ALADDIN

Optical Biometry and Topography system

TOPCON

YOUR VISION. OUR FOCUS.

ALADDIN addresses the limitations of conventional biometers

1 Instrument; 9 Functions

- Axial length
- Keratometry
- Anterior chamber depth
- Central corneal thickness
- Lens thickness
- Corneal topography
- Corneal wavefront analysis
- Pupillometry
- White-to-white

The complete picture - enhanced

With the combination of an optical biometer and full corneal topographer, Topcon pioneered the concept of “the complete picture” in IOL power calculation. Now the complete picture has been enhanced with the addition of the Barrett Universal formula and Olsen formula as a standard component of the ALADDIN.

The final optical result and patient’s satisfaction are paramount in today’s cataract surgery. With the incorporation of the latest in IOL calculation formulae, the ALADDIN remains at the forefront of IOL calculation technology.

Features

True color fundus images
- High quality sensor using proprietary technology

Fully integrated patient database
- Patient search function
- Input post refraction data

Easy acquisition 9-in-1
- Pre-op input of lens and vitreous body

Conventional IOL calculation formulae
- SRK II, SRK/T, Hoffer Q, Holladay 1, Haigis
- Multiple surgeon pre-settings
- ULIB database compatible
- Database customizable

Post refractive IOL calculation formulae
- Camellin-Calossi, Shammas (no history)

Generic toric IOL calculation
- Toric IOL rotation simulator
- Abulafia-Koch Astigmatism Formula

Barrett & Olsen formulae
- With the Barrett Rx, the Barrett Toric Calculator Formula, the Barrett True K and the Barrett Universal II formulae.

Topography
- Full featured corneal mapping
- Accurate corneal radii
- Keratoconus probability index

Corneal wavefront (Zernike) analysis
- Maps (pupil size 2.5 mm – 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
- Biometry report (AL, K, ACD, LT, CCT, WTW)
- To USB, shared folder and printer
- Topography report
- IOL report
- Pupillometry

DICOM™ Compliance

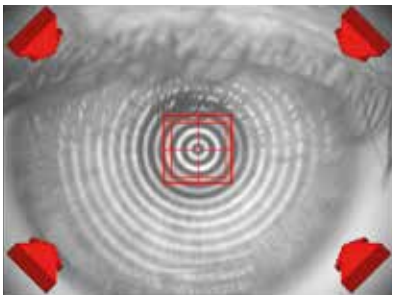
IMAGEnet®6 Compliance

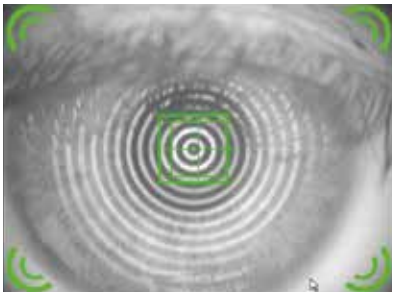
DICOM™ Compliance

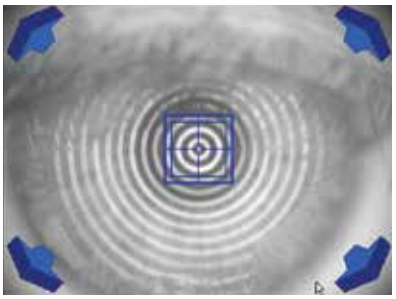
The DICOM panel in the ALADDIN connectivity section allows the user to set the needed parameters for the connections to the available DICOM features:

- Modality Worklist
- Patient Root Query
- Storage
- Storage Commitment

Ease of use







Speed

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

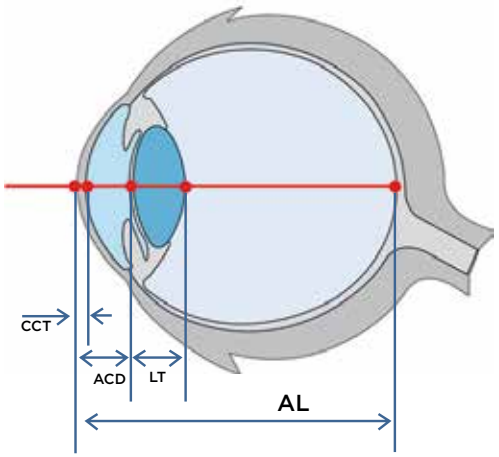
Accuracy

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 color touch-screen monitor is very responsive and comfortable to use. The user-friendly interface guides you through the main functions with ease.

