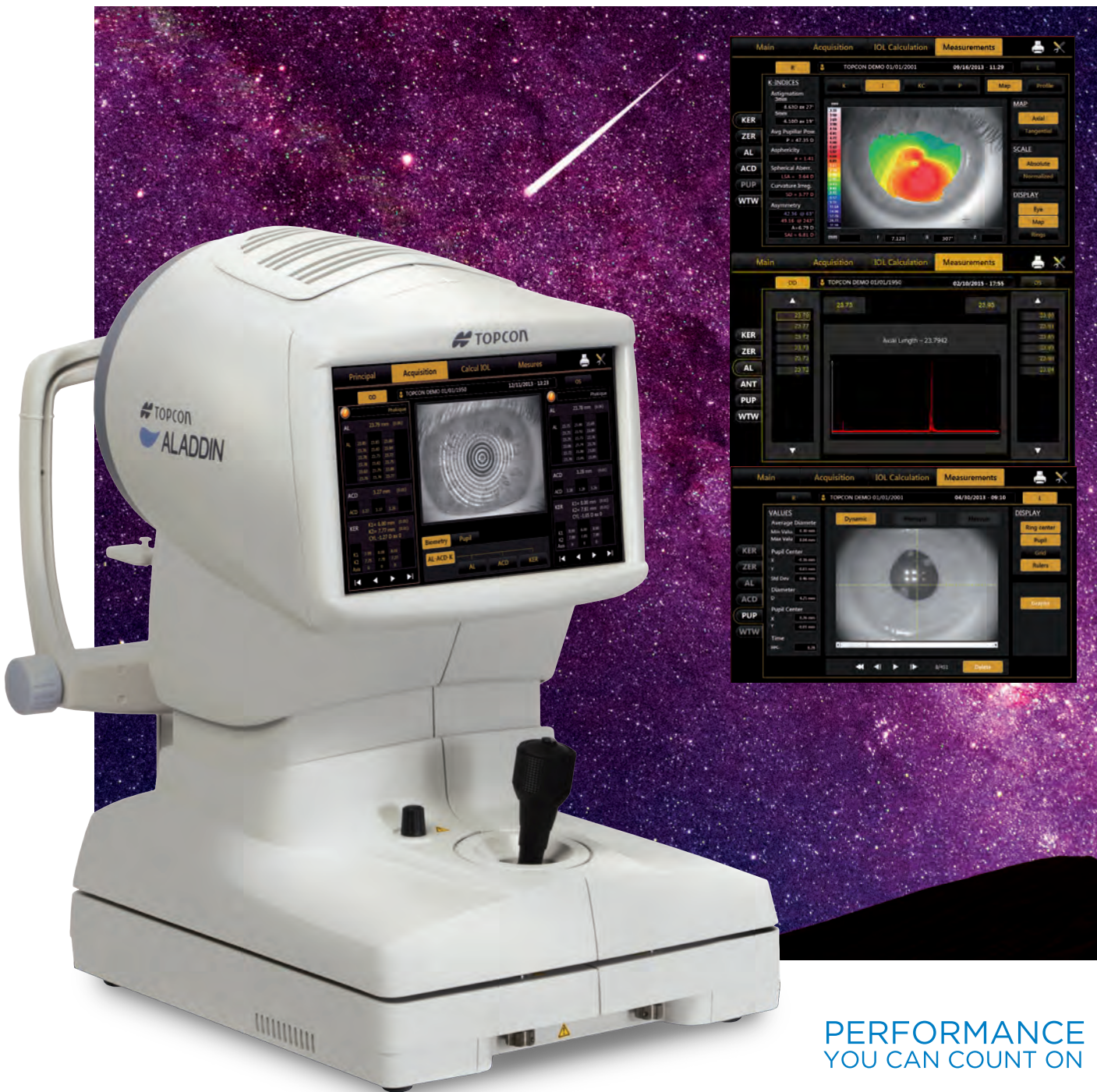


ALADDIN Series

Optical Biometry & Topography System



PERFORMANCE
YOU CAN COUNT ON

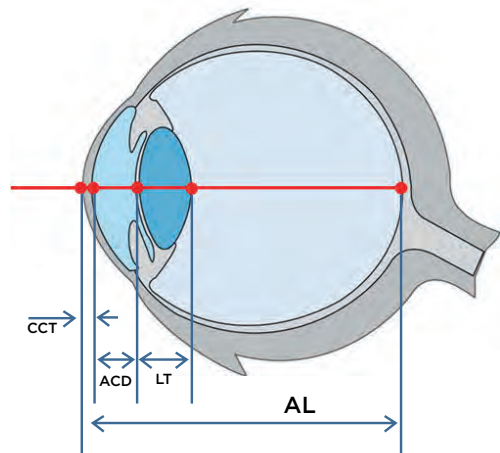


We let you see the complete picture

Today accurate IOL-power calculation is no longer enough. The final optical result and patient's satisfaction are paramount. By incorporating full corneal topography and wavefront analysis of the cornea the ALADDIN addresses the limitations of conventional biometers.

Topcon provides the complete picture with the new ALADDIN and ALADDIN LT (Lens Thickness). ALADDIN supports the surgeon not only in his/her choice of the spherical power of the IOL, but also assists in the choice of the right premium IOL for each individual eye.

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 (LT)*

You get the complete picture for all 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.

