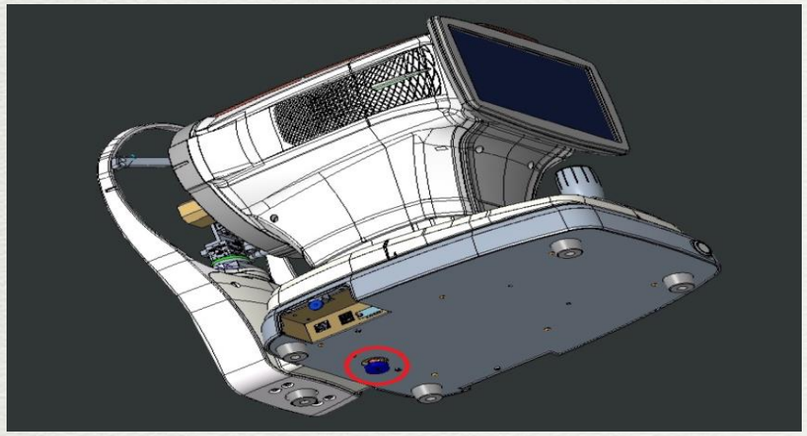
Operational Guide for

HBM-1 / HTG-1

May 20th, 2024

Contents

How to activate HBM-1



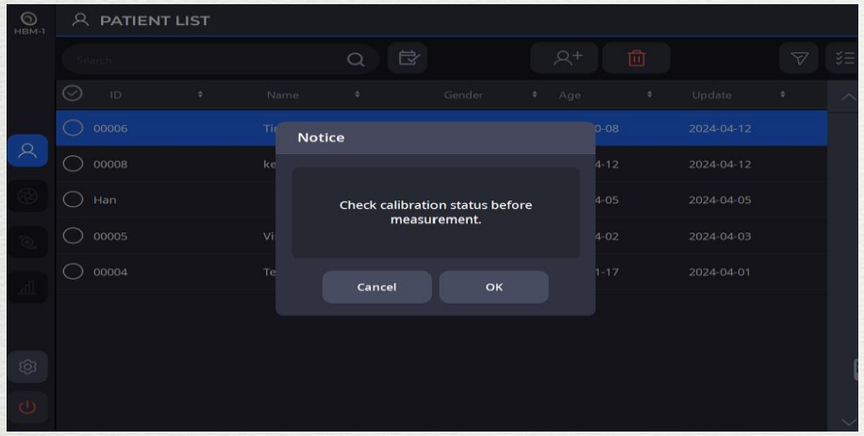
Unlock packing lock

Turn on Power

Run the Software

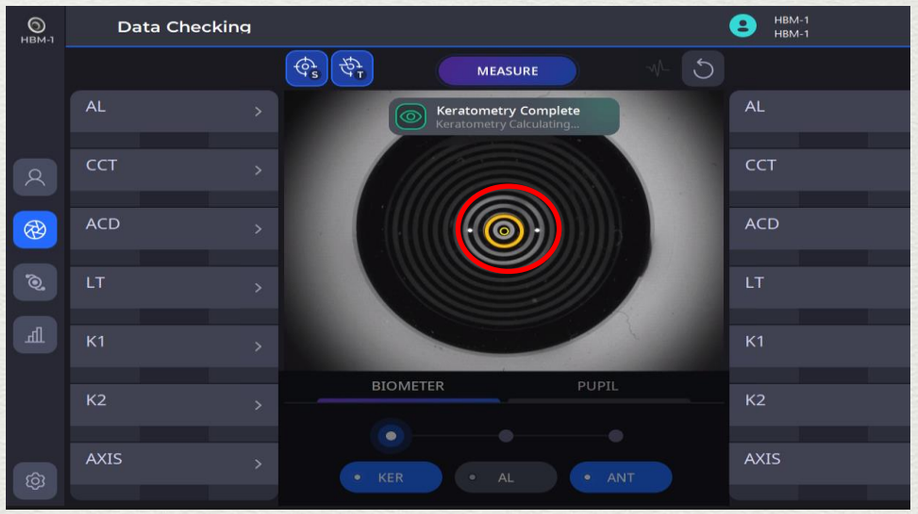
Insert ID/PW: huvitz / huvitz

How to activate HBM-1

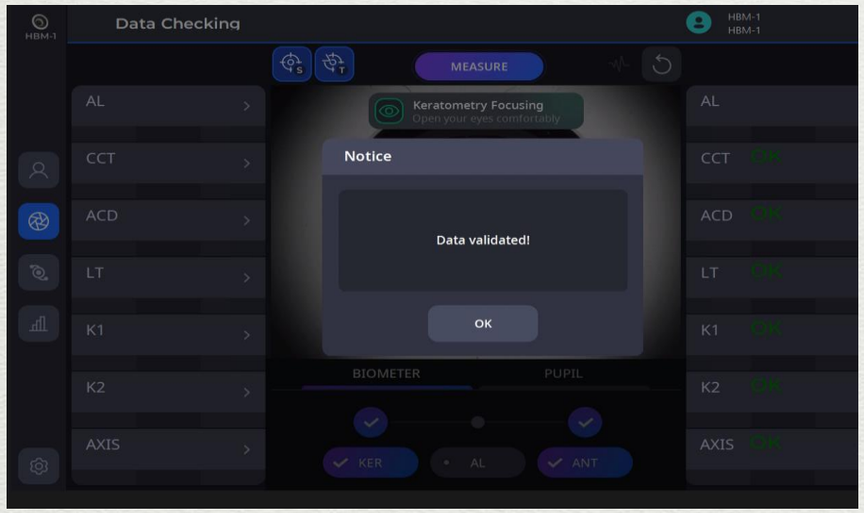


Check calibration status **regularly**

Place a model eye on the chinrest



Set up the focus like the picture

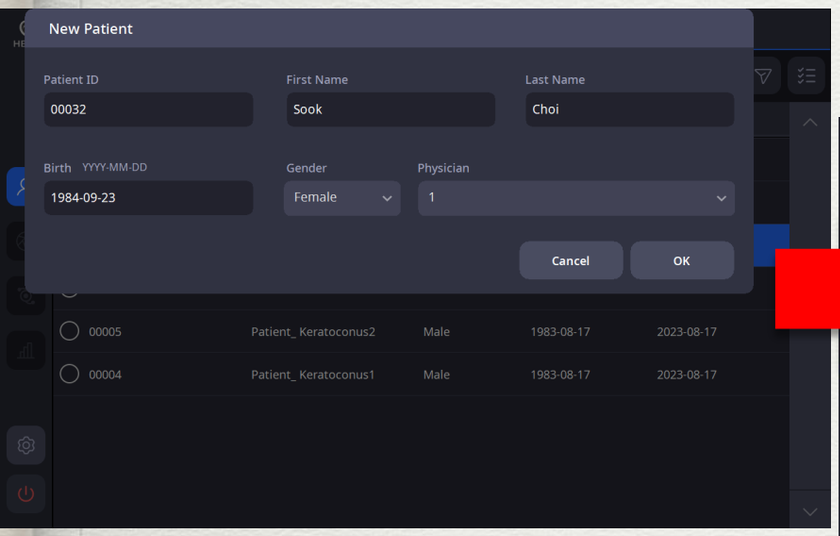


Check the message “Data validated”

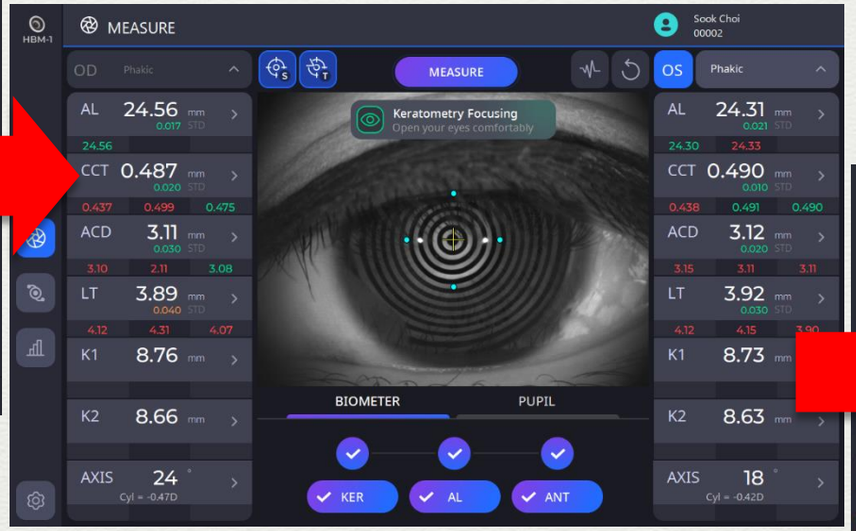
Workflow

Operation

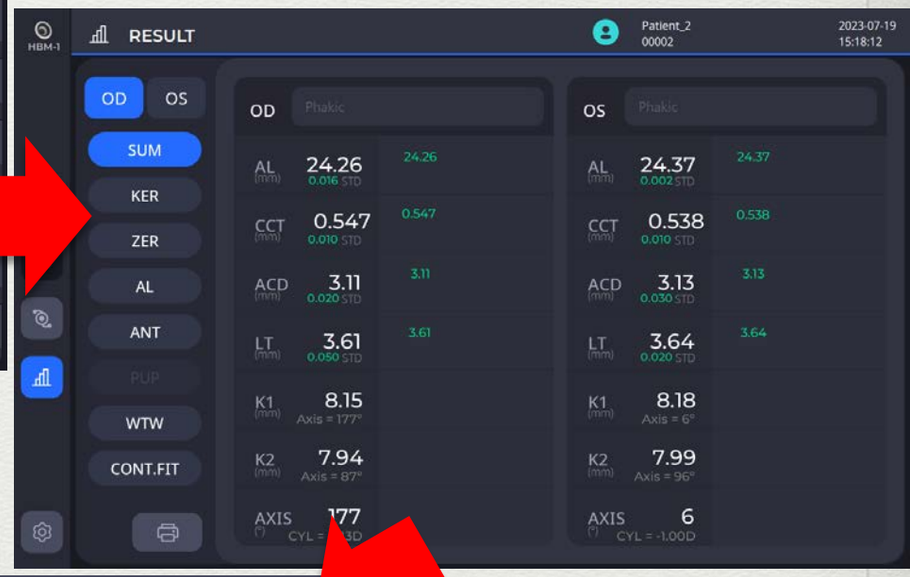
Patient Info

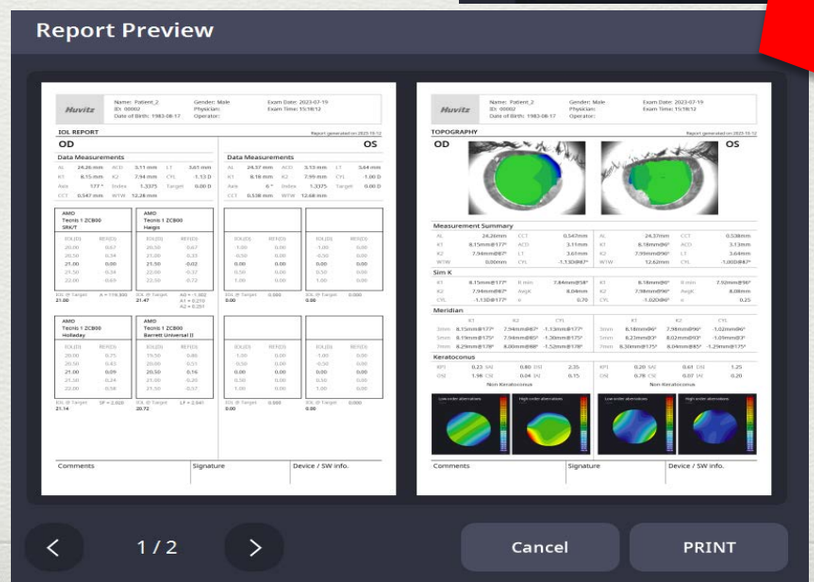


Measurement



Result





Workflow

1. Easy & fast workflow
2. Auto tracking & shoot
3. Separate measurement

Patient Page

Operation

HBM-1

PATIENT LIST

Searching

Today List

New

Delete

Transfer (HIIS-1)

Search

ID	Name	Gender	Age	Update
00014	김재민	Male	1983-10-13	2023-10-13
00013	임인호	Male	1983-10-13	2023-10-13
00012	김정환	Male	1983-10-13	2023-10-13
	이화준	Male	1983-10-13	2023-10-13
00010	송인석	Male	1983-10-13	2023-10-13
00032	Sook Choi	Female	1984-09-23	2023-10-13
00002	Patient_2	Male	1983-08-17	2023-10-12
01	Patient_1_myopia	Male	2006-08-17	2023-10-05
07	Patient DCM_IOL	Male	1983-08-17	2023-09-26

Current Selection

Disabled

User Option

Power Off

New Patient

Operation

New Patient

Patient ID

00032

First Name

Sook

Last Name

Choi

Birth YYYY-MM-DD

1984-09-23

Gender

Female

Physician

1

Each Physician can have its own lens & formulas

Cancel

OK

00005	Patient_ Keratoconus2	Male	1983-08-17	2023-08-17
00004	Patient_ Keratoconus1	Male	1983-08-17	2023-08-17

Patient Detail Page

Operation

HBM-1

PATIENT LIST

Edit Patient

Transfer (HIIS-1)

Patient ID 00011

Name 이화준

Gender Male

Age 1983-10-13

Physician

MYOPIA

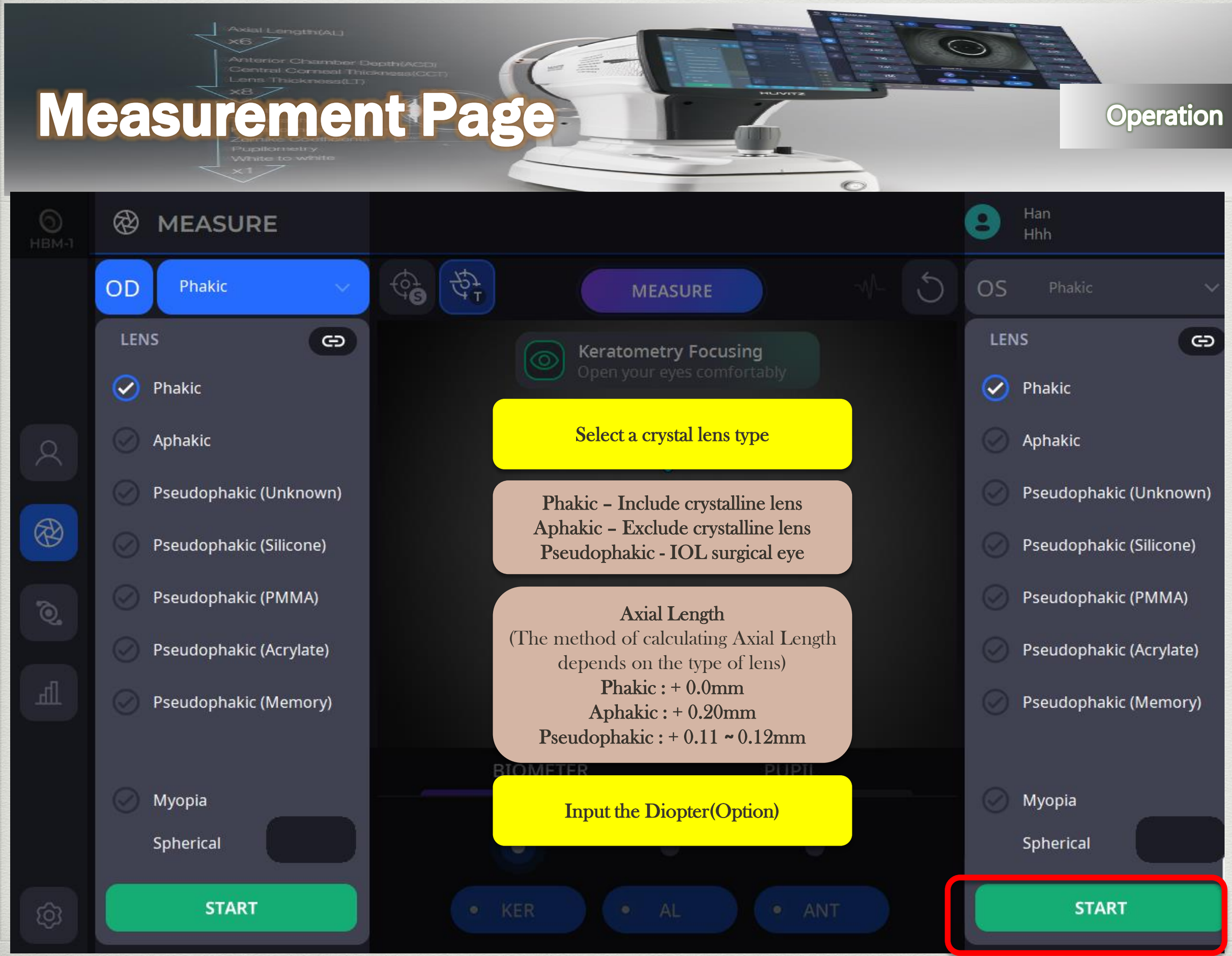
Start Myopia management

Delete Patient

	DATE / TIME	AL	CCT	ACD	LT	K1	K2	Axis	Lens	
OD	2023-10-13	24.82	0.594	3.10	4.76	7.99	7.64	179	Phakic	
OS	14:48:05	24.18	0.594	3.06	4.75	7.88	7.60	0	Phakic	Natural