Making an acquisition has never been easier.
To ensure complete accurate biometry, the ALADDIN guides you in focus and alignment with visual color coded signs while taking the acquisition.



Posterior & Anterior interferometry

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.

Biometry results are complemented with anterior topography, Zernike analysis and pupillometry. ALADDIN also provides anterior measurements such as the Central Corneal Thickness (CCT), Anterior Chamber Depth (ACD) and Lens Thickness (LT).

Barrett and Olsen formulae

Dr. Graham D. Barrett

The ALADDIN's Barrett Formula Suite includes the Barrett Rx, the Barrett Toric Calculator Formula, the Barrett True K and the Barrett Universal II formulae. Aberrometry analysis (Zernike)

Onboard Barrett Formula

Dr. Graham D. Barrett developed the Barrett formula in 2013 and takes into account the posterior cornea considering the lens position for each individual patient instead calculating IOL power by estimating lens thickness based on patient's age.
The Barrett formula uses the Universal II, which is a method of predicting IOL power to work out where the lens is and utilizes that information to calculate the effect of the cylinder power at the cornea.
The Universal II formula was also developed by Dr. Barrett. Dr. Barrett's formula considers the thickness and shape of the lens as well, which provides a more sophisticated way of predicting and translating the cylinder power. The formula is able to predict posterior corneal curvature without actually measuring it. The new version of the ALADDIN accurately measures the lens thickness, an important component of the Barrett formula.

Dr. Thomas Olsen

Onboard Olsen Formula

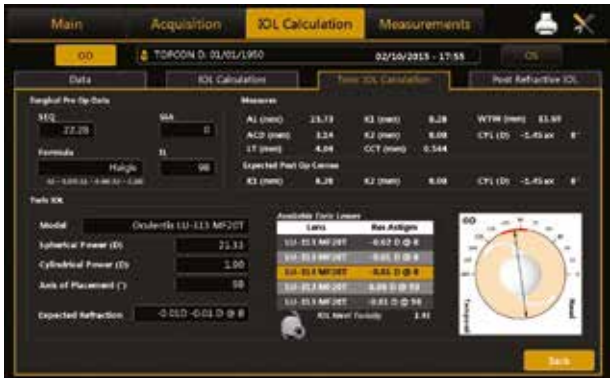
The ALADDIN HW3.0 provides precise measurements of the internal structures of the eye including Central Corneal Thickness and crystalline Lens Thickness. Those measurements used in combination with the onboard Olsen IOL calculation formula provides accurate IOL power calculations in virtually all types of eyes regardless of size. The Olsen formula utilizes a newly developed concept by Dr. Olsen called the C-constant which predicts the Effective Lens Position (ELP) when performing in-the-bag IOL implants. This model also predicts the lens position of anterior chamber IOLs. The C-constant approach performs independently of other conventional measurements such as axial length, keratometry, white-to-white length, IOL power, etc. It will provide accurate IOL calculations in any type of eye.

Dr. Adi Abulafia

Dr. Douglas Koch

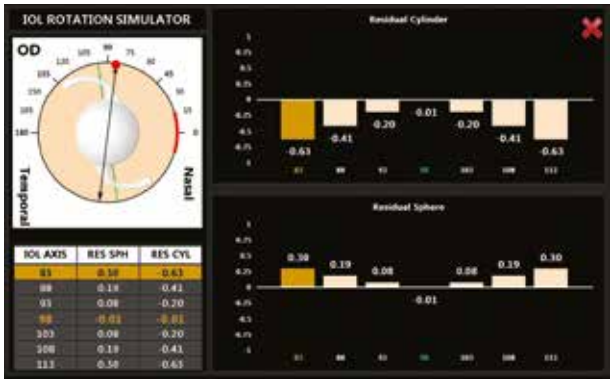
Abulafia-Koch astigmatism cylinder correction for Toric IOL calculations incorporated

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



Precise Toric IOL calculation

A robust generic Toric IOL calculator is incorporated into the ALADDIN software. This integrated toric IOL calculator saves 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 that the toric IOL rotates. Surgically Induced Astigmatism (SIA) and Incision Location (IL) can be inserted by the surgeon and are taken into account for the Toric IOL calculation.