ALADDIN

addresses the limitations of conventional biometers

8 in 1

- 1 Axial length
- 2 Keratometry
- 3 Topography
- 4 Anterior Chamber Depth
- 5 Pupillometry
- 6 White to white
- 7 Central Corneal Thickness*
- 8 Lens Thickness*

ALADDIN fully featured

- » **Fully integrated patient database**
 - » Patient search function
 - » Input Post op data
- » **Easy acquisition 8 in 1**
 - » Pre Op input of lens and vitreous body
- » **Conventional IOL calculation formulas**
 - » SRK II, SRK/T, Hoffer Q, Holladay 1, Haigis
 - » Multiple surgeon pre-settings
 - » ULIB database compatible updates
 - » Customisable Database
- » **Post refractive IOL calculation formulas**
 - » Camellin-Calossi, Shammas (no history)
- » **Generic Toric IOL calculation***
 - » Toric IOL rotation simulator
 - » Dedicated Oculentis setting*
- » **Topography**
 - » Full featured corneal mapping
 - » Accurate corneal radii
 - » Keratoconus probability index*
- » **Corneal wavefront (Zernike) analysis**
 - » Selectable maps ranging (pupil size from 2,5 to 7.0 mm)
 - » Simulation graphs
- » **Interferometer graphs**
 - » Axial length
 - » Central corneal Thickness*
 - » Anterior chamber depth
 - » Lens Thickness
- » **Pupillometry**
 - » Dynamic, Photopic, Mesopic
 - » Decentralization and Latency graph
- » **White to white measurement**
- » **Reports**
 - » To USB, shared folder and printer
 - » Topography report
 - » IOL report
 - » Biometry report (AL, K, ACD, LT*, CCT* WTW)
 - » Pupillometry

* Available in ALADDIN LT only

PERFORMANCE
YOU CAN COUNT ON



The ALADDIN was developed with three key points in mind

Speed

Point and shoot acquisition, all necessary measurements are taken in under five seconds. Single measurement are supported for even faster ACD, AL or topography, as well as a separate full pupillometry.

Accuracy

Proven interferometry accuracy combined with new technology for keratometry, provide extremely accurate Axial Length and corneal radii information for precise calculation of IOL spherical and toric powers.

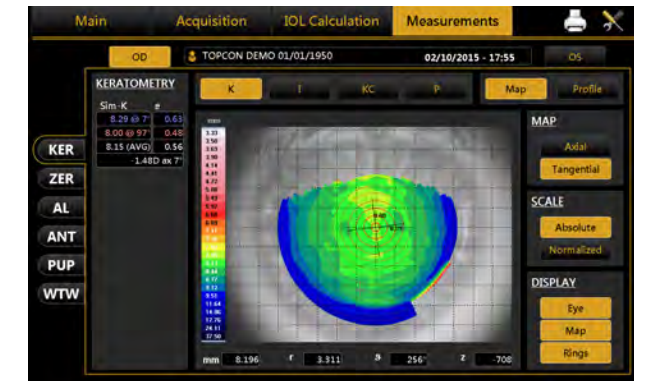
Ease of use

The operator is only three clicks away from printing the ALADDIN report. The 10.1 inch full colour touchscreen monitor is very responsive and comfortable to use. The user-friendly interface guides you through the main functions with ease.

Keratometry / Topography

Full Corneal topography provides much more information than just K-values. Specific data for toric IOL surgery, instantly detects regular and irregular astigmatism. 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	KERATOCONUS	KERATOCONUS
AK 43.03 D	AK 46.75 D	AK 55.06 D
AGC 0.90 D/mm	AGC 1.89 D/mm	AGC 5.39 D/mm
SI -0.50 D	SI 0.58 D	SI 3.82 D
Kpi 0%	Kpi 70%	Kpi 90%
Topography not compatible with keratoconus	Suspect keratoconus	Topography compatible with keratoconus

Keratoconus screening

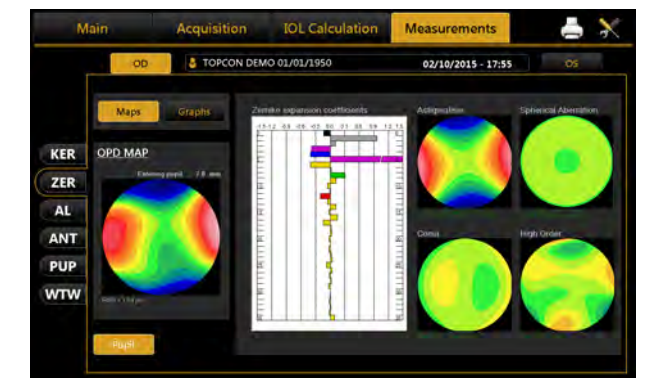
The ALADDIN is capable to screen the corneal surface for keratoconus probability. This information provides the surgeon in detail the corneal keratometric indices to assist in making the correct toric IOL selection. The Keratoconus Probability Index is shown in percentage* as well as in colour codes.