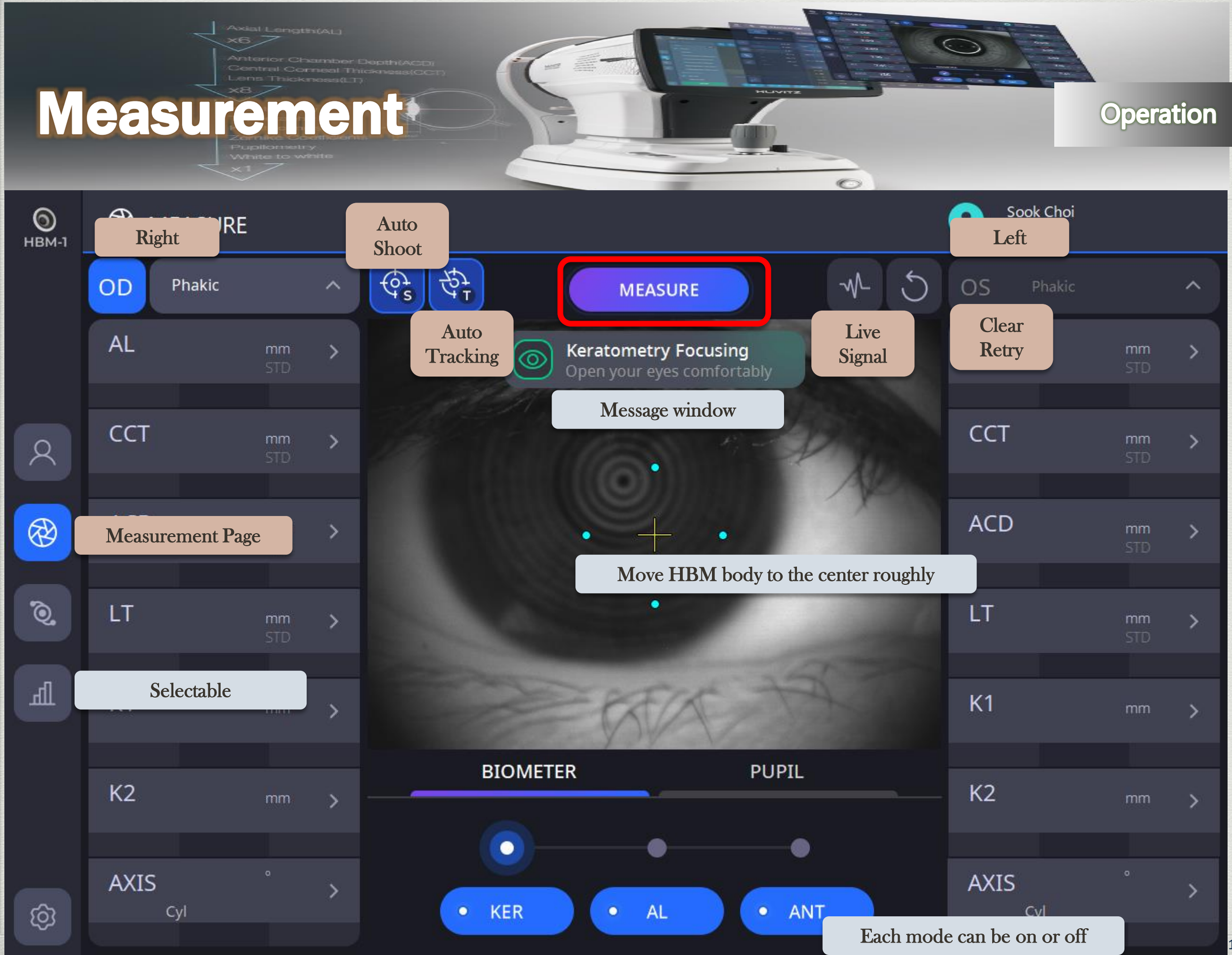
Press this button to start a measurement

Measurement Page

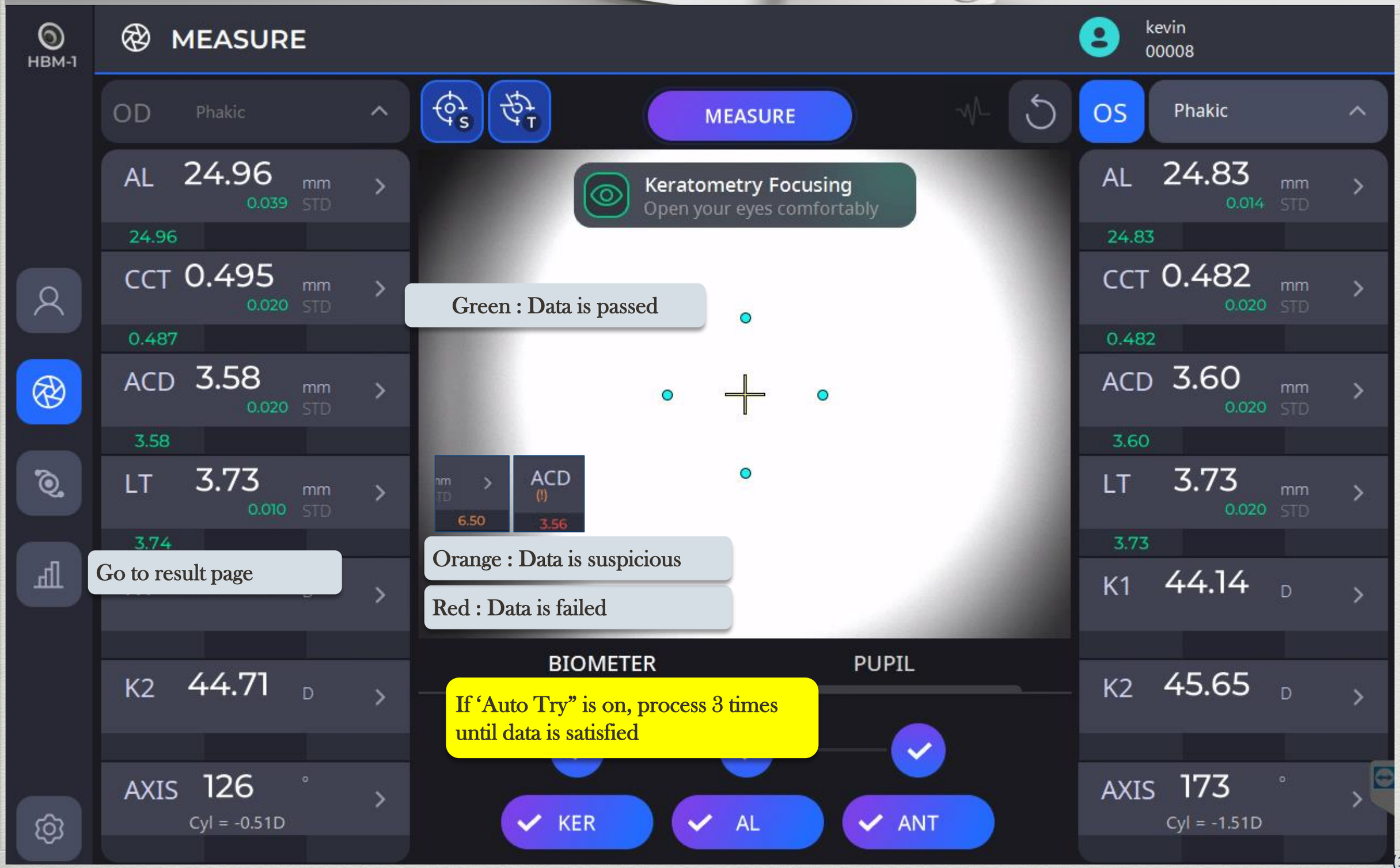


Measurement

Operation



Measurement



Go to result page

Measurement(Bad Case Ker Tear 1)

Operation

HBM-1

RESULT

Cristea Elena
F2-00002

2023-11-27
18:27:01

OD | OS

SUM

KER

ZER

AL

ANT

PUPIL

WTW

CONT.FIT

MAP | PROFILE

67.50
66.00
64.50
63.00
61.50
60.00
58.50
57.00
55.50
54.00
52.50
51.00
49.50
48.00
46.50
45.00
43.50
42.00
40.50
39.00
37.50
36.00
34.50
33.00
31.50
30.00
D

EYE | MAP | RING

Axial

SCALE

SimK

K1(Rf)
44.34D(7.61mm) @81°

K2(Rs)
45.75D(7.38mm) @171°

CYL
-1.41D

K Max(R Min)
45.87D(7.36mm) @3°

K Avg
45.04D(7.49mm)

Ecc(8mm)
e 0.61

Measurement(Bad Case Ker Tear 2)

Operation

HBM-1

RESULT

Muresan Ana
F2-00007

2023-12-04
17:30:49

OD | OS

SUM

KER

ZER

AL

ANT

PUPIL

WTW

CONT.FIT

MAP | PROFILE

67.50
66.00
64.50
63.00
61.50
60.00
58.50
57.00
55.50
54.00
52.50
51.00
49.50
48.00
46.50
45.00
43.50
42.00
40.50
39.00
37.50
36.00
34.50
33.00
31.50
30.00
D

EYE | MAP | RING

Axial

SCALE

SimK

K1(Rf)
45.52D(7.41mm) @23°

K2(Rs)
46.81D(7.21mm) @113°

CYL
-1.29D

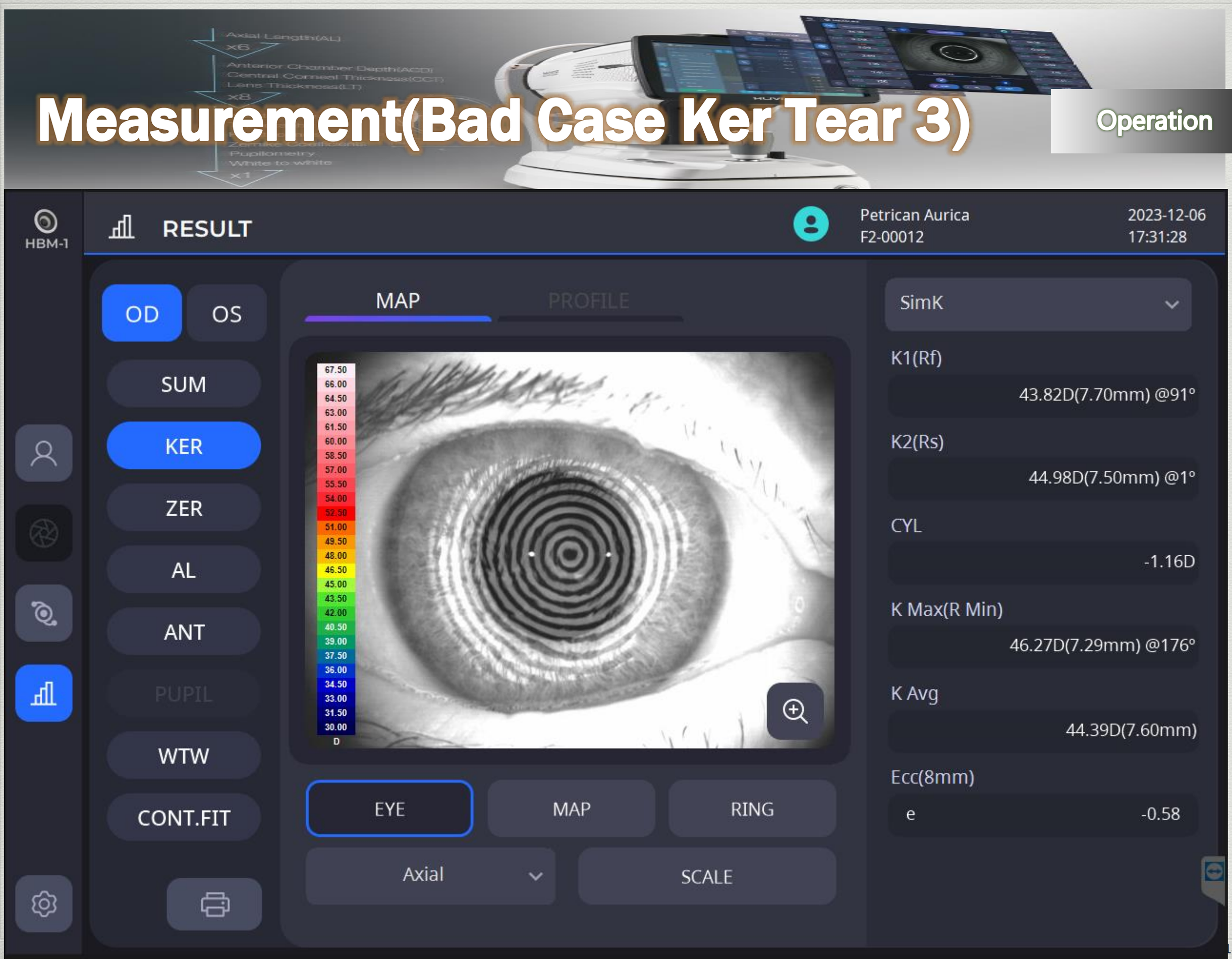
K Max(R Min)
48.65D(6.94mm) @84°

K Avg
46.16D(7.31mm)

Ecc(8mm)
e 0.30

Measurement(Bad Case Ker Tear 3)

Operation



Measurement(Bad Case Ker Eyebrow)

Operation

HBM-1

RESULT

Ye J
40178

2023-02-28
15:49:24

OD | OS

SUM

KER

ZER

AL

ANT

PUPIL

MAP | PROFILE

54.00 53.00 52.00 51.00 50.00 49.00 48.00 47.00 46.00 45.00 44.00 43.00 42.00 41.00 40.00 39.00 38.00 37.00 36.00 35.00 34.00 33.00 32.00 31.00

SimK

K1(Rf)
41.95D(8.04mm) @2°

K2(Rs)
43.44D(7.77mm) @92°

CYL
-1.49D

K Max(R Min)
44.66D(7.56mm) @93°

K Avg
42.68D(7.91mm)

Ecc(8mm)
-0.90

RING

CALL

SETUP

System

Patient

Measure

Connectivity

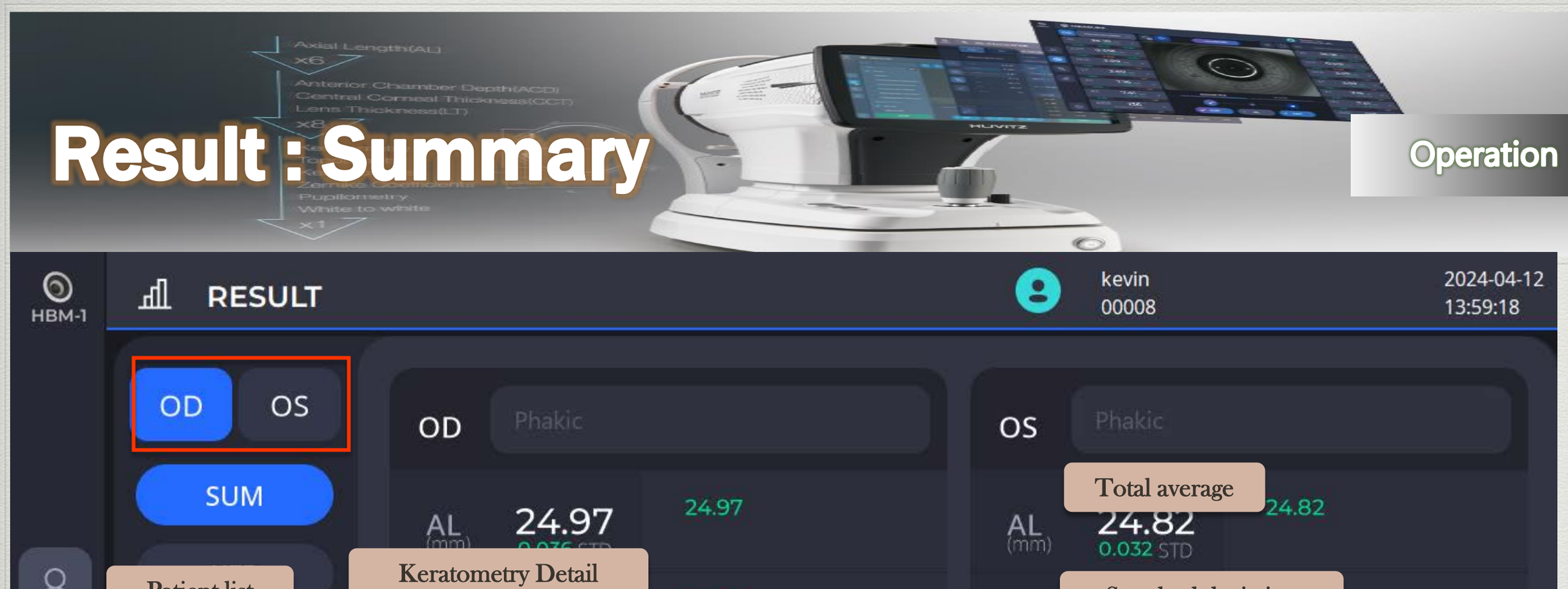
Auto Tracking | On | Off | Auto Retry

Auto Shoot | On | Off

Auto Shoot Detail | KER | AL | ANT

! We recommend manual Ker measurement by operator !