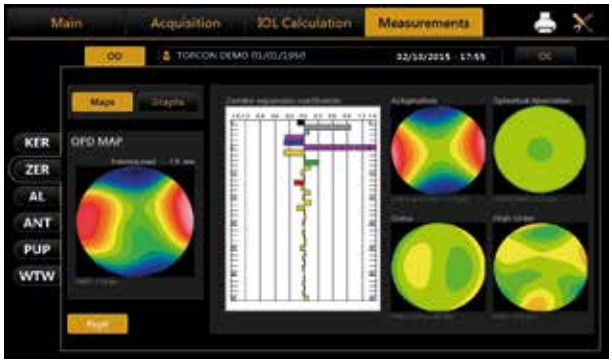


Axial length

Using a low-coherence interferometry system with a super luminescent diode of 830 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.

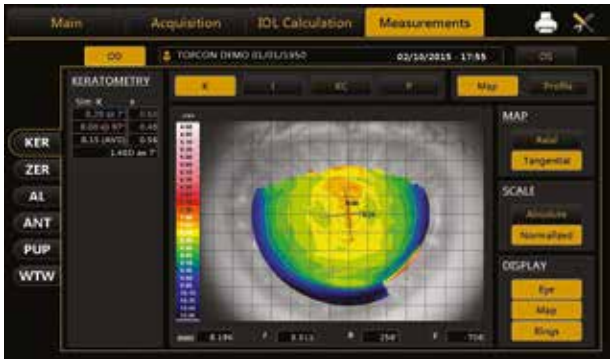
Anterior biometry

Anterior biometry with the ALADDIN makes it possible to measure Central Corneal Thickness (CCT), Anterior Chamber Depth (ACD) and the crystalline Lens Thickness (LT). ACD is measured through interferometry providing high precision and reproducibility. All interferometry measurements are shown in a single graph quick reference.



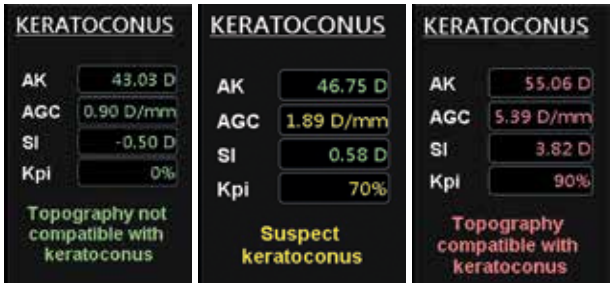
Aberrometry analysis (Zernike)

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 2.5 mm to 7.0 mm. When using the actual spherical aberration provided by Zernike analysis, you can select the appropriate aspherical IOL with standardized spherical aberration correction according to the patient's individual required spherical aberration.



Keratometry / Topography

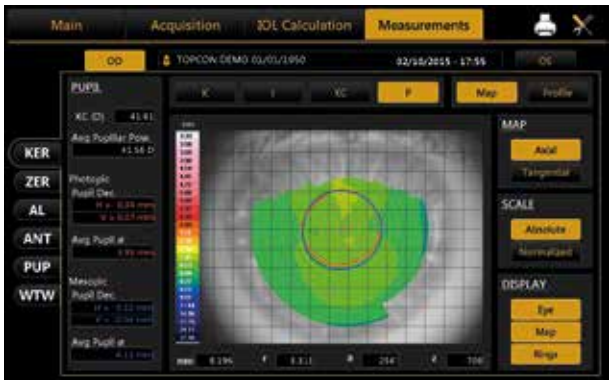
Full corneal topography provides substantially more information than conventional central keratometry. Corneal topography data is especially useful in the selection of toric IOL's to quickly differentiate regular and irregular astigmatism as well as corneal aberrations. The ALADDIN provides accurate corneal topography obtained from the reflection of a set of 24 Placido rings in combination with a low coherence interferometer.