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

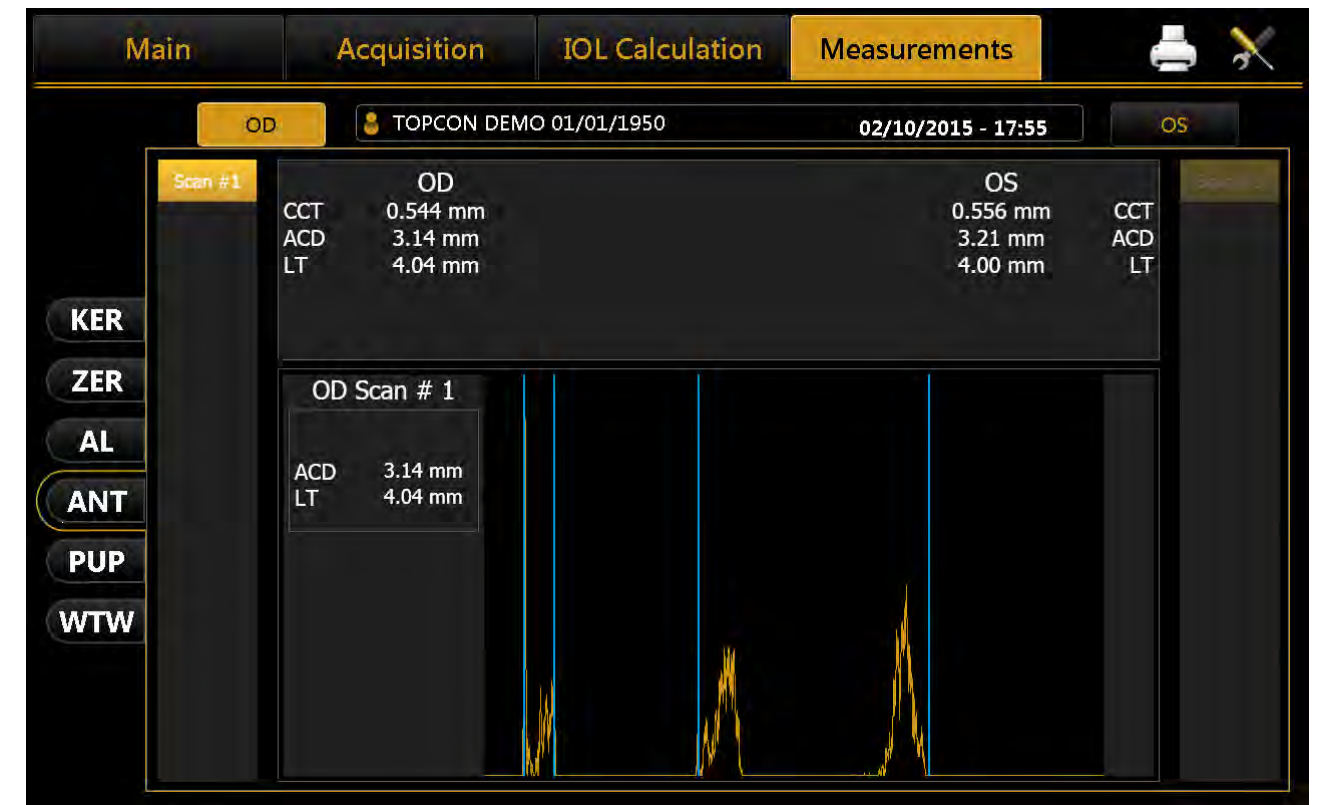
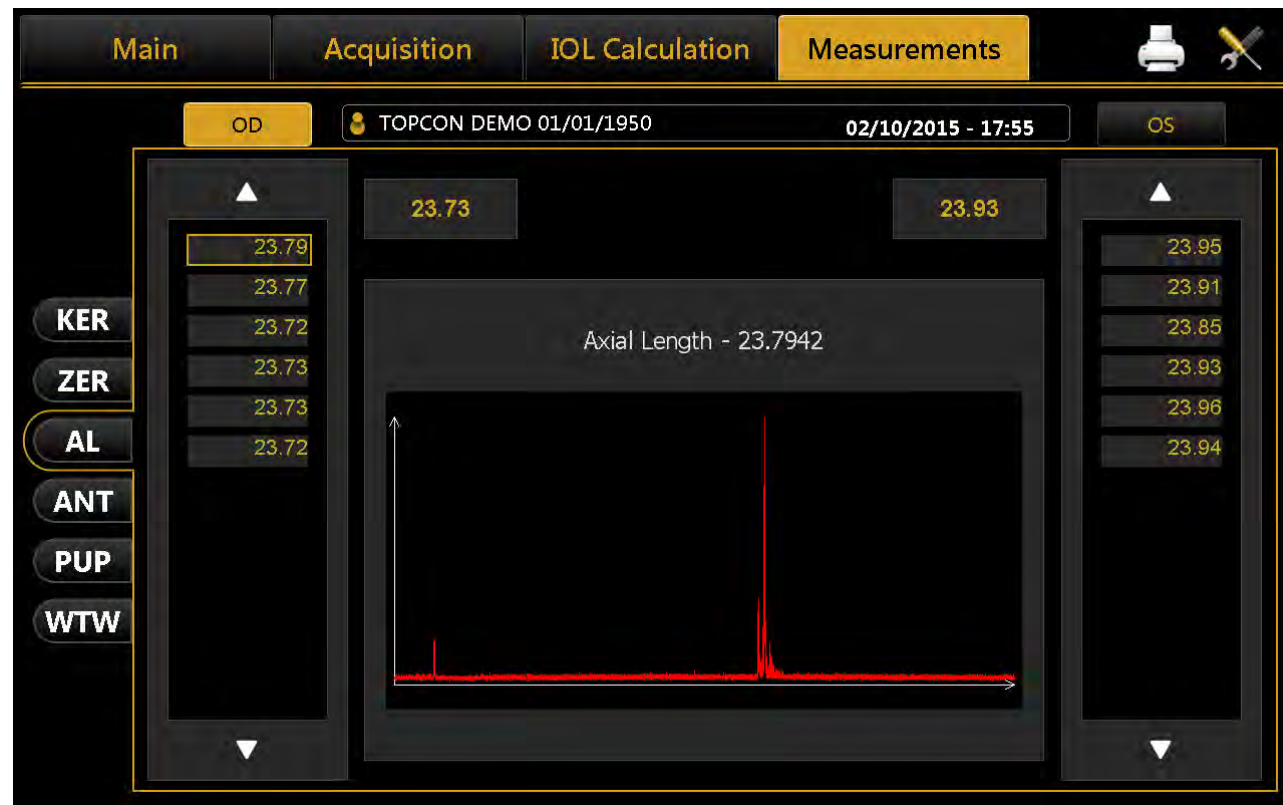
Aberrometry analysis (Zernike)

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

When using the actual Spherical Aberration provided by Zernike analysis, you can select the appropriate aspherical IOL with standardised spherical aberration correction according to the patient's individual required spherical aberration.