Result : Summary



Result : Keratometry

HBM-1

RESULT

00032

2024-02-14
15:45:21

OD | OS

SUM

KER

ZER

AL

ANT

PUPIL

WTW

CONT.FIT

MAP | PROFILE

5.00
5.11
5.23
5.36
5.49
5.63
5.77
5.92
6.08
6.25
6.43
6.62
6.82
7.03
7.26
7.50

SimK

SimK Meridian Keratoconus

K1(Rf)

38.82D(8.69mm) @6°

K2(Rs)

39.45D(8.55mm) @96°

CYL

-0.63D

K Max(R Min)

39.28D(8.59mm) @127°

K Avg

39.13D(8.62mm)

mm)

-0.94

Zoom Image

Eye Image ON/OFF

Map Image ON/OFF

Placido Ring Segmentation ON/OFF

EYE | MAP | RING

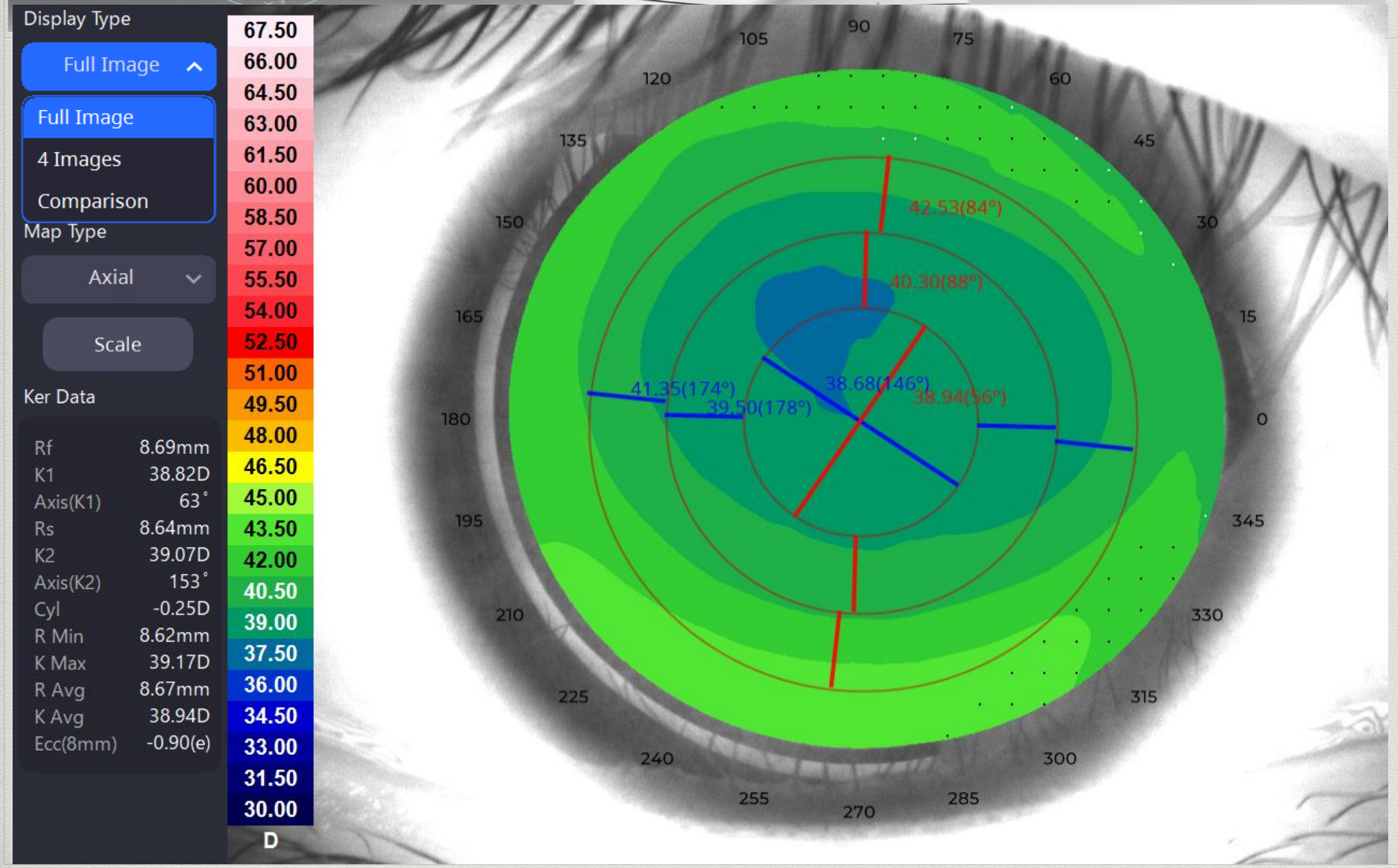
Axial

Axial, Tangential, Elevation, Refractive

SCALE

Select Color palette
Select Overlay

Result : Topography Zoom Image



Result : Topography 4Maps

appendix

Display Type

4 Images

Scale

Ker Data

Rf	8.69mm
K1	38.82D
Axis(K1)	63°
Rs	8.64mm
K2	39.07D
Axis(K2)	153°
Cyl	-0.25D
R Min	8.62mm
K Max	39.17D
R Avg	8.67mm
K Avg	38.94D
Ecc(8mm)	-0.90(e)

Axial

Elevation

Tangential

Refractive Power

Result : Topography Comparison

appendix

HBM-1

RESULT

00032

2024-02-14
15:45:21

SimK

K1(Rf)
38.82D(8.69mm) @6°

K2(Rs)
39.45D(8.55mm) @96°

CYL
-0.63D

K Max(R Min)
39.28D(8.59mm) @127°

K Avg
39.13D(8.62mm)

Ecc(8mm)
e -0.94

Meridian

2mm Zone

K1	8.78mm @ 12°
K2	8.60mm @ 102°
AVG	8.69mm
Cyl	-0.82D ax 12°

4mm Zone

K1	8.63mm @ 4°
K2	8.50 @ 94°
AVG	8.57mm
Cyl	-0.58D ax 4°

6mm Zone

K1	8.38mm @ 178°
K2	8.13mm @ 88°
AVG	8.26mm
Cyl	-1.25D ax 178°

2mm / 4mm / 6mm
3mm / 5mm / 7mm
Diopter / Millimeter
Changeable

Keratoconus

KPI (Keratoconus Prediction Index)
0.30

SAI (Surface Asymmetry Index)
1.06

DSI (Differential Sector Index)
3.47

r Index)
3.47

CSI (Central/Surrounding Index)
1.14

IAI (Irregular Astigmatism Index)
0.23

If the KPI is over 0.23,
It suspicious Keratoconus

Central steepening Keratoconus
Keratoconus Suspicious
Non-Keratoconus

Result

Axial Length(AL)
x6
Anterior Chamber Depth(ACD)
Central Corneal Thickness(CCT)
Lens Thickness(LT)
x8
Keratometry
Topography
Keratoconus
Zernike Coefficients
Pupilometry
White to white
x1

Operation

HBM-1

RESULT

Keratoconus Sample
00004

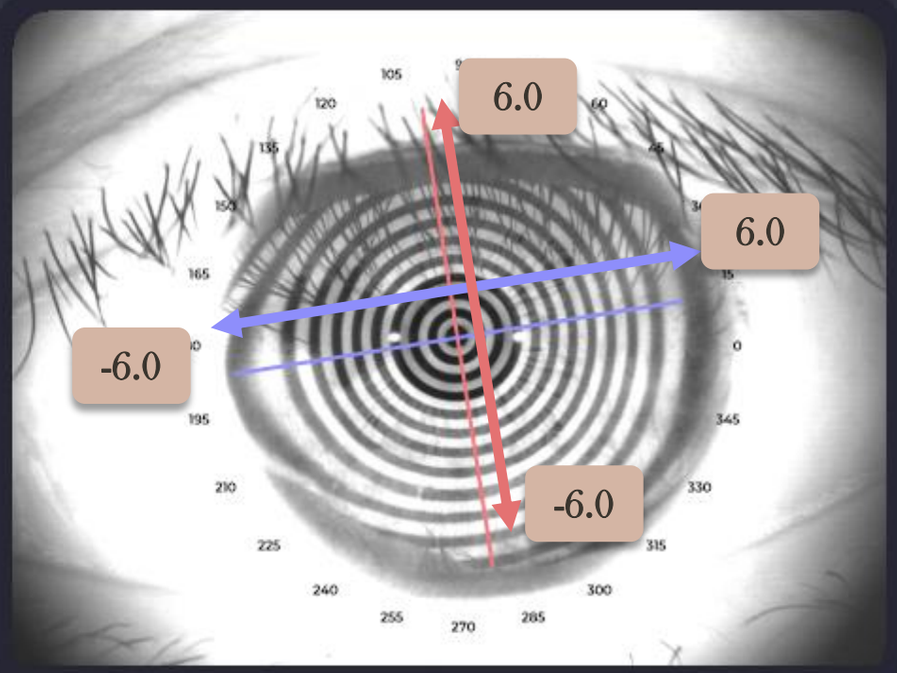
2023-04-27
12:08:18

OD
OS

SUM
KER
ZER
AL
ANT
PUPIL
WTW
CONT.FIT

MAP
PROFILE

Data Profiler



Steepest Meridian
99

Change Steep Axis

Flattest Meridian
9

Change Flat Axis

K-Value (Diopter)

Value

Differential

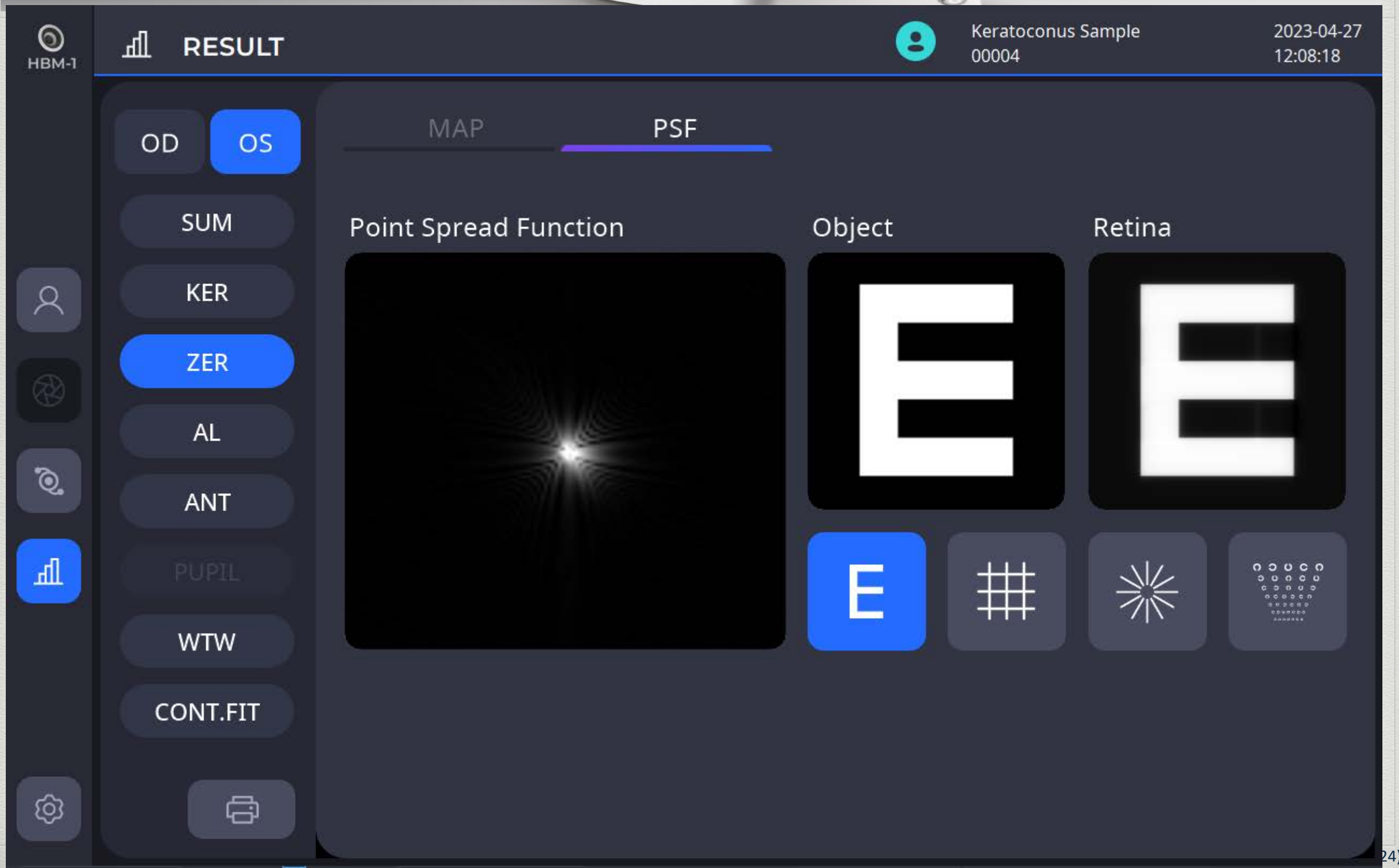
22)

Result: Zernike

Related with SPH, CYL

- Irregular astigmatism
- Corneal imbalance
- Size of pupil

Result: Zernike



Result

Operation

HBM-1

RESULT

송인석
00010

2023-10-13
14:46:27

OD | OS

SUM

KER

ZER

AL

ANT

PUP

WTW

CONT.FIT

DCM

Dense Cataract Mode

Analyze data with DCM algorithm

No.	AL
	26.89
	26.89
3	26.83
4	26.93
5	26.80
6	26.89

included

excluded

AVG 26.90

Axial Length 26.87 mm
0.022 STD

#1 | #2 | #3 | #4 | #5 | #6

Measured twice

No of Exam

Result

Operation

HBM-1

RESULT

송인석
00010

2023-10-13
14:46:27

OD | OS

SUM

KER

DCM

Dense Cataract Mode

Analyze data with DCM algorithm

No.	AL
	26.89
	26.89
3	26.83
	.93
	.80
6	26.89
	.90

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information

Language	English	
Device Name		
Sleep Time	Off	5 Min
Touch Keyboard	On	Off
Login Page	On	Off
Save Mode	Light	Raw

Caution !
If Setup – Save Mode : Light Mode
DCM mode not working
(Light Mode : Don't Save Raw data)

Caution !
Severe cataract may not come out on DCM Mode, which requires the use of A-Scan Ultrasonic Probe

26.87 mm
0.022 STD

#1 #2 #3
#4 #5 #6

Result

Axial Length(AL)
x6
Anterior Chamber Depth(ACD)
Central Corneal Thickness(CCT)
Lens Thickness(LT)
x8
Keratometry
Topography
Keratoconus
Zernike Coefficients
Pupilometry
White to white
x1

Operation

HBM-1

RESULT

00032

2024-02-14
15:45:21

OD OS

SUM

KER

ZER

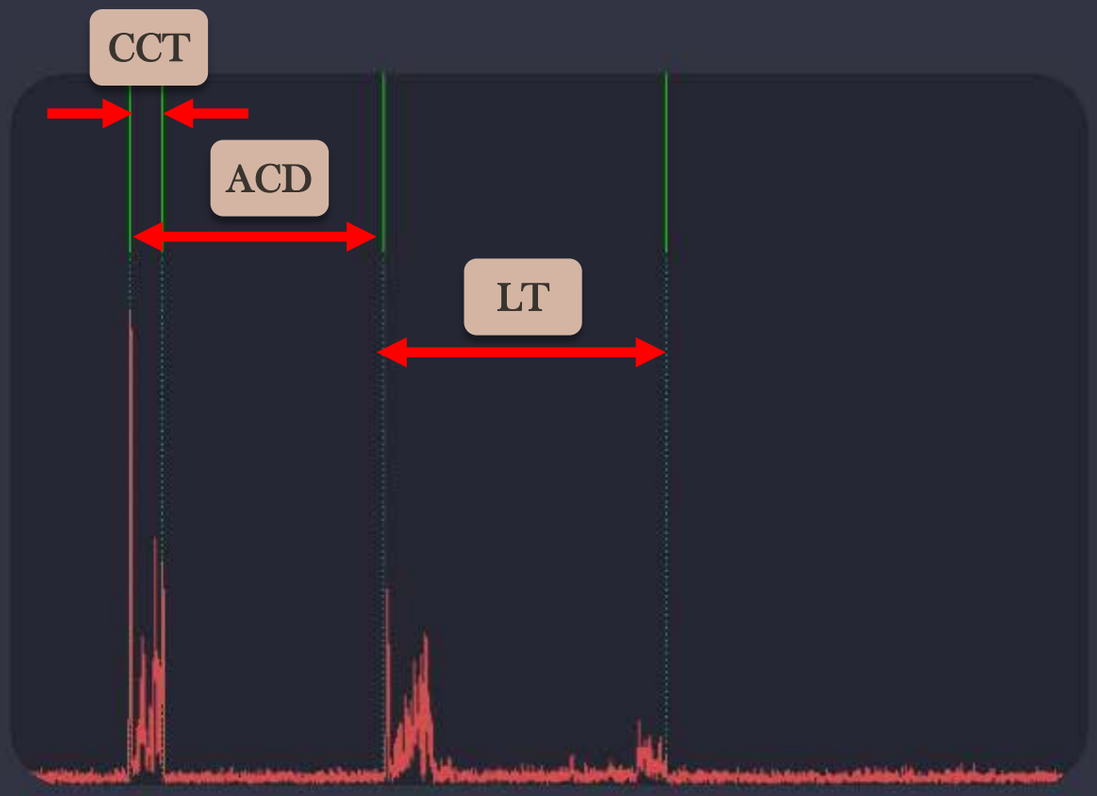
AL

ANT

PUPIL

WTW

CONT.FIT



Total AVG

CCT 0.450 mm
0.010 STD

ACD 3.48 mm
0.020 STD

LT 3.65 mm
0.030 STD

No.	CCT	ACD	LT
1	0.459	3.47	3.66
2	0.461	3.47	3.65
3	0.440	3.45	3.68
4	0.459	3.45	3.59
5	0.448	3.46	3.64
6	0.454	3.47	3.62
7	0.429	3.44	3.68
8	0.458	3.50	3.68
AVG	0.451	3.47	3.65