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 color codes.

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



Pupillometry

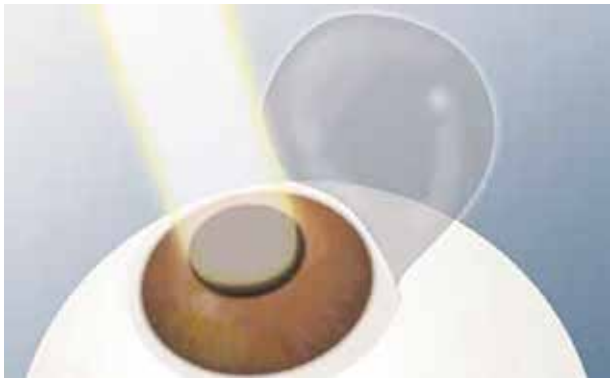
During Placido evaluation, pupillary response is observed to assess a pseudo Photopic and pseudo Mesopic pupil size, indicating response and normal range of the pupil. Full pupillometry screening assists to evaluate eyes for multifocal IOL implantation or refractive surgery.

For any refractive procedure it is important to carefully evaluate the pupil size in different light conditions to address cases of extremely small or decentered pupils. The ALADDIN can perform pupillometry in three different modes:

- Dynamic
- Photopic
- Mesopic

White-to-white

The ALADDIN automatically measures white-to-white length which can be manually edited. Reliable white-to-white measurement is used for anterior chamber intraocular lens and sulcus fixated posterior chamber intraocular lens calculation in highly myopic eyes.



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 provides the Camellin-Calossi and the Barrett True K formulae. If there is no patient history the Shammas (no history) or the Barrett True K formulae can be used for the correct IOL calculation.

Customizable IOL database

The ALADDIN provides a full ULIB database which can be easily upgraded and customized.
The surgeon can manually upgrade the A-constant for each individual IOL to obtain even a higher accuracy every time a cataract surgery is performed.
Favorite IOL's can be selected and programmed for each surgeon, making IOL selection simple and personalized.

IMAGEnet®6 Compliance

IMAGEnet®6 viewer software

IMAGEnet®6 is Topcon's web based digital software platform for ophthalmic imaging, capable of acquiring, displaying, enhancing, analyzing, and saving digital images and reports obtained with a variety of Topcon devices such as the ALADDIN.
IMAGEnet®6 provides flexibility of viewing Biometry, Keratometry, Pupillometry data and all available ALADDIN exported reports in a network environment. There are a variety of software configurations available. Additional components can be added according to your clinic's needs.

Screenshot of Biometry data in IMAGEnet®6

Topcon's Cataract Workstation

KR-800S Auto kerato-refractometer with subjective function

6 in 1 Easy to Use

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

KR-800S

Pre-Operative
Subjective Refraction
and Pre-OP-diagnostics

Cataract surgery quality control

Topcon's Cataract Workstation

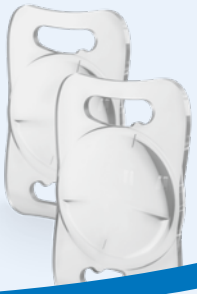
Visual acuity (VA) is the most common clinical measure of the quality of cataract surgery.
It is how the success of surgery is measured and it is therefore critical that it is measured correctly.
Measurement of VA must be standardized and systematic. Topcon's KR-800S Auto Kerato-Refractometer with subjective VA check will do exactly that. With the KR-800S the VA can be subjectively tested before and after cataract surgery.
With the unique features of the KR-800S such as Glare test and Contrast test, the progression and differentiation of nuclear cataract from cortical cataract can be evaluated.

Premium IOL simulation

The KR-800S offers a spherical equivalent mode, which can simulate the benefit of a premium (toric) IOL, to encourage the patient to reach an even higher post-operative VA. The subjective VA test for near vision will demonstrate the benefits of a multifocal IOL to the patient.