* Available in ALADDIN LT only



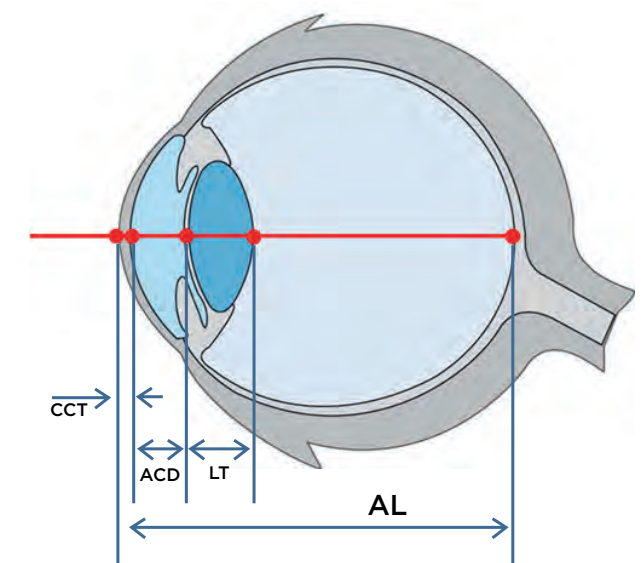
Axial length

Using a low-coherence interferometry system with a super luminescent diode of 850 nm and signal processing, the ALADDIN achieves Axial length measurement with high signal-to-noise ratio and is able to penetrate even high grade dense cataracts. Axial length measurements can be done on normal eyes as well as on aphakic, pseudo-aphakic 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*. Pachymetry is a key feature to measure for all cataract surgery procedures. ACD is measured through interferometry* providing high precision and reproducibility. All interferometry measurements are shown in a graph to make it visible.



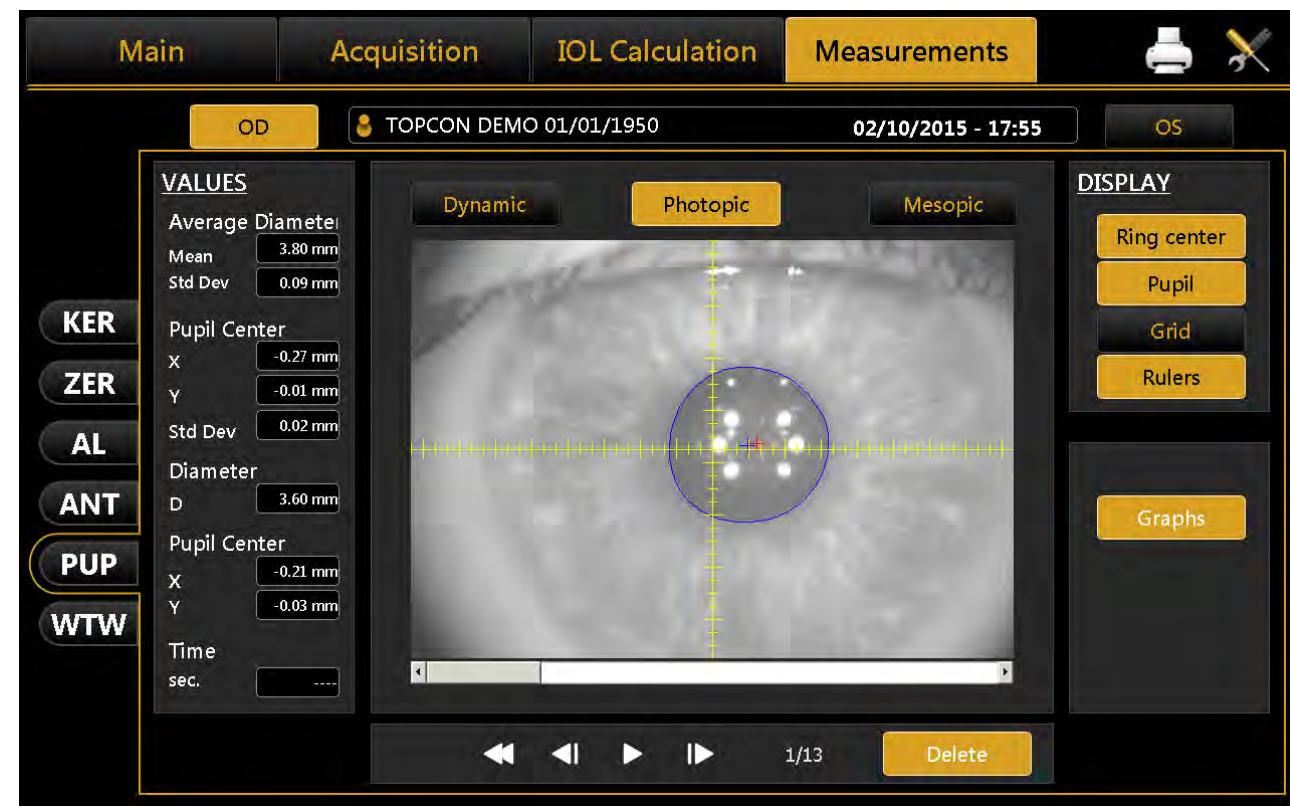
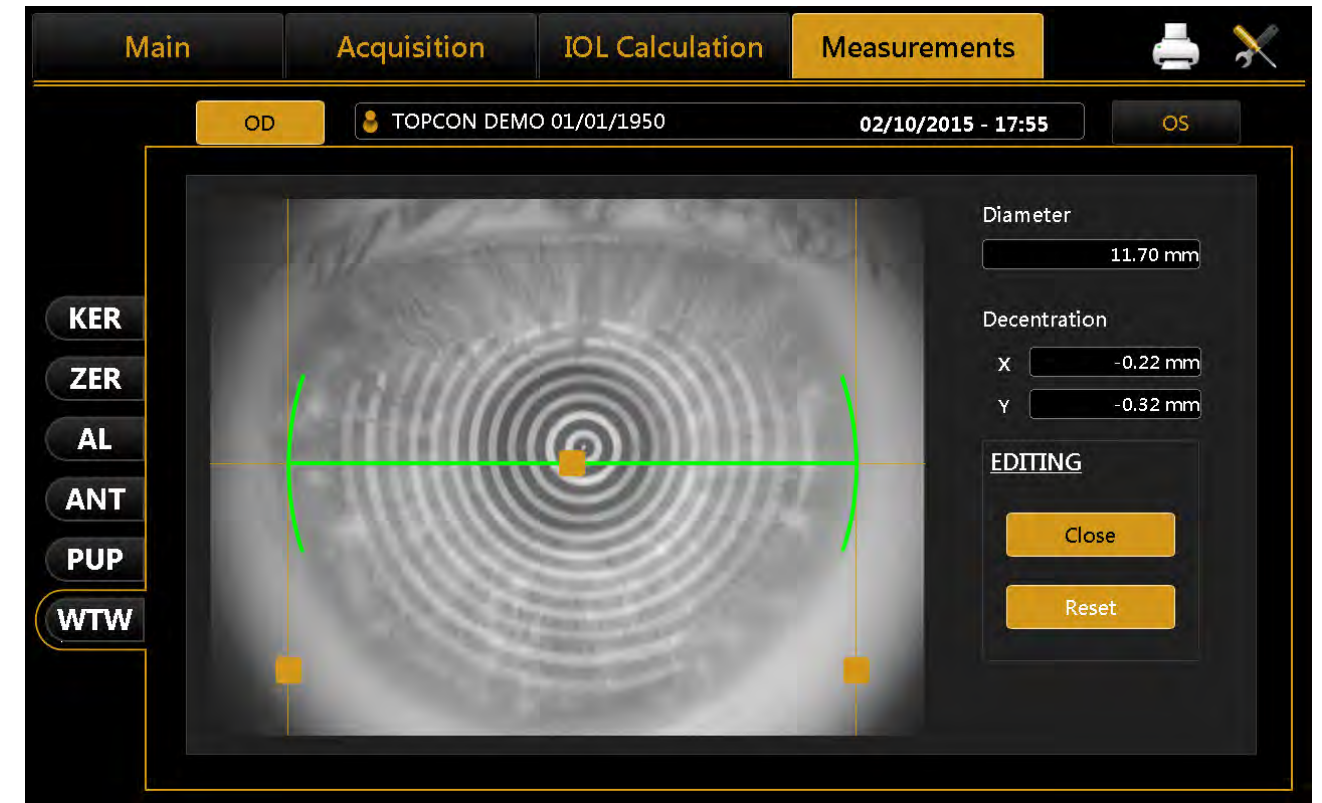
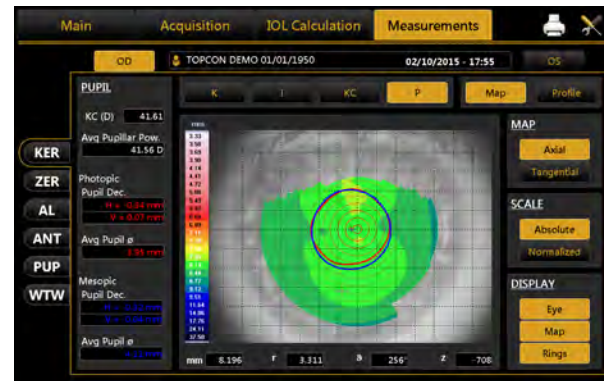
* Available in ALADDIN LT only