#1 #2 #3

#4 #5 #6

Result : Pupilometry

HBM-1

RESULT

Sook Choi
00032

2023-10-13
08:28:51

OD | OS

SUM

KER

ZER

AL

ANT

PUP

WTW

CONT.FIT

PUPIL | GRAPH

Dynamic

Dynamic : Photopic + Mesopic
Photopic : Daylight
Mesopic : Dark night

64/106

No / Total Frame

R.Center | Pupil | Grid | Rulers

VALUES

Average Diameter

Min Values	2.17mm
Max Values	5.13mm
Average	4.08mm
Std	0.789mm

Diameter

Diameter	4.53mm

Pupil Center Diff

X	-0.01mm
Y	-0.01mm

Time

Time	4.90

Result : Pupilometry

Result : Pupilometry

HBM-1

RESULT

Sook Choi
00032

2023-10-13
08:28:51

OD | OS

SUM

KER

ZER

AL

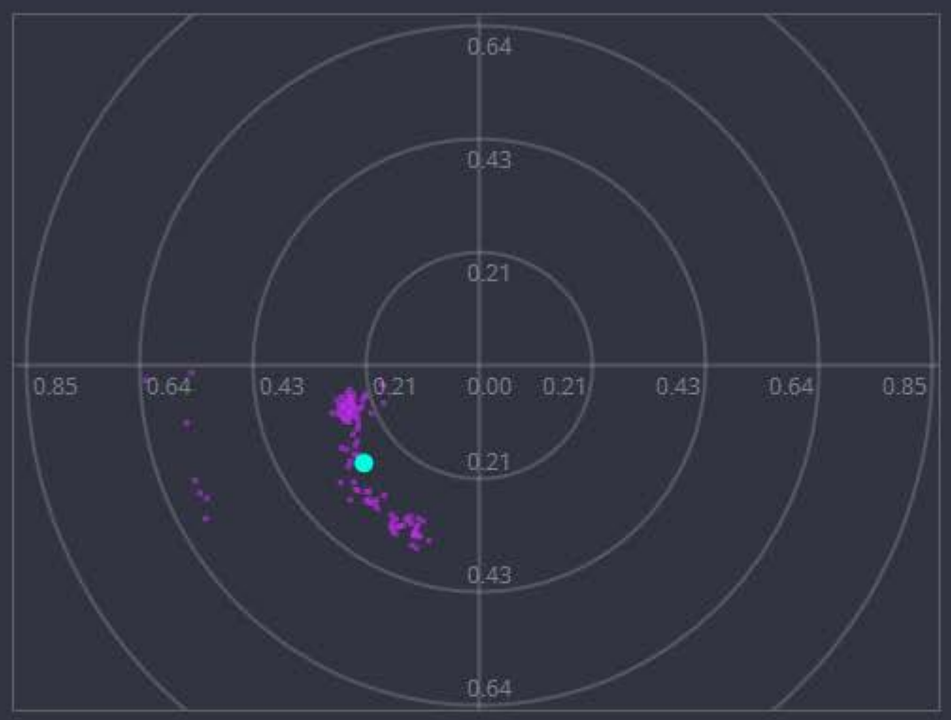
ANT

PUP

WTW

CONT.FIT

PUPIL | GRAPH



Latency | Decentration

DECENTRATION

Average Diameter

Min Values	2.17mm
Max Values	5.13mm
Average	4.08mm

Average Pupil Decentration

X	-0.24mm
Y	-0.17mm
Std Dev	0.12mm

Result

Axial Length(AL)
x6
Anterior Chamber Depth(ACD)
Central Corneal Thickness(CCT)
Lens Thickness(LT)
x8
Keratometry
Topography
Keratoconus
Zernike Coefficients
Pupilometry
White to white
x1

Operation

HBM-1

RESULT

Keratoconus Sample
00004

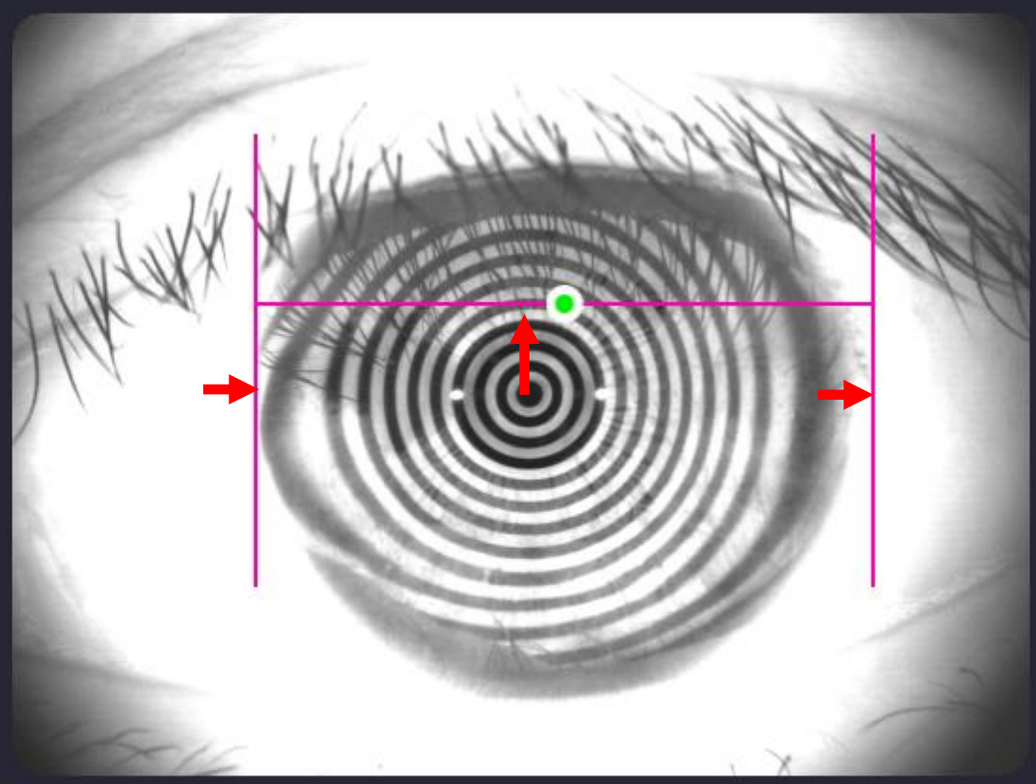
2023-04-27
12:08:18

OD
OS

SUM
KER
ZER
AL
ANT
PUPIL
WTW
CONT.FIT

Editable

EDIT



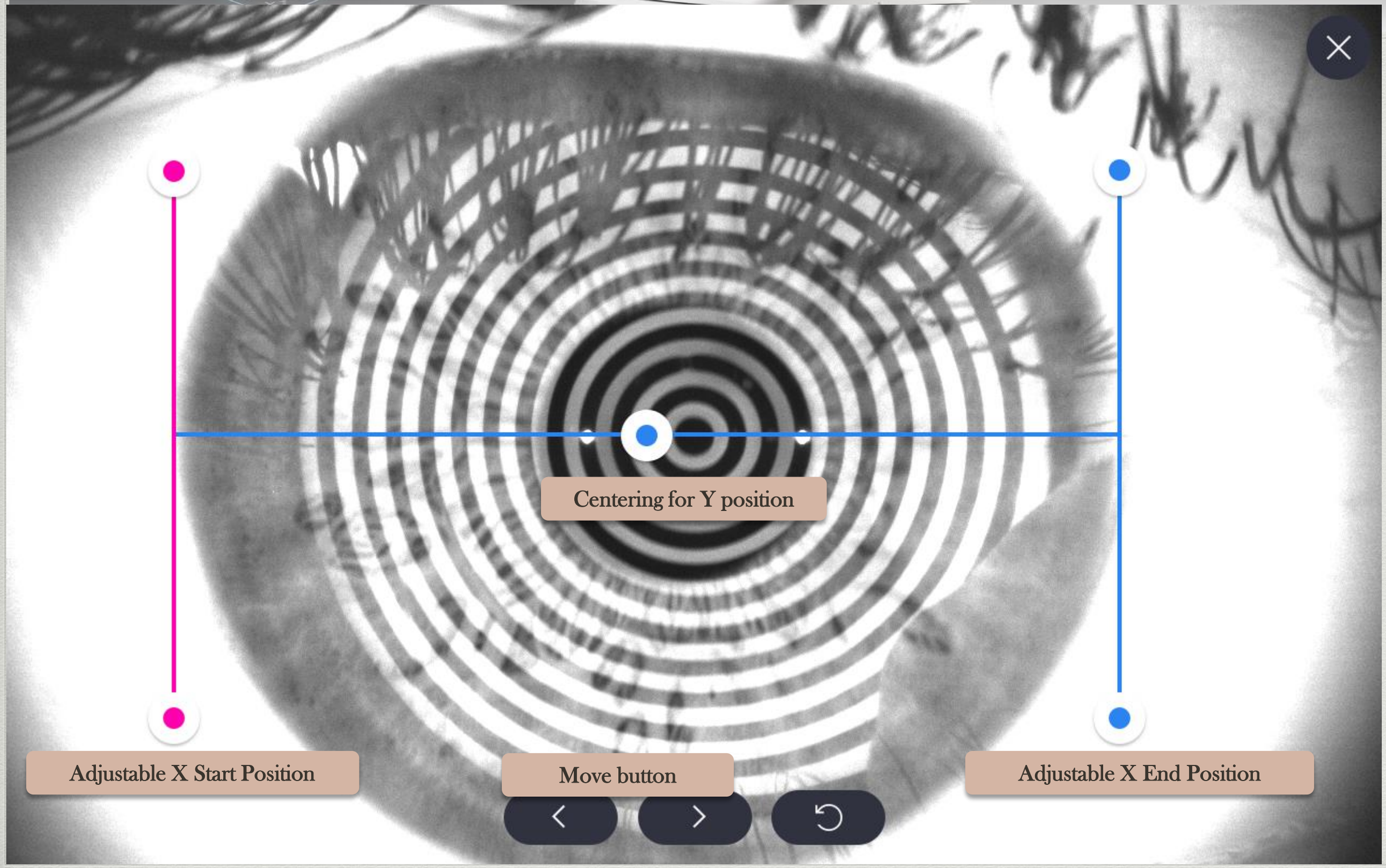
VALUES

Diameter
10.69mm

Decentration
X 0.61mm
Y -1.52mm

1)

Result: WhitetoWhite



Result: Contact Lens Fitting

Operation

HBM-1

RESULT

Myopia Management Sample
00001

2024-02-01
20:47:34

OD | OS

SUM

KER

ZER

AL

ANT

PUPIL

WTW

CONT.FIT

Simulation | Gallery

0 75 125 175 225 275 325 375 425 525 575 625 675 725 775 825 875 925 975 1000

Axial / Tangential Map ON/OFF

Lens Fitting Map ON

Axial | Map

Steep Axis Clearance

Flat Axis Clearance

800 600 400 200

-6.0 -5.0 -4.0 -3.0 -2.0 -1.0 0 1.0 2.0 3.0 4.0 5.0 6.0

Steep
Flat

Manufactuter

Please Select

Lens

Please Select

Set Parameter

Keratometry

Patient SimK

K1	42.48 @ 5°
K2	43.15 @ 95°
Cyl	-0.67 ax 5°

Lens Info

r0	7.85
Diameter	10.00
dr0	0.00
Ecc	0.30
r1	9.35
Width	1.00
dr1	0.00
Ecc	0.00

SAVE

Result: Contact Lens Fitting

Operation

HBM-1

Lens Parameters

2023-07-19
8:12

Base Curve

Curvature Radius(r0)	Diameter(mm)	Curvature Diff(dr0)	Eccentricity
7.99	10	0	0.3

Set a base curve

Pheriperal Curve 1

Curvature Radius(r1)	Width(mm)	Curvature Diff(dr1)	Eccentricity
9.49	1	0	0

Set the first peripheral

Pheriperal Curve 2

Curvature Radius(r2)	Width(mm)	Curvature Diff(dr2)	Eccentricity
0	0	0	0

Set the second peripheral

Pheriperal Curve 3

Set Parameter

Curvature Radius(r3		Curvature Diff(dr3)	Eccentricity
0	0	0	0

Set the third peripheral

Set a proper base and first curve

① Default

Cancel

② Apply

Result: Contact Lens Fitting

HBM-1

RESULT

Patient_2
00002

2023-07-19
15:18:12

OD | OS

SUM

KER

ZER

AL

ANT

PUP

WTW

CONT.FIT

Simulation | Gallery

0 75 125 175 225 275 325 375 425 525 575 625 675 725 775 825 875 925 975 1000

Simulated with a selected lens

Axial | Map

Manufactuter

JenaLens

Lens

Asph

Search

ABOGDT
ABOGVTP
ABOGTpri
Asph
Asph-Kera
AsphPri
Asph VTP
Jeclips
Jecl. RT/BT
Jecl. VT

1/8

7°
7°
7°
8.05
9.80
0.00
0.60
2.00
0.40
0.00
0.60

Result: Print Option

HBM-1

RESULT

2024-02-01
0:47:34

OD | OS

SUM

KER

ZER

AL

ANT

PUPIL

WTW

CONT.FIT

Transfer Data

Choose Where To Send Your Data.

HIIS-1	Dicom	Print
Send HIIS-1	Send DICOM	Send Printer

Biometry	OFF	OD/OS/OU/OFF
Topography	OFF	OD/OS/OU/OFF
Topo Map	Select	Axial / Tangential / Ref Power / Elevation
IOL	OU	OD/OS/OU/OFF
IOL List	IOL C. / Post R / Toric	OFF (Barrett Tab)

Cancel | OK

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

Select OD / OS

IOL Calculation | Post Refractive | Toric | Barrett

General IOL | Post Surgery | Toric IOL

Reset

(Optional) Include
Barrett Universal ll
Barrett Universal ll Toric
Barrett True K
Barrett True K Toric
Barrett Rx
(License Only)

Measurement (!)

Surgeon: Select Surgeon

Target: 0

AL	(!)	25.91		AMO		AMO	
CCT		0.447					
ACD	(!)	3.54		Tecnis 1 ZCB00		Tecnis 1 ZCB00	Tecnis 1 ZCB00
LT	(!)	3.70					
K1		38.73		SRK2		SRK2	SRK2
K2		39.16					
Cyl		-0.44		A = 119.600	19.28	A = 119.600	19.28
Axis		170					
WTW		11.83					

Warning (!)
Measurement – Manual
AL – DCM
ACD,LT – Aphakic / Pseudophakic

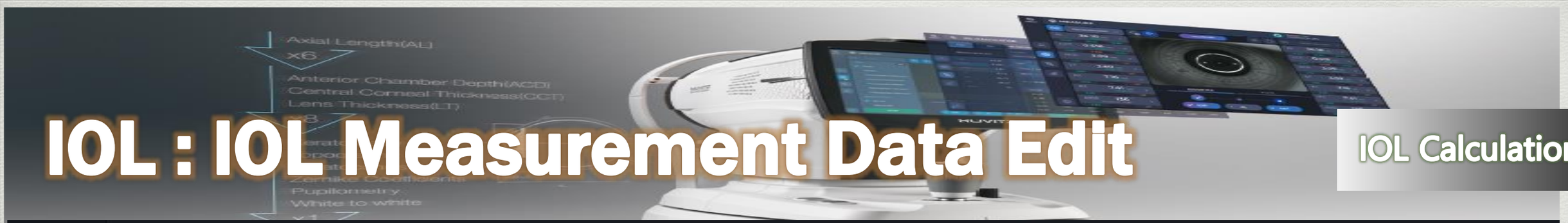
IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)	REF(D)
18.50	0.63	18.50	0.63	18.50	0.63	18.50	0.63
19.00	0.23	19.00	0.23	19.00	0.23	19.00	0.23
19.50	-0.17	19.50	-0.17	19.50	-0.17	19.50	-0.17
20.00	-0.57	20.00	-0.57	20.00	-0.57	20.00	-0.57
20.50	-0.97	20.50	-0.97	20.50	-0.97	20.50	-0.97

Edit Measurement

Print

IOL : IOL Measurement Data Edit

IOL Calculation



HBM-1

IOL CALCULATION

Patient_2
00002

2023-07-19
15:18:12

OD | OS

IOL Calculation | Post Refractive | Toric

Measurement Data Edit

Status: Measured

Measured
Manual

Biometry

AL	24.26	mm	CCT	0.547	mm		
ACD	3.11	mm	WTW	12.28	mm		
LT	3.61	mm					

Keratometry

K1	8.15	mm	Index	1.3375	
K2	7.94	mm	Unit	mm	
		°			

All data is editable in ‘Manual’ status

Reset | Cancel | OK

20.50	0.34	21.00	0.33	20.50	0.43	20.00	0.51
21.00	0.00	21.50	-0.02	21.00	0.09	20.50	0.16
21.50	-0.34	22.00	-0.37	21.50	-0.24	21.00	-0.20
22.00	-0.69	22.50	-0.72	22.00	-0.58	21.50	-0.57

IOL : General IOL

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Reset

Measurement

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Surgeon: 2

Target: -1.0

Input target diopter after surgery

Manufacturer

Lens Model

Formula

License Only

Selected Lens lens constants / Ideal IOL Diopter

The closest IOL diopter to the input target

AMO		AMO		AMO		AMO	
Tecnis 1 ZCB00				CeeOn 911A		ReZoom NXG1	
Holladay	LF = 1.936	21.04		pACD = 5.420	21.08	A = 118.500	19.43
				IOL(D)	REF(D)	IOL(D)	REF(D)
				20.00	-0.24	18.50	-0.25
			-0.60				
21.00	-0.96	21.00	-0.97	21.00	-0.94	19.50	-1.05
21.50	-1.32	21.50	-1.35	21.50	-1.30	20.00	-1.45
22.00	-1.69	22.00	-1.73	22.00	-1.66	20.50	-1.85

SRK2
SRK/T
HofferQ
Haigis
Holladay
Barrett Universal II

IOL : IOL Post Ref

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Next Page

Reset

Measurement (!)