ALADDIN

Pupillography
Topography
Biometry incl. K1 & K2
IOL Calculation



Cataract surgery

KR-800S

Post-Operative
Subjective Refraction
and Post-OP-diagnostics

Reports measurement summary

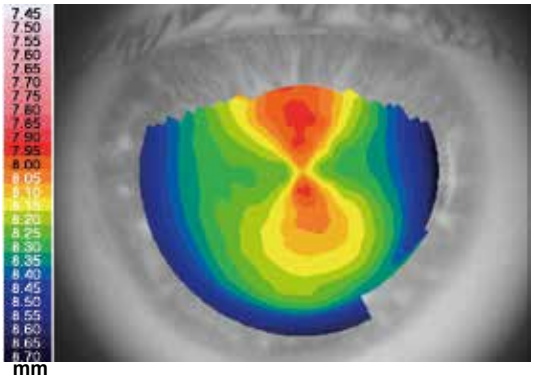
TOPCON

Topcon Europe Medical bv

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

OD Phakic

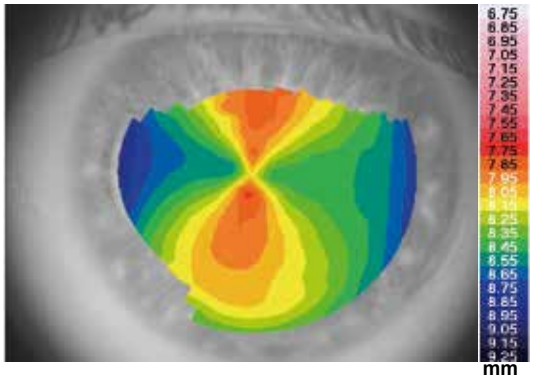
Normalized Axial Map



mm

OS Phakic

Normalized Axial Map



mm

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	**-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**

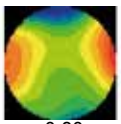
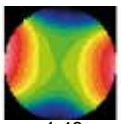
Keratoconus Screening

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. 1.4.0)

ALADDIN

TOPCON

Topcon Europe Medical bv

Patient : **TOPCON DEMO**

Patient ID :

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

Surgeon : **SURGEON GENERIC**

Exam Date (mm/dd/yyyy) : **02/10/2015 - 17:55**

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

SRK/T	
IOL(D)	*REF(D)*
20.50	0.83
21.00	0.47
21.50	**0.10**
22.00	-0.27
22.50	-0.64

IOL @ Target 21.64 — A = 118.100

Oculentis
LS-313 MF30

SRK II	
IOL(D)	*REF(D)*
21.00	0.77
21.50	0.37
22.00	**-0.03**
22.50	-0.43
23.00	-0.83

IOL @ Target 21.97 — A = 118.600

Oculentis
LU-313 MF30T

Haigis	
IOL(D)	*REF(D)*
21.50	0.58
22.00	0.21
22.50	**-0.16**
23.00	-0.54
23.50	-0.92

IOL @ Target 22.28 — A0 = 0.870, A1 = 0.400, A2 = 0.100

Oculentis
LS-412Y

Hoffer Q	
IOL(D)	*REF(D)*
21.00	0.86
21.50	0.51
22.00	**0.16**
22.50	-0.20
23.00	-0.56

IOL @ Target 22.22 — pACD = 5.070

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

IOL @ Target 20.17 — SF = 0.310

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

SRK/T	
IOL(D)	*REF(D)*
20.50	0.67
21.00	0.31
21.50	**-0.06**
22.00	-0.43
22.50	-0.81

IOL @ Target 21.42 — A = 118.100

Oculentis
LS-313 MF30

SRK II	
IOL(D)	*REF(D)*
21.00	0.62
21.50	0.22
22.00	**-0.18**
22.50	-0.58
23.00	-0.98

IOL @ Target 21.77 — A = 118.600

Oculentis
LU-313 MF30T

Haigis	
IOL(D)	*REF(D)*
21.00	0.81
21.50	0.45
22.00	**0.08**
22.50	-0.30
23.00	-0.67

IOL @ Target 22.10 — A0 = 0.870, A1 = 0.400, A2 = 0.100

Oculentis
LS-412Y

Hoffer Q	
IOL(D)	*REF(D)*
21.00	0.72
21.50	0.37
22.00	**0.01**
22.50	-0.35
23.00	-0.71