* Available in ALADDIN LT only

Pupillometry

During Placido evaluation pupillary response is observed to assess a pseudo Photopic and pseudo Mesopic pupil size, indicating response and normal range of the pupil. Full pupillometry screening assists to evaluate eyes for multifocal IOL implantation 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



White to white

ALADDIN measures automatically white to white dimension which can be manually edited. Reliable white to white measurement is used with anterior chamber intraocular lens and sulcus fixated posterior chamber intraocular lens in highly myopic eyes.



IOL selection

IOL & Toric IOL calculation

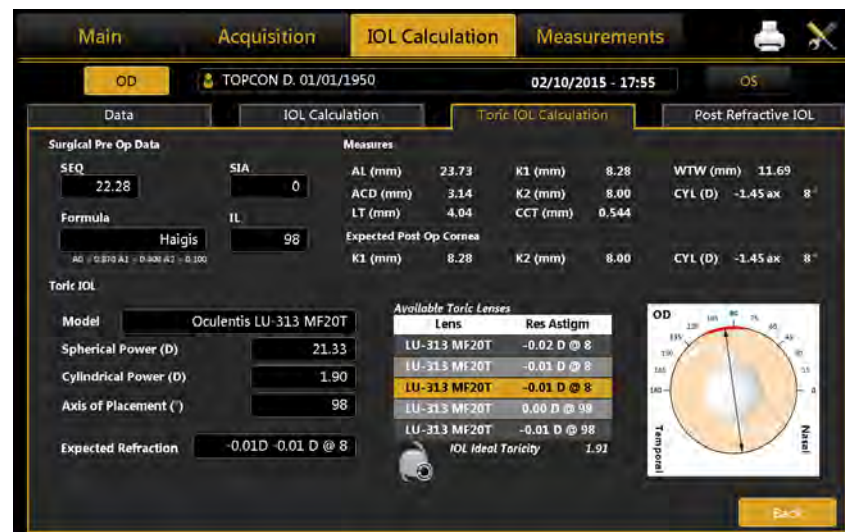
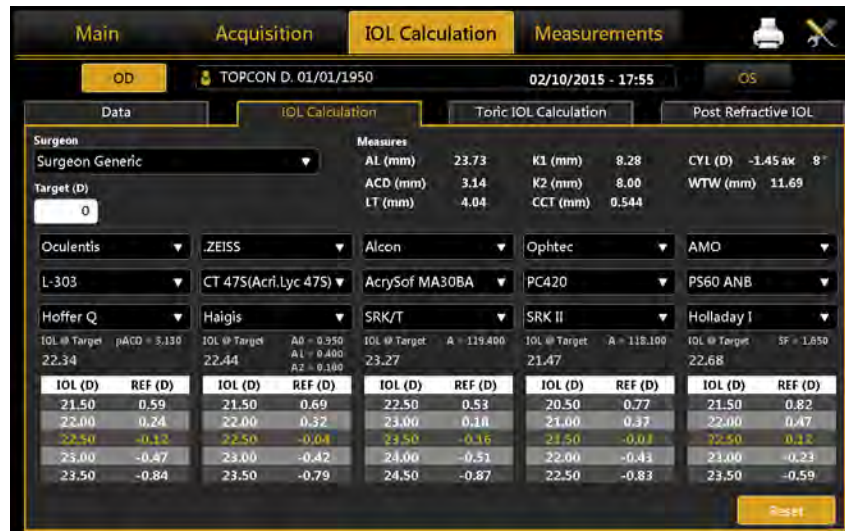
The ALADDIN guides you through the choice of the right IOL for each patient. A combination of IOL brand, type and formulae can be viewed and compared to various chosen combinations, in order to obtain the best post-operative Visual Acuity result for the patient.