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Surgeon: Select Surgeon

LT: 3.68

Keratorefractive Surgery Information

Correction Type: Myopic

Myopic
Hyperopic

Type: PRK

Unknown
RK
PRK
LASIK
LASEK

Formulas Available

Camellin Calossi | Shammas No History

Select formulas to be used

Camellin Calossi

SIRC: 0

SIRC (Surgically Induced Refractive Change)
"Rx Change"
Example :
Before refractive surgery : SPH -4D CYL -2 ax 180 -> Preop SEQ = -5D
After refractive surgery : SPH -0D CYL -1 ax 180 -> Postop SEQ = -0.5D
SIRC = (-5D) – (-0.5D) = -4.5D

IOL : IOL Post Ref

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Reset

Measurement (!)

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Surgeon: 2

Target: -1.0

Input target diopter after surgery

Manufacturer			
AMO	AMO	AMO	AMO
Lens Model			
ReZoom NXG1	n 911A	808C	808C
Formula			
Camellin-Calossi	Camellin-Calossi	Shammas No Hist...	Camellin-Calossi
A = 118.400 22.51	A = 118.300 22.39	A = 118.000 22.10	A = 118.000 22.04

Selected Lens lens constants / Ideal IOL Diopter

IOL(D)	REF(D)			IOL(D)	REF(D)	IOL(D)	REF(D)
21.50	-0.28			21.00	-0.13	21.00	-0.26
22.00	-0.64	22.00	-0.72				
22.50	-0.99	22.50	-1.08	22.00	-0.92	22.00	-0.97
23.00	-1.34	23.00	-1.43	22.50	-1.32	22.50	-1.34
23.50	-1.70	23.50	-1.79	23.00	-1.73	23.00	-1.70

The closest IOL diopter to input target

Result: IOL Toric

Result: IOL Toric (Select Target REF)

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

When selected IOL REF diopter , next button is available

Measurement

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Surgeon	Target	SIA	IL
1	-1	1	35

Input target diopter after surgery

Input SIA (Surgically induced astigmatism)

Input IL (Incision on axis)

HumanOptics			
TORICA -aAY Stan...	TORICA -aAY Stan...	TORICA -aAY Stan...	TORICA -aAY Stan...
Barrett Univ. II Toric	SRK/T	SRK/T	SRK/T
A = 118.700	20.04	A = 118.700	20.04	A = 118.700	20.04

- SRK/T
- HofferQ
- Haigis
- Holladay
- Barrett Univ. II Toric

IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)	REF(D)
19.00	-0.22	19.00	-0.22	19.00	-0.22
19.50	-0.59	19.50	-0.59	19.50	-0.59
20.00	-0.48				
20.50	-0.86	20.00	-0.97	20.00	-0.97	20.00	-0.97
21.00	-1.24	20.50	-1.35	20.50	-1.35	20.50	-1.35
21.50	-1.63	21.00	-1.73	21.00	-1.73	21.00	-1.73

Select a lens

Result: IOL Toric (Select Target CYL)

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Previous Page (Set REF Power)

Reset

Measurement (!)

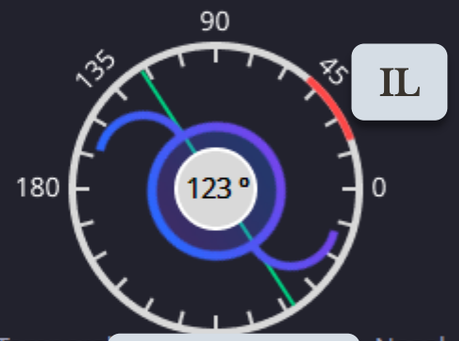
AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Formula	Target	SIA	IL
Barrett Univ. II Toric	-1	1	35

Ideal Cylindrical Power

IOL Ideal Toricity 1.16

Toric Lense Information



Lens Axis

Available Toric Lenses

Lens	Res Astigm
n.a.	n.a.
Non Toric	
TORICA -aA Special	-0.14D @ 33°
TORICA -aA Special	-0.22D @ 123°
TORICA -aA Special	-0.59D @ 123°

The closest IOL toricity to the ideal toricity

Select a lens

Model	Spherical Equivalent Power (D)	Cylinderical Power (D)
TORICA -aA Special	20.50 Selected REF power	1.00 Selected CYL Power

Spherical Power (D)	Axis Of Placement (°)	Expected Refraction
20.00 Selected CYL Power	123 Lens Axis	-0.79D -0.14D @ 33°

Expected result

IOL: IOL (Barrett)

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Surgeon 2

Barrett Formulas: Universal II

- Universal II
- Universal II Toric
- True K
- True K Toric
- RX

Target 1

Measurement (!)

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

AMO		AMO		AMO			
Tecnis 1 ZCB00		Tecnis 1 ZCB00		Tecnis 1 ZCB00			
LF = 2.041	18.44	LF = 2.041	18.44	LF = 2.04			
IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)			
17.50	1.64	17.50	1.64	17.50	1.64	17.50	1.64
18.00	1.30	18.00	1.30	18.00	1.30	18.00	1.30
18.50	0.95	18.50	0.95	18.50	0.95	18.50	0.95
19.00	0.60	19.00	0.60	19.00	0.60	19.00	0.60
19.50	0.25	19.50	0.25	19.50	0.25	19.50	0.25

Formula
Universal ll – General IOL
Universal ll Toric – Toric IOL
True K – Post Ref IOL
True K – Post Ref Toric IOL
Rx – Exchange IOL / Piggyback IOL

IOL: IOL (Barrett True K / True K Toric)

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Measurement (!)

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Surgeon 2

Barrett Formulas True K

Target -1

Input target diopter after surgery

History: Myopic Lasik

Pre-Lasik Ref -5.0

Post-Lasik Ref -1.0

TRUE K : 38.5 / Corr. -3.73 D

Myopic Lasik
Hyperopic Lasik
Radial Keratotomy
Keratoconus

Post Surgery history

AMO		AMO		AMO	
CeeOn 911A		Tecnis 1 ZCB00		Tecnis 1 Z 00	
LF = 1.726 TK LF = 1.880	21.60	LF = 2.041 TK LF = 2.200	22.	LF = 2.04 TK LF = 2.200	22.15

IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)	REF(D)
21.00	-0.55	21.50	-0.52	2	
21.50	-0.93	22.00	-0.89	2	
22.00	-1.31	22.50	-1.26	22	
22.50	-1.69	23.00	-1.64	23.00	-1.64

Input Pre Surgery / Post Surgery Ref diopter when nohistory ref diopter
If input is 'Blank', Correction diopter is calculated by measurement data
TRUE K – Be used in formula
It changed depending on the surgery type

IOL: IOL (Barrett True K / True K Toric)

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

Surgeon: 2

Barrett Formulas: True K

Measurement (!)

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Target: -1

Input target diopter after surgery

History: Myopic Lasik

Pre-Lasik Ref: -5.0

Post-Lasik Ref: -1.0

TRUE K : 38.5 / Corr. -3.73 D

- Myopic Lasik
- Hyperopic Lasik
- Radial Keratotomy
- Keratoconus

AMO		AMO				AMO	
CeeOn 911A		Tecnis 1 ZCB00				Tecnis 1 ZCB00	
LF = 1.726 TK LF = 1.880	21.60	LF = 2.041 TK LF = 2.200	22.15	LF = 2.041 TK LF = 2.200	22.15	LF = 2.041 TK LF = 2.200	22.15
IOL(D)	REF(D)			IOL(D)	REF(D)	IOL(D)	REF(D)
20.50	-0.18			21.00	-0.16	21.00	-0.16
21.00	-0.55	21.50	-0.52				
21.50	-0.93	22.00	-0.89	22.00	-0.89	22.00	-0.89
22.00	-1.31	22.50	-1.26	22.50	-1.26	22.50	-1.26
22.50	-1.69	23.00	-1.64	23.00	-1.64	23.00	-1.64

Selected Lens lens constants / Ideal IOL Diopter

The closest IOL diopter to the input target

IOL: IOL (Barrett True K / True K Toric)

IOL Calculation

HBM-1

IOL CALCULATION

Myopia Management Sample
00001

2024-02-13
10:05:57

OD | OS

IOL Calculation | Post Refractive | Toric | Barrett

When selected IOL REF diopter , next button is available

Surgeon 2

Barrett Formulas True K Toric

Measurement

AL	25.91
CCT	0.447
ACD	3.54
LT	3.70
K1	38.73
K2	39.16
Cyl	-0.44
Axis	170
WTW	11.83

Target	SIA	IL	History	Pre Lasik Ref	Post Lasik Ref
-1	1	45	Myopic Lasik		

TRUE K : 38.31 / Corr. -5.28 D

Input target diopter after surgery

Input SIA (Surgically induced astigmatism)

Input IL (Incision on axis)

			HumanOptics				
ARTIS T PL E		TORICA -aA Special		TORICA -aA Special		TORICA -aA Special	
LF = 2.270 TK LF = 2.540	22.97	LF = 1.726 TK LF = 2.000	21.99	LF = 1.726 TK LF = 2.000	21.99	LF = 1.726 TK LF = 2.000	21.99

Selected Lens lens constants / Ideal IOL Diopter

IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)	REF(D)	IOL(D)	REF(D)
22.00	-0.30			21.00	-0.27	21.00	-0.27
22.50	-0.66	21.50	-0.64				
23.00	-1.02	22.00	-1.01	22.00	-1.01	22.00	-1.01
23.50	-1.39	22.50	-1.39	22.50	-1.39	22.50	-1.39
24.00	-1.76	23.00	-1.77	23.00	-1.77	23.00	-1.77

The closest IOL diopter of the input target

IOL : Comparison IOL Formula

IOL Calculation

	Short (AL < 22.0mm)	Normal 22.0 ~ 26.0mm	Long AL > 26.0mm	
Older Generation Formulas	Holladay I		W-K adjustment*	Normal Anterior Segment Anatomy
	Hoffer Q			
	SRK / T		W-K adjustment*	
	a0, a1 & a2 optimized	Haigis only a0 optimized	Specific constants for meniscus lenses required**	All Anterior Segment Types
	Holladay II		W-K adjustment*	
	Olsen			
Newer Generation Formulas	Barrett II			

*Wang, L., Shirayama, M., Ma, X.J., Kohnen, T., Koch, D.D. Optimizing intraocular lens power calculations in eyes with axial lengths above 25.0 mm. J Cataract Refract Surg. 2011;37:2018–2027.
Abulafia, A., Barrett, G.D., Rotenberg, M., Kleinmann, G., Levy, A., Reitblat, O., Koch, D.D., Wang, L., Assia, E.I., Intraocular lens power calculation for eyes with an axial length greater than 26.0 mm: Comparison of formulas and methods. J Cataract Refract Surg. 2015;41:548-556.

* Scientifically the W-K adjustment is controversial since it depends on the IOL design whether the adjustment is required or not.

** Care has to be taken in eyes with very long AL.
Special constants are needed for IOLs that change from symmetrical to asymmetrical geometry at certain power thresholds.
This can lead to significant principal plane shifts and as a result to different ELP positions.

IOL : Comparison IOL Formula

IOL Calculation

Formula	ME±SD (D)	Mean AE	Median AE	Eyes within±0.50 D prediction error (%)	
Short axial length (*n*=89)					
Haigis	−0.080±0.428	0.344	0.280		75.3
Holladay 1	−0.097±0.421	0.334	0.295	Holladay is suitable for Short AL	77.5
SRK/T	−0.028±0.446	0.352	0.320		71.9
Barrett universal II	0.215±0.439	0.398	0.340		66.3
Medium axial length (*n*=432)					
Haigis	−0.126±0.439	0.360	0.285		73.6
Holladay 1	0.005±0.416	0.326	0.270		78.9
SRK/T	0.057±0.446	0.350	0.280		75.7
Barrett universal II	0.184±0.392	0.337	0.278	Barrett U ll is suitable for Long AL	76.6
Long axial length (*n*=69)					
Haigis	−0.093±0.458	0.365	0.340		68.1
Holladay 1	0.306±0.521	0.500	0.410		56.5
SRK/T	0.064±0.464	0.386	0.350		69.6
Barrett universal II	0.079±0.406	0.327	0.300		78.3

Formula	ME±SD (D)	Mean AE	Median AE	Eyes within ±0.50 D prediction error (%)	
Low power (*n*=84)					
Haigis	−0.020±0.394	0.318	0.288		77.4
Holladay 1	0.259±0.511	0.454	0.370	Barrett U ll is suitable for Low IOL Power	63.1
SRK/T	0.055±0.490	0.400	0.358		67.9
Barrett universal II	0.126±0.372	0.308	0.280		78.6
Medium power (*n*=436)					
Haigis	−0.133±0.478	0.362	0.283		73.6
Holladay 1	−0.013±0.412	0.323	0.270		78.9
SRK/T	0.025±0.437	0.342	0.280		76.6
Barrett universal II	0.164±0.391	0.332	0.278		77.3
High power (*n*=70)					
Haigis	−0.123±0.486	0.388	0.298	Holladay is suitable for High IOL Power	65.7
Holladay 1	−0.021±0.462	0.371	0.310		74.3
SRK/T	0.157±0.457	0.378	0.340		68.6
Barrett universal II	0.310±0.475	0.471	0.418		58.6

ME, mean prediction error; SD, standard deviation of mean prediction error; AE, absolute prediction error; D, diopter

IOL : Comparison IOL Formula

Spherical Power Prediction True K TK

60 Eyes:	True K TK	True K	Haigis L	Haigis TK	Shammas
Mean Error	-0.04	-0.17	-0.45	-0.12	-0.36
STDev	0.51	0.57	0.65	0.67	0.62
MAE	0.41	0.47	0.67	0.56	0.59
Med AE	0.34	0.37	0.61	0.50	0.57
</=% 0.5 D	70.0%	63.3%	31.7%	50.0%	46.7%
</=% 0.75 D	86.7%	85.0%	60.0%	71.7%	66.7%
</=%1.00 D	96.7%	88.3%	83.3%	80.0%	86.7%

Table 5. Percentage of eyes within ±0.50 D and ±1.00 D from the target refraction in Groups A and B.