IOL @ Target 22.02 — pACD = 5.070

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

IOL @ Target 19.99 — SF = 0.310

IOL Calculator (V. 1.4.0)

ALADDIN

Reports generic toric IOL calculation

TOPCON

Topcon Europe Medical BV

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

OS
Phakic

Measures (Aladdin Optical)

K1:	**39.64 D**	AL:	**23.93 mm**	LT:	**4.00 mm**	WTW:	**11.98 mm**
K2:	**42.71 D**	ACD:	**3.21 mm**	CCT:	**0.556 mm**	WTW Dec	**(0.40,-0.07) mm**
CYL:	**-3.06 D @ 173°**						
n:	**1.3375**						

Toric IOL

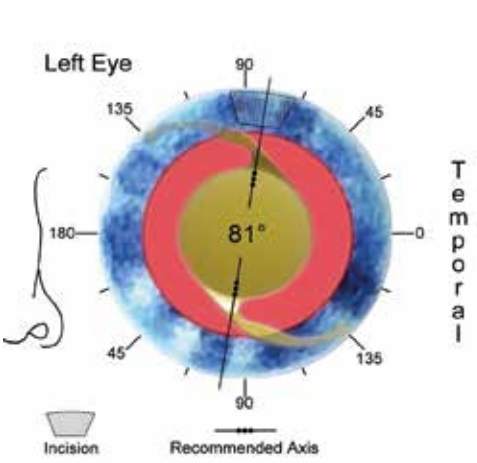
Target Refraction: **0.00 D** SIA: **0.00 D** IL: **83°**

Toric IOL: Oculentis LS-313 T3 21.50 D (S.E.) 3.00 D @ 81°

LF = 1.412, A constant = 118.100

Cylinder Power: IOL Plane 3.00 D ~ Corneal Plane 2.20 D

Predicted refraction:
0.07 D sph. -0.03 D @ 81°



IOL Power (S.E.)	Refraction (S.E.)	IOL submodel	IOL toricity	Residual astigmatism
20.50 D	0.81 D	LS-313 T1	1.50 D	-1.07 D @ 171°
21.00 D	0.43 D	LS-313 T2	2.25 D	-0.52 D @ 171°
21.50 D	**0.06 D**	**LS-313 T3**	**3.00 D**	**-0.03 D @ 81°**
22.00 D	-0.33 D	LS-313 T4	3.75 D	-0.58 D @ 81°
22.50 D	-0.71 D	LS-313 T5	4.50 D	-1.13 D @ 81°

BarrettUniversalIIToric (v1.6.0 RC) 2017/01/20 11:45:31

ALADDIN

TORIC IOL

TOPCON

Patient Information

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

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**

SF = 1.980

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

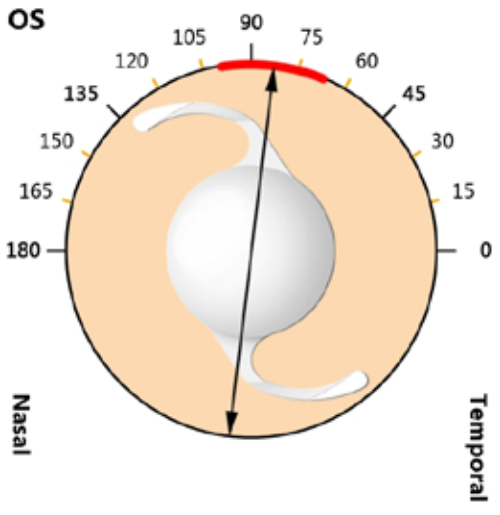
Spherical Power	Cylindrical Power
21.50 D	**3.75 D**
Sph. Equiv. Power	Axis Of Placement
23.38 D	**83°**

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

1.4.0

Reports generic toric IOL calculation

TOPCON

Topcon Europe Medical bv

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

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

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)

Overview Biometer Measurements (V. 1.4.0)