A pre-defined IOL selection can be programmed for each individual surgeon.

When implanting a toric IOL, specific toric calculation software* assist you in calculating the best option.

This integrated toric IOL calculator saves you time and avoid unnecessary mistakes when manually entering data online.

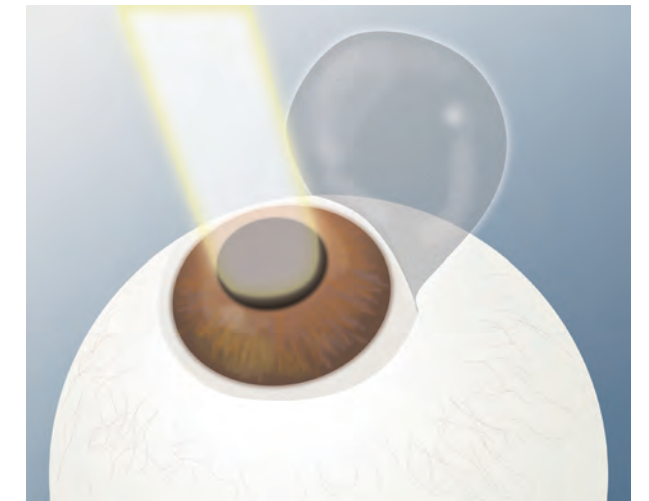
IOL Toric Rotation Simulation Software calculates the induced spherical and cylindrical power for every five degrees toric IOL rotation.



Customisable IOL database

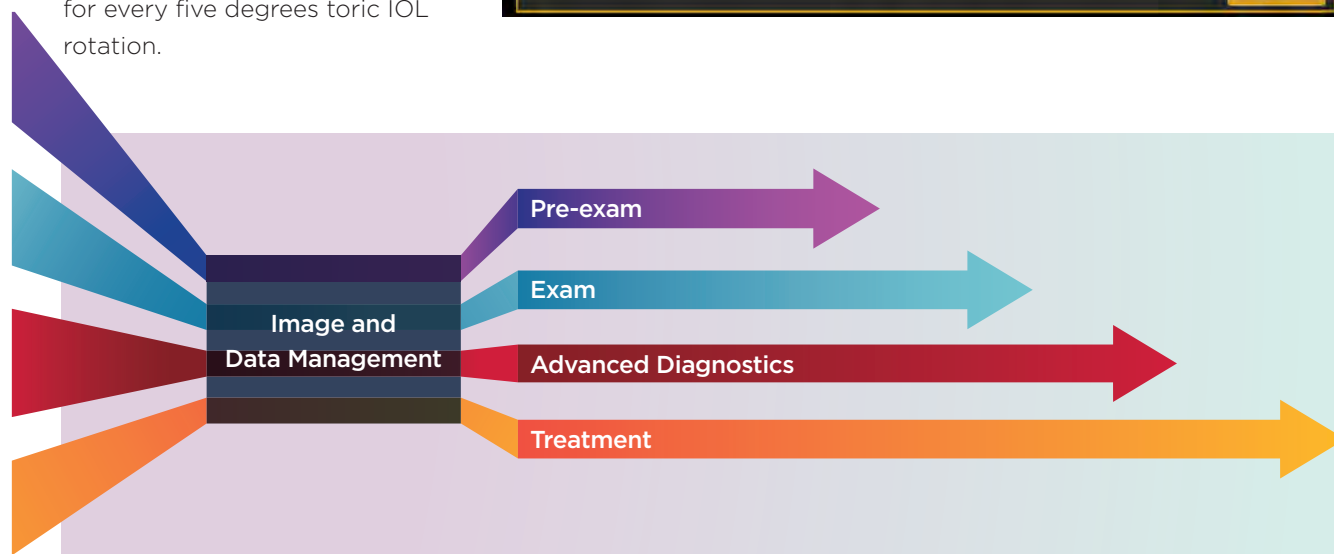
Post refractive IOL

In eyes that have previously undergone refractive surgery such as RK, PRK, Lasik, Lasek, LK and PTK, spherical aberrations are often outside the standard values. In these cases the ALADDIN provide the Camellin Calossi formula. If there is no patient history the Shammass No-history formula can be used for the correct IOL calculation.



Customisable IOL database

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



Connectivity

All biometry, pupillometry and topography data and maps that are generated by ALADDIN can be examined and reviewed in image & data management software.

This image & data management software can be integrated in a network enabled hospital set up for an improved and flexible workflow.

* Available in ALADDIN LT only

* Available in ALADDIN LT only

Topcon's Cataract Workstation



KR-800S Auto kerato-refractometer with subjective function

- 1 VA check far vision
- 2 VA check near vision
- 3 VA check glare condition
- 4 VA check contrast condition
- 5 Grid test (AMD screening)
- 6 VA simulation Premium IOL



Cataract surgery quality control

Cataract surgery quality control

Visual acuity (VA) is the most common clinical measure of the quality results of cataract surgery. It is how we describe and measure the success of surgery and it is therefore critical that it is measured well. Measurement of VA must be standardized and systematic. Topcon's KR-800S Auto Kerato- Refractometer with subjective VA check will do exactly that. With the KR-800S the VA can be subjectively tested pre- and post-operative cataract surgery. With the unique features of the KR-800S such as "Glare" test and "Contrast" test you can even evaluate the progression of cataract and distinct Nuclear cataract from Cortical cataract.