	Percentage			
	Group A (n = 58)		Group B (n = 30)	
Formula/Method	Within ±0.50 D	Within ±1.00 D	Within 0.50 D	Within ±1.00 D
Adjusted Atlas	60.3	87.9	—	—
Masket	60.3	84.5	—	—
Modified Masket	53.4	86.2	—	—
Wang/Koch/Maloney	43.1	81.0	—	—
Shammas	55.2	82.8	50.0	80.0
Haigis-L	48.3	81.0	46.7	76.7
True-K	67.2	94.8	63.3	80.0
Average	58.6	91.4	46.7	83.3

Group A –
Pre/Post REF Data exist
Group B –
Nohistory Pre/Post REF Data

Field Test : Israel

1) Measured Data

Name	Side	HBM-1						Lenstar-900					
		AL	CCT	ACD	LT	K1	K2	AL	CCT	ACD	LT	K1	K2
A**	R	22.36	563	2.729	4.08	46.07	46.83	22.35	550	3.22	4.04	45.81	46.57
	L	22.32	538	2.766	4.06	45.97	46.37	22.25	551	3.25	4.02	45.79	46.27
R**	R	23.36	518	3.12	4.26	45.15	46	23.35	527	3.55	4.23	44.93	45.75
	L	23.32	553	3.148	4.245	45.14	45.76	23.39	533	3.57	4.25	45.33	45.87
P**	R	22.37	557	3.5	3.63	45.86	46.9	22.36	548	3.96	3.63	45.82	47.16
	L	22.4	561	3.56	3.58	46.11	47.24	22.35	549	4	3.64	45.97	47.38
Y**	R	22.57	527	3.21	3.83	44.62	45.86	22.53	527	3.64	3.83	44.86	45.81
	L	22.81	523	3.27	3.83	44.82	45.75	22.71	526	3.68	3.82	44.84	45.67
S**	R	22.16	506	2.93	3.73	45.19	46.86	22.2	511	3.32	3.81	45.06	46.72
	L	22.09	526	2.97	3.82	44.62	47	21.96	511	3.36	3.82	45.06	47.69
G**	R	24.31	546	2.85	4.28	45.44	45.58	24.39	529	3.28	4.34	45.04	45.45
	L	24.08	545	4.2	0.89	44.52	46.44	24.16	535	4.65	0.83	45.14	45.74

2) Lens prescription

HBM			Holladay	Hoffer Q	Barrett	Lenstar-900		
22.0(-0.19)	22.0(-0.24)	22.0(-0.32)	0	0	0	22.0(-0.25)	22.0(-0.3)	22.0(-0.41)
21.5(-0.17)	21.5(-0.25)	21.5(-0.3)	-0.5	0	0	22.0(-0.37)	21.5(-0.1)	21.5(-0.18)
22.5(-0.08)	22.5(-0.08)	23.0(-0.16)	-0.5	-0.5	0	23.0(-0.39)	23.0(-0.39)	23.0(-0.16)
22.0(-0.36)	22.0(-0.4)	22.0(-0.09)	0	0	-0.5	22.0(-0.1)	22.0(-0.13)	22.5(-0.22)
23.5(-0.38)	23.5(-0.36)	23.0(-0.25)	0	0	0	23.5(-0.35)	23.5(-0.33)	23.0(-0.27)
24.0(-0.36)	24.0(-0.32)	23.5(-0.14)	0.5	0.5	0	23.5(-0.12)	23.5(-0.08)	23.5(-0.36)
16.5(-0.25)	16.0(-0.24)(	16.5(-0.27)	0	0	0	16.5(-0.18)	16.0(-0.16)	16.5(-0.23)
17.0(-0.14)	17.0(-0.39)	17.0(-0.26)	0	0.5	---	17(-0.21)	16.5(-0.17)	??

Field Test : India

Comparison Of Biometry Measures Between HBM-1 And Lenstar-900				
Parameter	HBM-1 Mean SD	Lenstar Mean SD	Diff	95% LoA
Axial Length	24.04±1.40	24.07±1.39	-0.03	`-0.08 to + 0.22
CCT	537.88±29.97	533.85±29.34	4.02	`-18.4 to +9.46
ACD	3.32±0.45	3.44±0.55	-0.12	`-0.38 to + 0.64
LT	4.32±0.45	4.13±0.47	0.18	`-0.83 to + 0.47
Flat Meridian(K1)	43.47±2.53	43.16±2.39	0.3	`-1.57 to + 0.95
Steep Meridian(K2)	44.28±2.59	44.21±2.65	0.06	`-0.95 to + 0.82
White to White	11.87±0.45	11.78±0.60	0.09	`-1.04 to + 0.87

Field Test : Romania

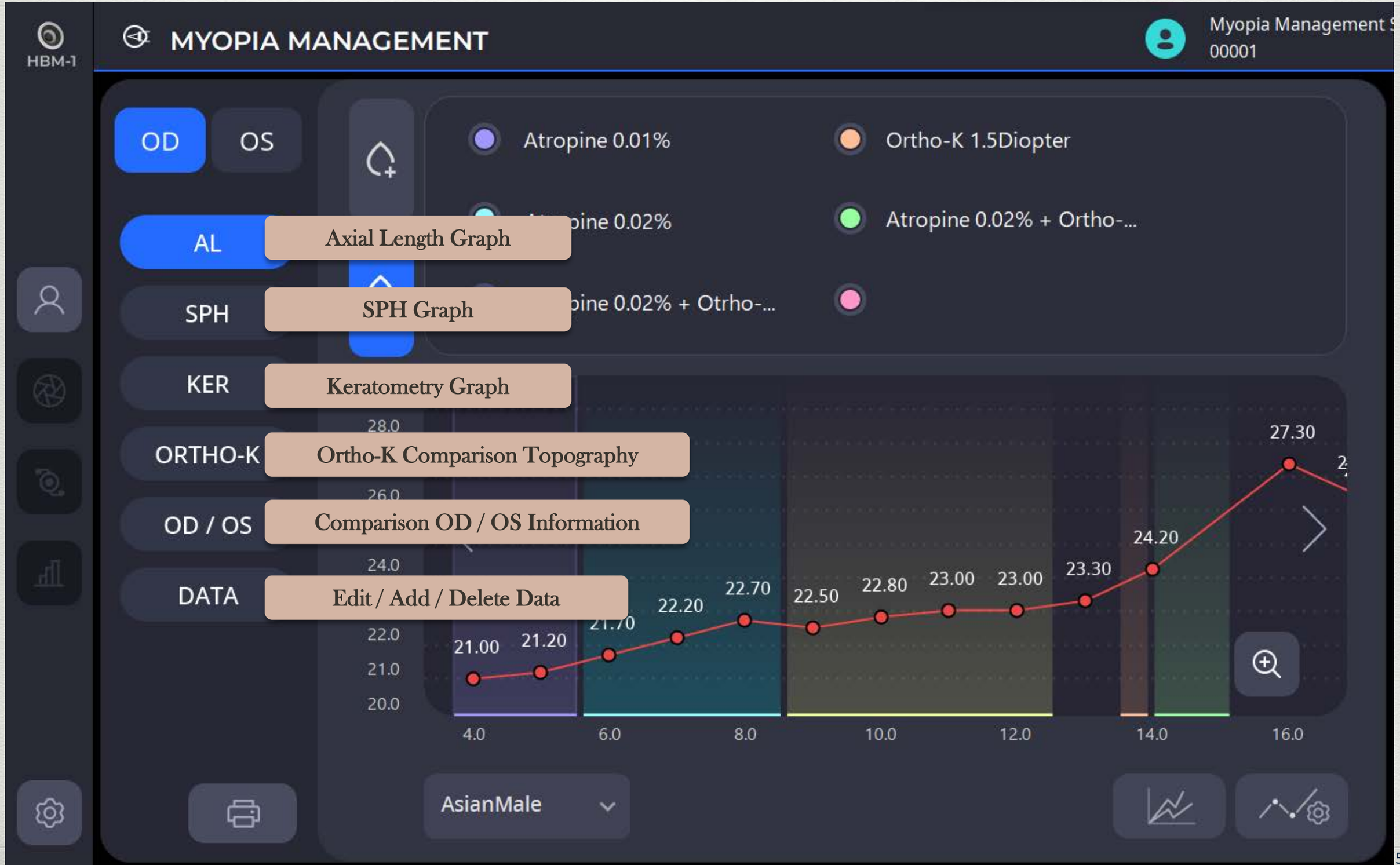
Comparison Of Biometry Measures Between HBM-1 And PentaCam-AXL				
Parameter	HBM-1 Mean SD	PentaCam Mean SD	Diff	95% LoA
Axial Length	23.56±0.85	23.52±0.88	0.04	`-0.04 to + 0.13
CCT	533±43.95	532±33.67	1.5	`-18.4 to +9.46
ACD	3.25±0.23	3.14±0.24	0.11	`-0.06 to + 0.15
Flat Meridian(K1)	43.93±1.27	43.58±1.21	0.35	`-0.12 to + 0.80
Steep Meridian(K2)	44.69±1.53	44.19±1.41	0.5	`-0.24 to + 1.23

Field Test : Romania

Comparison Of Biometry Measures Between HBM-1 And Optopol biometer				
Parameter	HBM-1 Mean SD	Optopol Mean SD	Diff	95% LoA
Axial Length	23.56±0.85	23.52±0.88	0.04	`-0.08 to + 0.16
CCT	533±43.95	548±35.67	14.6	`-42.7 to +14.3
ACD	3.25±0.23	3.16±0.24	0.09	`-0.02 to + 0.16
LT	4.56±0.34	4.62±0.36	-0.06	`-0.18 to + 0.07

Myopia management

Myopia



Myopia management

Myopia

HBM-1

MYOPIA MANAGEMENT

Myopia Management S
00001

Add Comment

OD

OS

AL

SPH

KER

ORTHO-K

DATA

Atropine 0.01%

Ortho-K 1.5Diopter

Atropine 0.02%

Atropine 0.02% + Ortho-...

Atropine 0.02% + Otrho-...

Show Comment List

Moving one Year ago

Moving one Year After

Axial Length(mm)

29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0

Data
(It is only one data per month)

21.00
21.20
21.70
22.20
22.70
22.50
22.80
23.00
23.00
23.30
24.20
27.30

Zoom

4.0
6.0
8.0
10.0
12.0
14

Years(Y)

Graph Setting

AsianMale

Axial Length Trend by Race

Trend ON / OFF

Myopia management

Myopia management

HBM-1

MYOPIA MANAGEMENT

Myopia Management
00001

Graph Scale

Start Year > 2.0

End Year

Start Year 4

End Year 16

Show Value ON OFF

Value overlay ON/OFF

Cancel OK

The difference between the start year and the end year must set at least 2.0

OD / O

DATA

Showing Myopia Trend Percentile

27.30
24.20
23.30
23.00
23.00
22.80
22.50
22.70
22.20
21.70
21.20
21.00

Myopia 95%
Myopia 90%
Myopia 75%
Myopia 50%
Myopia 25%
Myopia 10%
Myopia 5%
Myopia 3%

22.0
21.0
20.0

4.0 6.0 8.0 10.0 12.0 14.0 16.0

AsianFemale

Myopia management

HBM-1

MYOPIA MANAGEMENT

Myopia Management S
00001

OD | OS

AL

SPH

KER

ORTHO-K

OD / OS

DATA

3 / 5 / 7 , 2 / 4 / 6 meridian changeable

2024-02-13 10:05

Before Topography wearing Ortho-k Treatment

DIFF. MAP

2024-02-01 20:47

After Topography wearing Ortho-k Treatment

3mm Zone
K-AVG 8.70mm
Cyl -0.26 @ 146

5mm Zone
K-AVG 8.46mm
Cyl -0.80 @ 178

7mm Zone
K-AVG 8.05mm
Cyl -1.18 @ 174

Map Scale
ISO

ISO / American / Basic

Interval
0.1 | 0.2

interval value on map

Map Type
Axial | Tangential

3mm Zone
K-AVG 7.87mm
Cyl -0.51 @ 11

5mm Zone
K-AVG 7.90mm
Cyl -0.64 @ 9

7mm Zone
K-AVG 8.08mm
Cyl -0.68 @ 14

Myopia management

Myopia

HBM-1

MYOPIA MANAGEMENT

Myopia Management S
00001

OD | OS

AL

SPH

KER

ORTHO-K

OD / OS

DATA

2023-09-19

OD

Select OD Data

-5.00D

25.90mm

45.00D

2023-08-08

OS

Select OS Data

-1.00D

25.30mm

40.27D

Axial Length

Unit : mm

25.90mm

25.30mm

20 21 22 23 24 25 26 27 28 29 30 31

Keratometry

Unit : D

45.00D

40.27D

35 36 37 38 39 40 41 42 43 44 45 46

Refractive Error

Unit : D

-5.00D

-1.00D

2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9

Myopia management

Myopia

HBM-1

MYOPIA MANAGEMENT

Myopia Management S
00001

OD | OS

Raw Data

Add | Delete

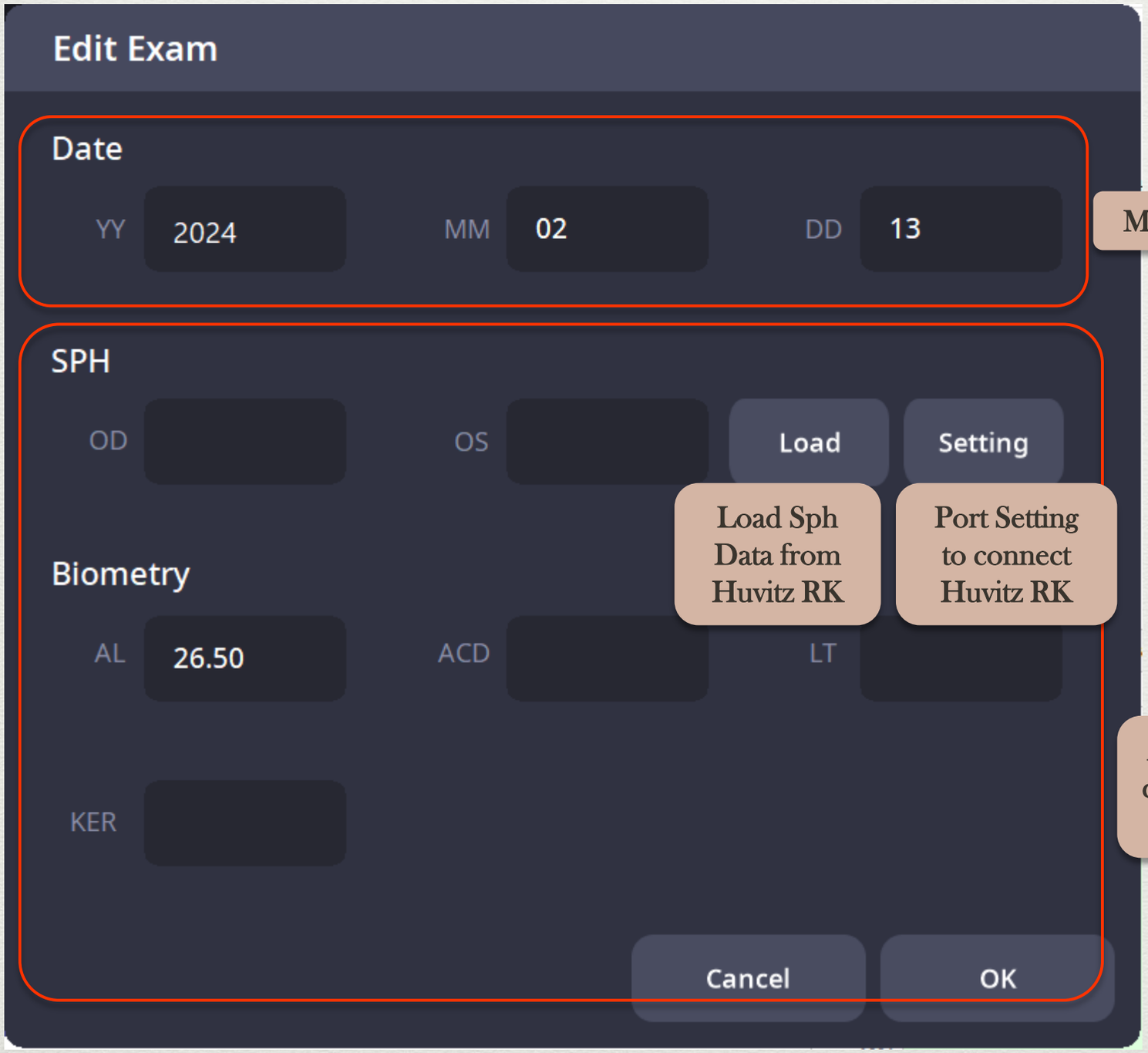
Add Data | Delete Data

AL | SPH | KER | ORTHO-K | OD / OS | DATA

DATE	RX SE(D)	AL (mm)	ACD (mm)	LT (mm)	KER (D)
19 - 09 - 2023	-5.00	25.90	3.47	4.00	45.00
19 - 09 - 2023		26.45	3.74	3.82	42.80
08 - 08 - 2023	-4.75	27.50	3.00	3.00	45.00
08 - 08 - 2022	-4.75	27.30	3.00	3.00	44.00
08 - 08 - 2021	-4.50				
08 - 08 - 2020	-3.50	24.20	3.00	3.00	38.00
08 - 08 - 2019	-1.75	23.30	3.00	3.00	38.00