ALADDIN

TOPCON

Topcon Europe Medical bv

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

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

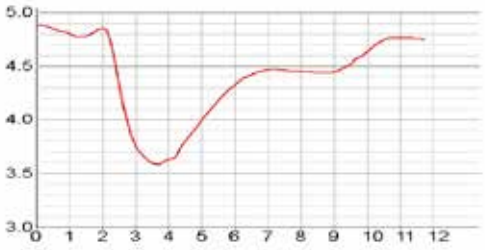
Diameter (mm)

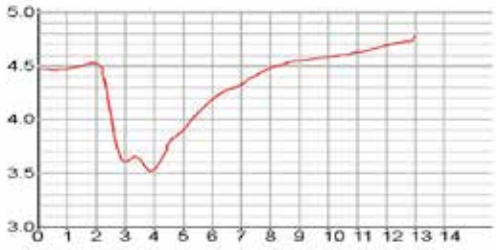
Min	Max
3.27	4.78

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

Diameter (mm)

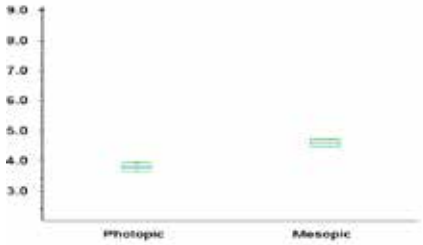
	Mesopic	Photopic
Mean	4.60	3.71
Std Dev	0.09	0.10

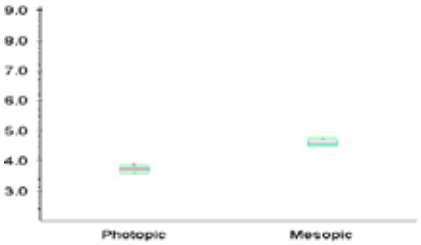
Center (mm)

	Mesopic	Photopic
X	-0.33	-0.27
Y	0.04	-0.01

Center (mm)

	Mesopic	Photopic
X	0.25	0.21
Y	-0.15	-0.09





Pupillometry (V. 1.4.0)

ALADDIN

Specifications

Measurement range for IOL	
Axial length (Interferometry)	Super luminescent diode 830 nm, 15.00 mm - 38.00 mm
Corneal radii	5.00 mm - 12.00 mm / 28.00D - 67.50D
Anterior chamber depth measurement	interferometer 1.50 mm - 6.50 mm
White-to-white measurement	8.00 mm - 14.00 mm
Pupillometry	Dynamic, Photopic & Mesopic, pupil size 0.50 mm - 10.00 mm
Lens thickness (interferometry)	1.50 mm - 6.50 mm (phakic) 0.50 mm - 3.50 mm (pseudo-phakic)
Central Corneal Thickness measurement (interferometry)	0.300 mm - 0.800 mm
Onboard calculation formulae	
IOL formulae	Haigis, Hoffer Q, Holladay 1, SRK®II & SRK®T, Barrett Universal II, Olsen
Post Refractive IOL formulae	Camellin-Calossi & Shammas (no history) Olsen, Barrett True K
Placido Topography specifications	
Keratoscopic Cone (topographic map)	24 rings on a 43 dpt sphere, working distance 80 mm
Points analyzed	over 100,000
Points measured	over 6,000
Cornea coverage	up to Ø 9.8 mm (on a 8 mm sphere) 42.20D with n=1.3375
Guided focus system	yes
Keratoconus screening	
Apical curvature	yes
Apical gradient of curvature	yes
Symmetry index	yes
Kpi (Keratoconus probability index)	yes
Software features	
Toric IOL calculator	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 inch touchscreen
Storage	At least 320 GB HDD + 32 GB SSD
Operating system	Windows 7 Embedded OS
Processor	AMD G-T56N
Internal memory	2 GB RAM
Power input	AC 100 - 240V, 50 - 60Hz
Dimensions	320 mm (W) x 490 mm (H) x 470 mm (L)
Weight	18 kg
Connections	1x LAN, 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
Oculentis Toric IOL	yes

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 Class IIa. Manufacturer: VISIA imaging S.r.l.

CE 0123

TÜV SÜD ISO 13485

VISIA Imaging S.r.l.

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