VA Simulation Premium IOL

KR-800S offers a Spherical Equivalent mode which can simulate the benefit of a premium (toric) IOL, to convince the patient for reaching even a higher post-operative VA. The subjective VA test for near will help to convince the patient to choose for 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 the perfect combination for your cataract practice.

KR-800S



Pre-Operative
Subjective Refraction
and Pre-OP-diagnostics

ALADDIN



Pupillography
Topography
Biometry inkl. K1 & K2
IOL Calculation



Cataract
Surgery

KR-800S



Post-Operative
Subjective Refraction
and Post-OP-diagnostics



TOPCON Topcon Europe Medical bv

Patient : TOPCON DEMO Surgeon : Surgeon Generic
 Patient ID : Exam Date : 02/10/2015 - 17:55
 Date Of Birth : 01/01/1950 (mm/dd/yyyy)

OD
Phakic

Normalized Axial Map


OS
Phakic

Normalized Axial Map

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)					
Keratometric Indices											
CYL 3 mm	-1.44 D	Ax:	7°		CYL 3 mm	-3.18 D	Ax:	172°			
CYL 5 mm	-1.46 D	Ax:	8°		CYL 5 mm	-3.16 D	Ax:	172°			
SD	SAI	e	Kc		SD	SAI	e	Kc			
0.36 D	0.47 D	0.49	41.61		0.44 D	0.55 D	0.39	41.40			
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											
OPD	Coma	Sph. Ab.			OPD	Coma	Sph. Ab.				
rms: 0.80 µm	rms: 0.15 µm	rms: 0.10 µm			rms: 1.43 µm	rms: 0.07 µm	rms: 0.14 µm				

Aladdin Summary (V. 1.3.4)

* Available in Aladdin LT only



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

OD
Phakic

Data Measurements n: 1.3375
Aladdin Optical
AL : 23.73 mm K1 : 8.28 mm @ 8°
ACD : 3.14 mm K2 : 8.00 mm @ 98°
LT 4.04 mm CYL : -1.45 D ax 8°
CCT 0.544 mm

Target Refraction: 0

Oculentis L-313		Oculentis LS-313 MF30	
SRK/T		SRK II	
IOL(D)	REF(D)	IOL(D)	REF(D)
20.50	0.83	21.00	0.77
21.00	0.47	21.50	0.37
21.50	0.10	22.00	-0.03
22.00	-0.27	22.50	-0.43
22.50	-0.64	23.00	-0.83
<small>IOL @ Target</small>	<small>A = 118.100</small>	<small>IOL @ Target</small>	<small>A = 118.800</small>
21.64		21.97	

Oculentis LU-313 MF30T		Oculentis LS-412Y	
Haigis		Hoffer Q	
IOL(D)	REF(D)	IOL(D)	REF(D)
21.50	0.58	21.00	0.86
22.00	0.21	21.50	0.51
22.50	-0.16	22.00	0.16
23.00	-0.54	22.50	-0.20
23.50	-0.92	23.00	-0.56
<small>IOL @ Target</small>	<small>A0 = 0.870</small>	<small>IOL @ Target</small>	<small>pACD = 5.070</small>
22.28	<small>A1 = 0.400</small>	22.22	
	<small>A2 = 0.100</small>		

Oculentis LU-800 RZI	
Holladay I	
IOL(D)	REF(D)
19.00	0.90
19.50	0.52
20.00	0.13
20.50	-0.25
21.00	-0.65
<small>IOL @ Target</small>	<small>SF = 0.310</small>
20.17	

Topcon Europe Medical bv

Surgeon : SURGEON GENERIC
Exam Date : 02/10/2015 - 17:55
(mm/dd/yyyy)

OS
Phakic


Data Measurements n: 1.3375
Aladdin Optical
AL : 23.93 mm K1 : 8.51 mm @ 173°
ACD : 3.21 mm K2 : 7.90 mm @ 83°
LT 4.00 mm CYL : -3.06 D ax 173°
CCT 0.556 mm



Target Refraction: 0

Oculentis L-313		Oculentis LS-313 MF30	
SRK/T		SRK II	
IOL(D)	REF(D)	IOL(D)	REF(D)
20.50	0.67	21.00	0.62
21.00	0.31	21.50	0.22
21.50	-0.06	22.00	-0.18
22.00	-0.43	22.50	-0.58
22.50	-0.81	23.00	-0.98
<small>IOL @ Target</small>	<small>A = 118.100</small>	<small>IOL @ Target</small>	<small>A = 118.800</small>
21.42		21.77	

Oculentis LU-313 MF30T		Oculentis LS-412Y	
Haigis		Hoffer Q	
IOL(D)	REF(D)	IOL(D)	REF(D)
21.00	0.81	21.00	0.72
21.50	0.45	21.50	0.37
22.00	0.08	22.00	0.01
22.50	-0.30	22.50	-0.35
23.00	-0.67	23.00	-0.71
<small>IOL @ Target</small>	<small>A0 = 0.870</small>	<small>IOL @ Target</small>	<small>pACD = 5.070</small>
22.10	<small>A1 = 0.400</small>	22.02	
	<small>A2 = 0.100</small>		

Oculentis LU-800 RZI	
Holladay I	
IOL(D)	REF(D)
19.00	0.76
19.50	0.38
20.00	-0.01
20.50	-0.40
21.00	-0.80
<small>IOL @ Target</small>	<small>SF = 0.310</small>
19.99	

IOL Calculator (V. 1.3.4) 

Patient Information

Patient TOPCON DEMO	Surgeon SURGEON GENERIC	OS
Patient ID	Clinic Topcon Europe Medical bv	
Date of Birth 01/01/1950 <small>dd/mm/yyyy</small>	Exam Date 02/10/2015 - 17:55 <small>dd/mm/yyyy</small>	