1 / 3

Myopia management



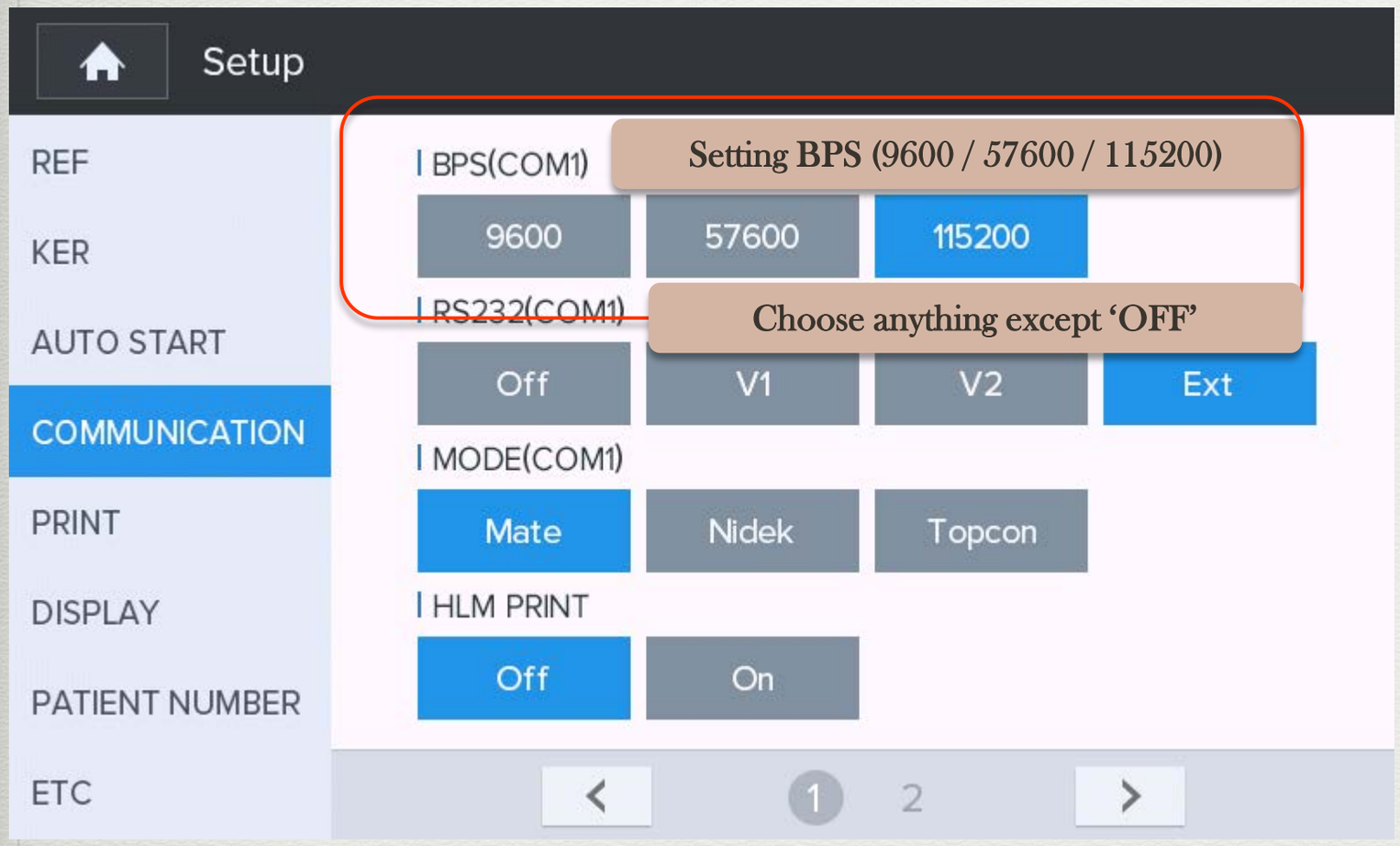
Must be Input

Load Sph Data from Huvitz RK

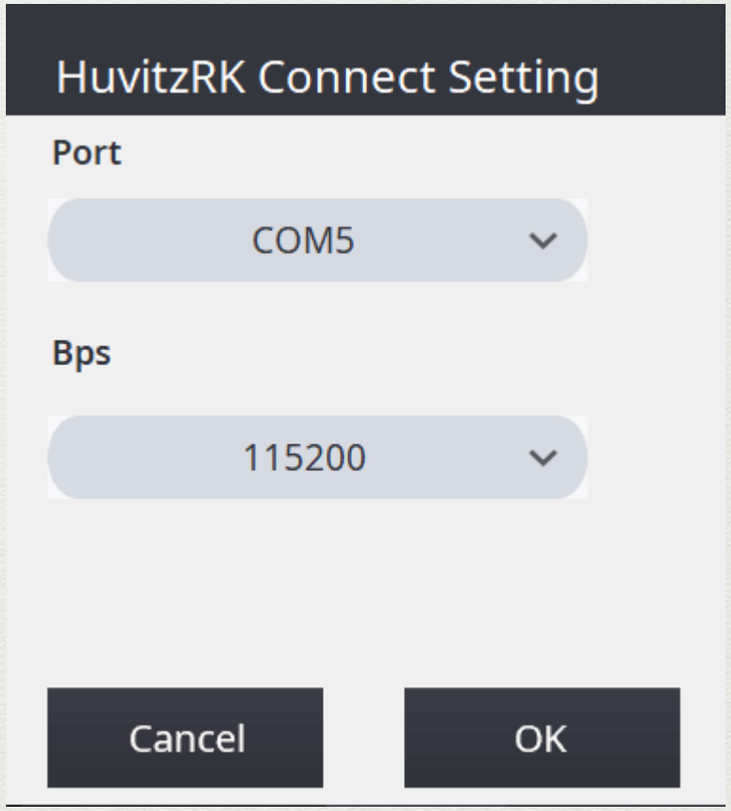
Port Setting to connect Huvitz RK

At least one data must be input

Myopia management

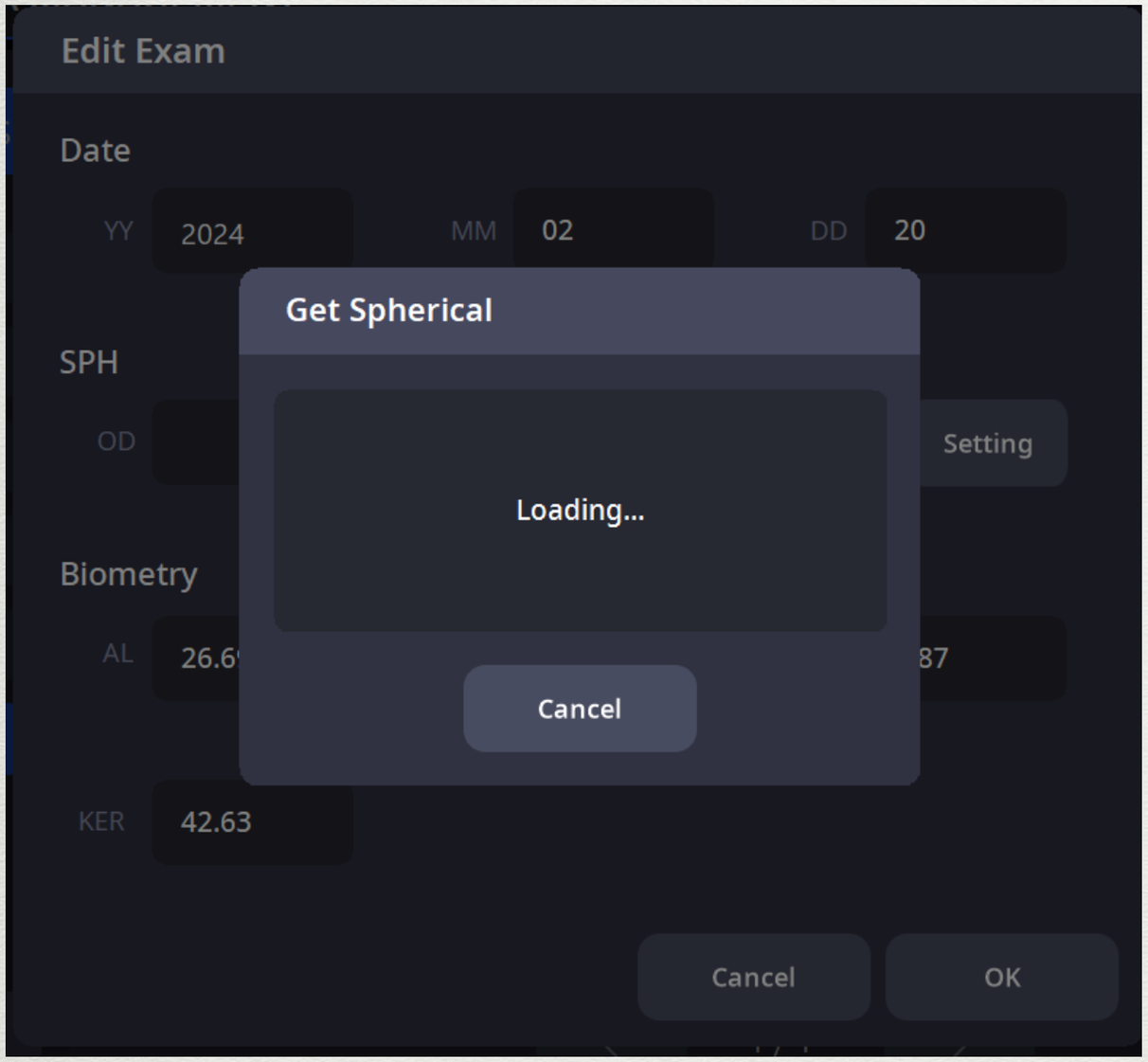


Set a Huvitz RK

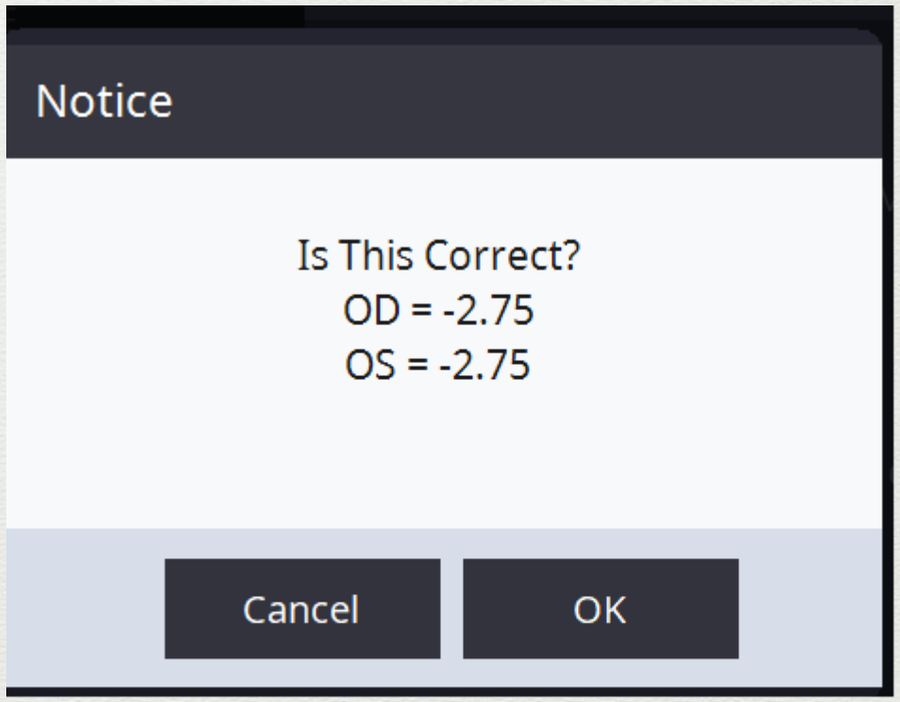


Set a HBM-1

Myopia management



Press Load



HRK Press Transfer
And SPH Data Received

Myopia management

HBM-1

MYOPIA

Myopia Management S
00001

OD

OS

AL

SPH

KER

ORTHO-K

OD / OS

DATA

Delete

LT (mm)

KER (D)

4.00 45.00

3.82 42.80

3.00 45.00

3.00 44.00

3.00 38.00

Myopia Report

Print AL / KER / REF Graph

Graph: AL | KER | REF

Graph Option: Start Year 2.0 ~ End Year 18.0

Myopia Trend: Asian Male

Editable Start year / end year

Select AL Trend (OFF / ON)

OrthoK: ON | OFF

Before: 2024-02-13 10:05

After: 2024-02-01 20:47

Select Before Topo / After Topo

Compare: ON | OFF

Before: 2023-09-19

After: 2023-08-08

Select OD / OS Data

Cancel

OK

Myopia management

Huvitz

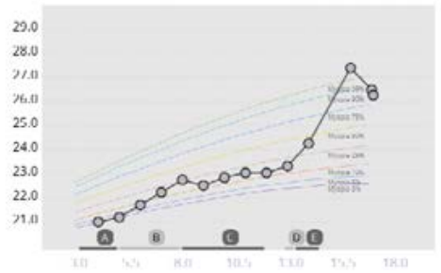
Name: Patient_1_myopia
ID: 00001
Date of Birth: 2006-07-31

Gender: Male
Physician:
Operator:

Exam Date:
Exam Time:

MYOPIA MANAGEMENT REPORT (AXIAL LENGTH)

OD

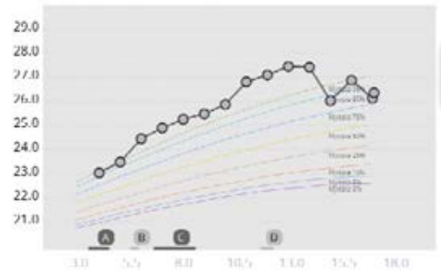


Myopia Treatment

- A Atropine 0.01%
- B Atropine 0.02%
- C Atropine 0.02% + Ortho-K 2.0D
- D Ortho-K 1.5Diopter
- E Atropine 0.02% + Ortho-K Toric
- F

Date	AL(mm)	SE(D)	KER(D)
19-09-2023	25.90 (0.50)	-5.00 (0.25)	45.00 (+4.25)
08 08 2023	26.40 (-0.90)	-4.75 (0.00)	40.75 (-3.25)
08 08 2022	27.30 (+3.10)	-4.75 (1.25)	44.00 (+6.00)
08-08-2020	24.20 (+0.90)	3.50 (-1.75)	38.00 (0.00)
08-08-2019	23.30 (+0.30)	-1.75 (0.25)	38.00 (+2.50)
08 08 2018	23.00 (0.00)	-1.50 (-0.25)	38.80 (-0.50)

OS



Myopia Treatment

- A Atropine 0.01%
- B Atropine 0.01%
- C Atropine 0.02% + Ortho-K 1D
- D Lasik Surgery
- E
- F

Date	AL(mm)	SE(D)	KER(D)
08-08-2023	25.30 (1.48)	-4.75 (2.00)	40.27 (2.87)
08 08 2022	26.78 (+0.82)	-2.75 (-1.08)	43.14 (+1.16)
08 08 2021	25.96 (1.35)	-1.67 (+1.33)	41.98 (+0.53)
08-08-2020	27.31 (-0.04)	3.00 (-0.80)	41.45 (-1.28)
08-08-2019	27.35 (+0.35)	-2.20 (0.95)	42.73 (+3.93)
08 08 2018	27.00 (+0.30)	-1.25 (+0.25)	(-3.84)

Comments	Signature	Device / SW info.

Data Graph + Trend

Comment

6 recent data

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information
Dicom

Language: English

Device Name: Reset

Sleep Time: Off | 5 Min | 10 Min | 30 Min

Touch Keyboard: On | Off

Login Page: On | Off

Save Mode: Light | Raw

Contact Lens: Import | Export

Light – Total 1 Measure -> 20MB
But, Not supported DCM
(But it can be done before saving)

Raw – Total 1 Measure -> 60MB

Default | < | 1 / 1 | > | Cancel | OK

User Setting (Import Contact Lens)

HBM_ContactLensFitting_Database.csv - Excel

검색

파일 홈 삽입 페이지 레이아웃 수식 데이터 검토 보기 도움말

잘라내기 복사 서식 복사 — 붙여넣기 — 클립보드

맑은 고딕 11 가 가 — 글꼴

자동 줄 바꿈 병합하고 가운데 맞춤 — 맞춤

일반 — 표시 형식

조건부 서식 표 서식

표준 나쁨 보통 좋음 계산 메모 설명 텍스트 셀 확인 — 스타일

데이터가 손실될 수 있음 이 통합 문서를 쉼표로 구분된 형식(.csv)으로 저장하면 일부 기능이 손실될 수 있습니다. 기능을 유지하려면 Excel 파일 형식으로 저장하세요. 다시 표시 안 함 다른 이름으로 저장...