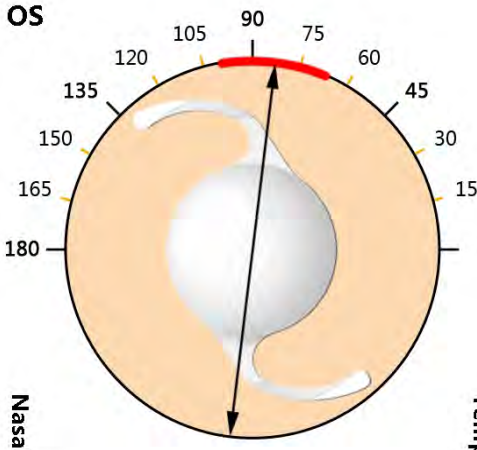
Biometry Data

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

Surgical Pre Op Data			
SEQ (D)	23.00	SIA (D)	0
Formula	Holladay I	IL (°)	83


Expected Post Op Cornea			
K1 Post (mm)	8.51	K2 Post (mm)	7.90
CYL Post (D)	-3.06 @ 173°		

Toric IOL	
Lens Model	Alcon AcrySof SN6AT6
Spherical Power	21.50 D
Cylindrical Power	3.75 D
Sph. Equiv. Power	23.38 D
Axis Of Placement	83°
Expected Refraction	-0.02D -0.44 D @ 173°
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	
	Quantity 1

Notes

1.0.0



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

Topcon Europe Medical bv
Surgeon : Surgeon Generic
Exam Date : 02/10/2015 - 17:55
(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	
0.544 mm		0.556 mm	

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)	
11.70 mm		11.92 mm	

Overview Biometer Measurements (V. 1.3.4)





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

Topcon Europe Medical bv
Surgeon : Surgeon Generic
Exam Date : 02/10/2015 - 17:55
(mm/dd/yyyy)

Dynamic Pupillometry

OD

Diameter (mm)	
Min	Max
3.48	4.98

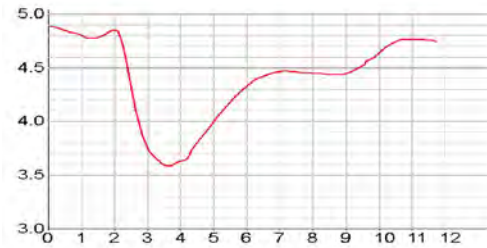
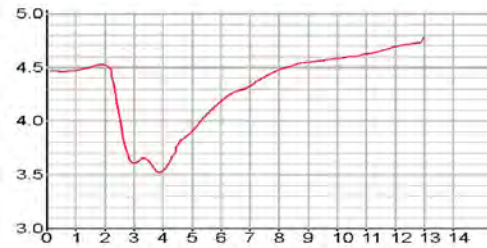
Center (mm)	
Mean	Std Dev
x= -0.27	0.07
y= 0.02	

OS

Diameter (mm)	
Min	Max
3.27	4.78

Center (mm)	
Mean	Std Dev
x= 0.25	0.08
y= -0.04	

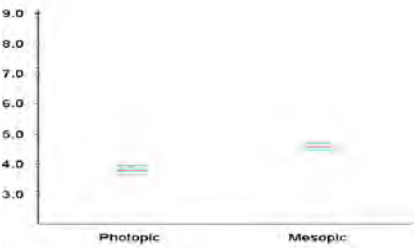
Latency

Static Pupillometry


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



Pupillometry (V. 1.3.4)



Specifications

ALADDIN

ALADDIN LT

Measurement range for IOL		
Axial Length (Interferometry)	Super luminescent diode 850Nm, 15 mm - 38 mm	
Corneal Radii	3,3 mm - 37,5 mm / 9,0 dpt - 101,5 dpt	
ACD measurement	slit illumination 1,5 mm - 5,5 mm	interferometer 1,5 mm - 5,5 mm
WTW measurement	6,0 mm- 18,0 mm	
Pupillometry	Dynamic, Photopic & Mesopic, pupil size 0,5 mm - 10 mm	
Lens Thickness (interferometry)	x	0,300 mm - 0,800 mm
CCT measurement (interferometry)	x	0,300 mm - 0,800 mm
On-board calculation formulas		
IOL formulas	Haigis, Hoffer Q, Holladay 1, SRK*II & SRK*T	
Post Refractive Surgery IOL formulas	Camellin Calossi & Shammas No History	
Placido Topography specifications		
Keratoscopic Cone (topographic map)	24 rings on a 43 dpt sphere, working distance 80 mm	
Points analysed	over 100.000	
Points measured	over 6.200	
Cornea coverage	up to Ø 9,8 mm (on a 8 mm sphere) 42.2 dpt with N=1.3375	
Guided focus system	✓	
Keratoconus screening		
Apical Curvature	✓	
Apical Gradient of Curvature	✓	
Symmetry index	✓	
Kpi (Keratoconus probability index)	x	✓
Software features		
Toric IOL calculator	x	Generic Toric IOL, Oculentis Toric IOL
Zernike analysis	Pupil size 2,5 mm - 7,0 mm	
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	320 GB HDD + 32 GB SSD
Operating system	Windows 8 Embedded OS	
Processor	AMD G-T56N	
Internal memory	2GB RAM	
Power input	AC 100 - 240V 46-63 Hz	
Dimensions	320 mm (W) x 490 mm (H) x 470 mm (L)	
Weight	18 kg	
Connections	1 x LAN, 2 x USB	
Supports	USB Barcode scanner, External USB keyboard / mouse	
Marking	CE, ETL, FDA	CE, ETL
Reports		
Aladdin report	✓	
Measurement overview	✓	
Pupillometry	✓	
IOL	✓	
Generic Toric IOL	x	✓
Oculentis Toric IOL	x	✓

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.



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