R13

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Manufacturer	Model	Type	Base_r0	Base_Diameter	Base_Ecc	Periphery_r1	Periphery_b1	Periphery_r2	Periphery_b2	Periphery_r3	Periphery_b3	Periphery_r4	Periphery_b4
2	Appenz.	EX AS	Normal	8.45	9.8	0.6	11.95	0.4	0	0	0	0	0	0
3	Appenz.	EX MK	Normal	8.45	9.8	0.6	8.93	0.96	11.95	0.4	0	0	0	0
4	Falco	FAE	Normal	8.45	10	0.6	12.05	0.5	0	0	0	0	0	0
5	Falco	FAS	Normal	8.45	10	0.6	12.05	0.5	0	0	0	0	0	0
6	Galifa	ModulaA	Normal	8.45	9.8	0.6	11.25	0.4	10.7	0	0	0	0	0
7	Galifa	ModulaM	Normal	8.45	9.8	0.6	9.29	0.57	11.25	0.5	0	0	0	0
8	Hetych	Aktiv Comf.	Normal	8.45	10	0.6	9.05	0.65	12	0.2	0	0	0	0
9	Hetych	Aktiv Top	Normal	8.45	10	0.6	12	0.4	12	0	0	0	0	0
10	Hetych	Bifo Aktiv	Normal	8.45	10	0.6	9.05	0.6	12	0.2	0	0	0	0
11	JenaLens	ABOGDT	Normal	8.5	9.8	0.45	12	0.4	12	0	0	0	0	0
12	JenaLens	ABOGVTP	Normal	8.5	9.8	0.45	12	0.4	12	0	0	0	0	0
13	JenaLens	ABOGTpri	Normal	8.5	9.8	0.45	12	0.4	12	0	0	0	0	0
14	JenaLens	Asph	Normal	8.45	9.8	0.6	12	0.4	12	0	0	0	0	0
15	JenaLens	Asph-Kera	Normal	8.25	9.8	0.9	12	0.4	12	0	0	0	0	0
16	JenaLens	AsphPri	Normal	8.45	9.8	0.6	12	0.4	12	0	0	0	0	0
17	JenaLens	Asph VTP	Normal	8.45	9.8	0.6	12	0.4	12	0	0	0	0	0
18	JenaLens	Jeclips	Normal	8.3	9.8	0.8	0	0	0	0	0	0	0	0
19	JenaLens	Jecl. RT/BT	Normal	8.3	9.8	0.8	0	0	0	0	0	0	0	0
20	JenaLens	Jecl. VT	Normal	8.3	9.8	0.8	0	0	0	0	0	0	0	0
21	MPG&E	compact AS	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
22	MPG&E	compact ASAB	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
23	MPG&E	compact ASVPT	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
24	MPG&E	compact CX	Normal	8.5	9.8	0.45	0	0	0	0	0	0	0	0
25	MPG&E	compact CXVP	Normal	8.5	9.8	0.45	0	0	0	0	0	0	0	0
26	MPG&E	compact CXV	Normal	8.5	10	0.45	0	0	0	0	0	0	0	0
27	MPG&E	compact EZ	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
28	MPG&E	compact EZV	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
29	MPG&E	compact EZM	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
30	MPG&E	compact EZMVT	Normal	8.45	10	0.6	0	0	0	0	0	0	0	0
31	PRECI	AZ	Normal	8.6	9.8	0.3	10	0.2	10	0.2	0	0	0	0
32	PRECI	AZTE	Normal	8.6	9.8	0.3	10	0.2	10	0.2	0	0	0	0
33	PRECI	BAZ	Normal	8.6	9.8	0.3	10	0.2	10	0.2	0	0	0	0

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Infomation

Patient List Size	50	100	150	200	500	
Today List	On	Off				
PID Prefix						Reset
PID Postfix						Reset
PID Number Length	5	6	7	8		
Data Format	YMD	MDY	DMY			
Staff Management	Physicians					

Set the name of a doctor which is used to define IOL setting

1 / 1

Cancel

OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information
Dicom

Auto Tracking: On / Off
Auto Retry: On / Off
Measure automatically until 3 times
If data is not successful
Auto Shoot: On / Off
Auto Shoot Detail: KER / AL / ANT
Live Signal: On / Off
Map Type: REF Power / Elevation
Measurement Scale: Diopter / Millimeter
Axial / Tangential
Keratometry Display Area: 2-4-6mm / 3-5-7mm
Meridian Unit
Cylinder Notation: Negative / Positive

Default
1 / 3
Cancel
OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information
Dicom

Asphericity: e | SF | p | Q

Types of Asphericity

Measurement Mode: KER | AL | ANT

Axial Length Offset	0	Axial Length Std	0.045
K1 Offset	0	Evaluation Red	2
K2 Offset	0	Evaluation Yellow	3
		Evaluation Green	4

AL settings

Default | < | 2 / 3 | > | Cancel | OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information
Dicom

CCT Offset	0	CCT Std	0.015
ACD Offset	0	ACD Std	0.05
LT Offset	0	LT Std	0.06
		Evaluation Red	3
		Evaluation Yellow	4
		Evaluation Green	5

ANT settings

Default | 3 / 3 | Cancel | OK

User Setting

SETUP

System

Patient

Measure

Connectivity

Report

IOL

Infomation

Auto Data Transfer — On | Off | Transfer data when saving

HIIS-1 Server IP — hoct.huvitz.com — Reset

HIIS-1 Server Port — 8080 — Reset

1 / 1

Cancel

OK

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Infomation

Report Logo	C:¥Users¥Huvitz¥Desktop¥ta¥pupil2.png	...	Reset	
Organization	Test	Reset		
Auto Export	On	Off		
Auto Export Folder	D:¥HBM_Export_Report	...	Reset	
Export List	Biometery	Topography	IOL	
Export TopoMap	Axial	Tangential	Elevation	Ref Power

1 / 1

Cancel OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information
Dicom

Physician 1

Choose a physician from 1 .. 6

IOL Calculation

IOL Lens Editor Open

Open IOL Editor

IOL Default

Factory initialization

Target Refraction 0.00

Manufacturer	AMO	AMO	AMO	AMO
Model	Tecnis 1 ZCB...	Tecnis 1 ZCB...	Tecnis 1 ZCB...	Tecnis 1 ZCB...
Formula	SRK2	SRK2	SRK2	SRK2

Default

1 / 3

Cancel

OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Infomation

Physician 1

Choose a physician from 1 .. 6

IOL Lens Editor Open

Open IOL Editor

Post Refractive IOL

Target Refraction 0.00

Manufacturer	AMO	AMO	AMO	AMO
Model	Tecnis 1 ZCB...	Tecnis 1 ZCB...	Tecnis 1 ZCB...	Tecnis 1 ZCB...
Formula	Shammas N...	Shammas N...	Camellin-Cal...	Camellin-Cal...

2 / 3

Cancel OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Infomation

Physician: 1

Choose a physician from 1 .. 6

IOL Lens Editor: Open

Open IOL Editor

Toric

Target Refraction: 0.00

Manufacturer	HOYA	HOYA	HOYA	HOYA
Model	iSert Toric 351	iSert Toric 351	iSert Toric 351	iSert Toric 351
Formula	Haigis	Barrett Univ....	Holladay	SRK/T

3 / 3

Cancel

OK

User Setting

User Setup

SETUP

System
Patient
Measure
Connectivity
Report
IOL
Information
Dicom

S/W Version v1.1.0-Pre(2023_02_13_1000)

Organization Select NewUser Password Delete

~01-01-0001 Extend NewAdmin

License Barrett

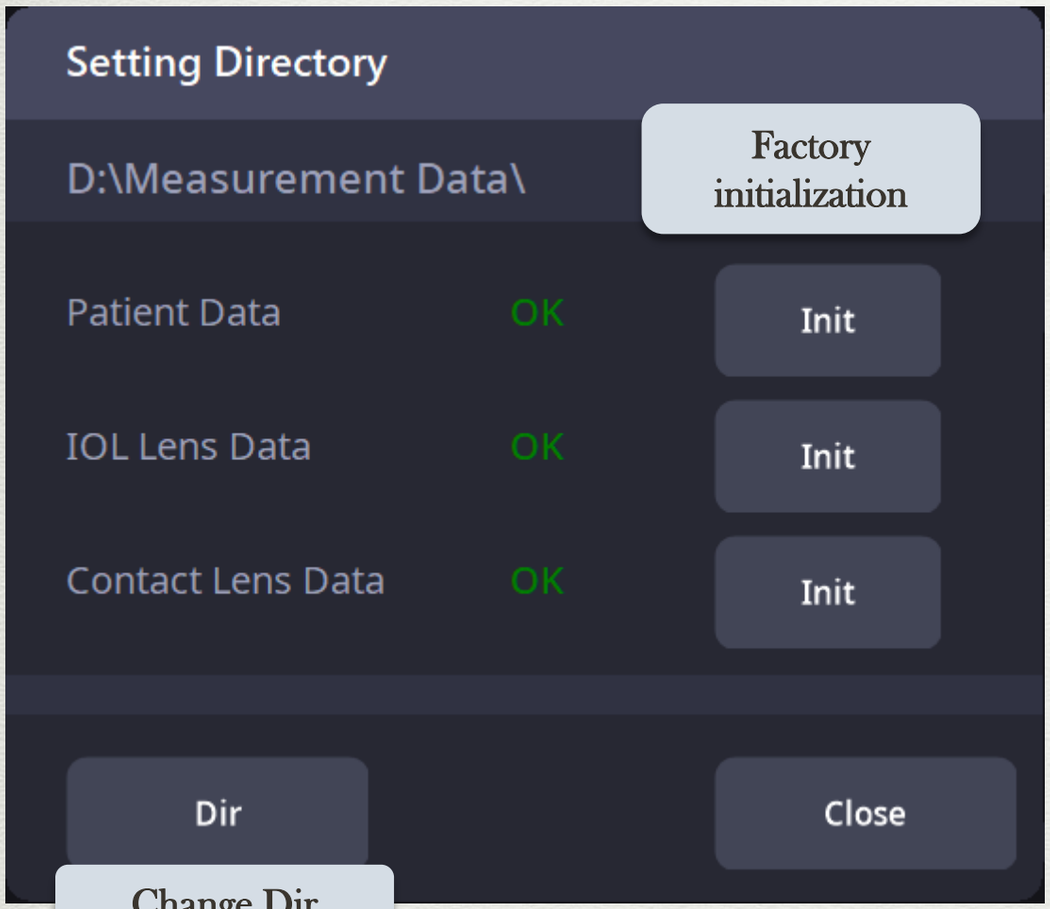
Serial Number 1BM00023E0006

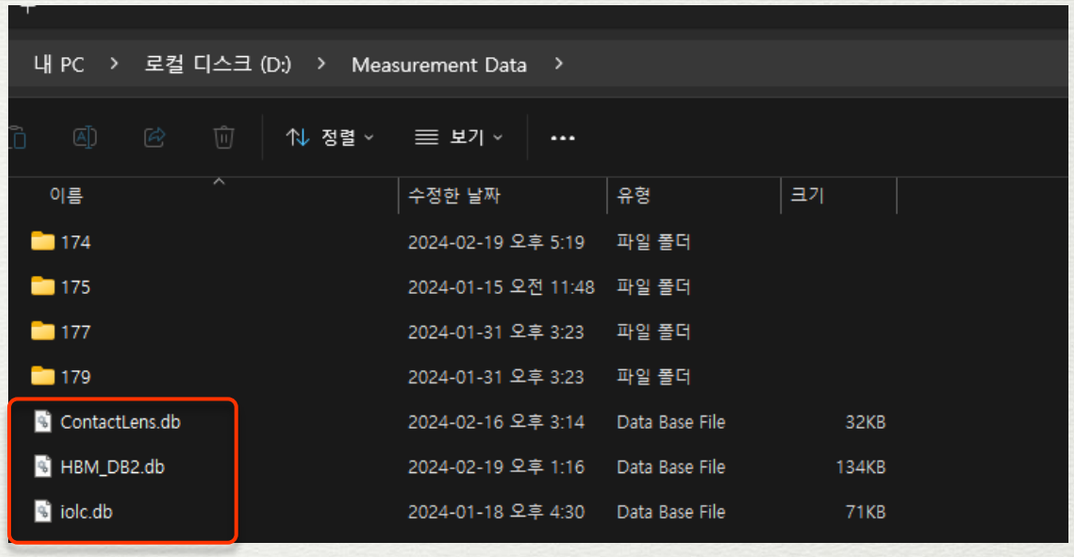
Storage D:\Measurement Data\ Change Directory Backup Data ... Backup

88.89% 103.53 GB / 931.50 GB

Default 1 / 1 Cancel OK

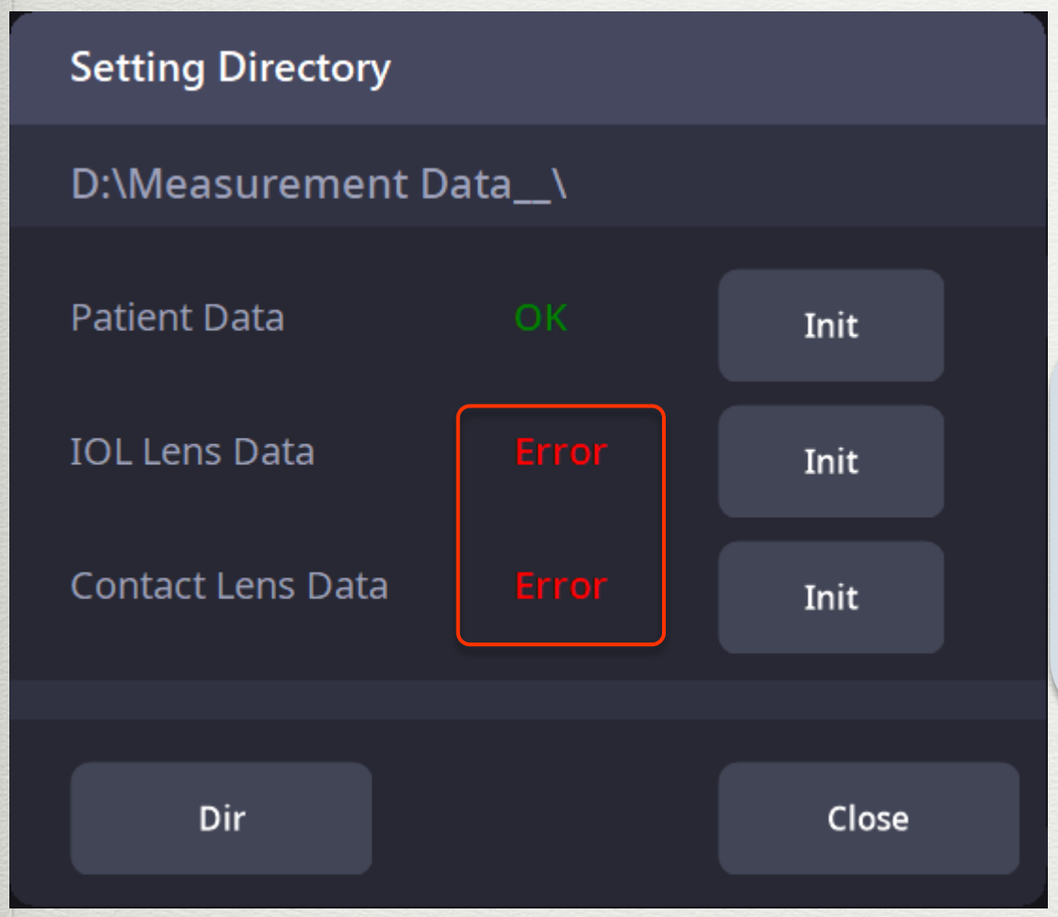
User Setting (Change Directory)



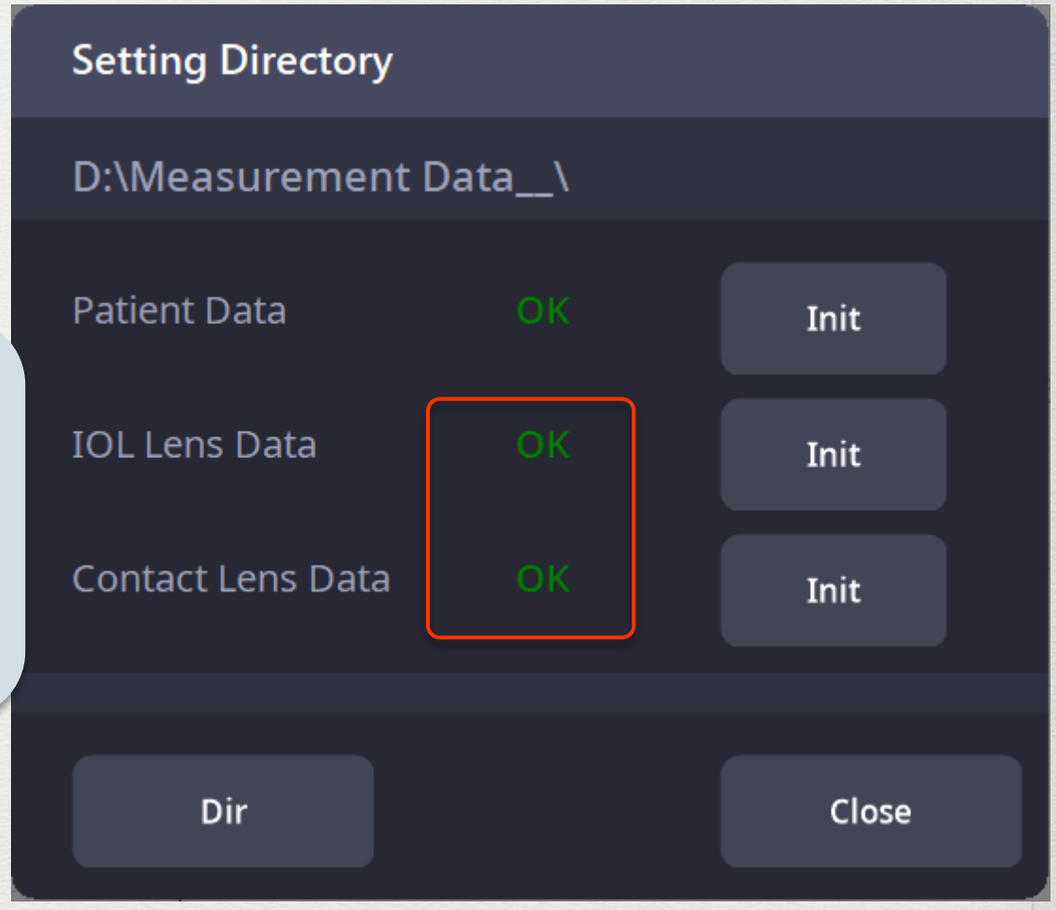


Caution !
When you change the path, database files must have in that path

User Setting (Change Directory)



If database file is damaged, click 'Init' button to initialize it. But this data will be in a factory initialization state



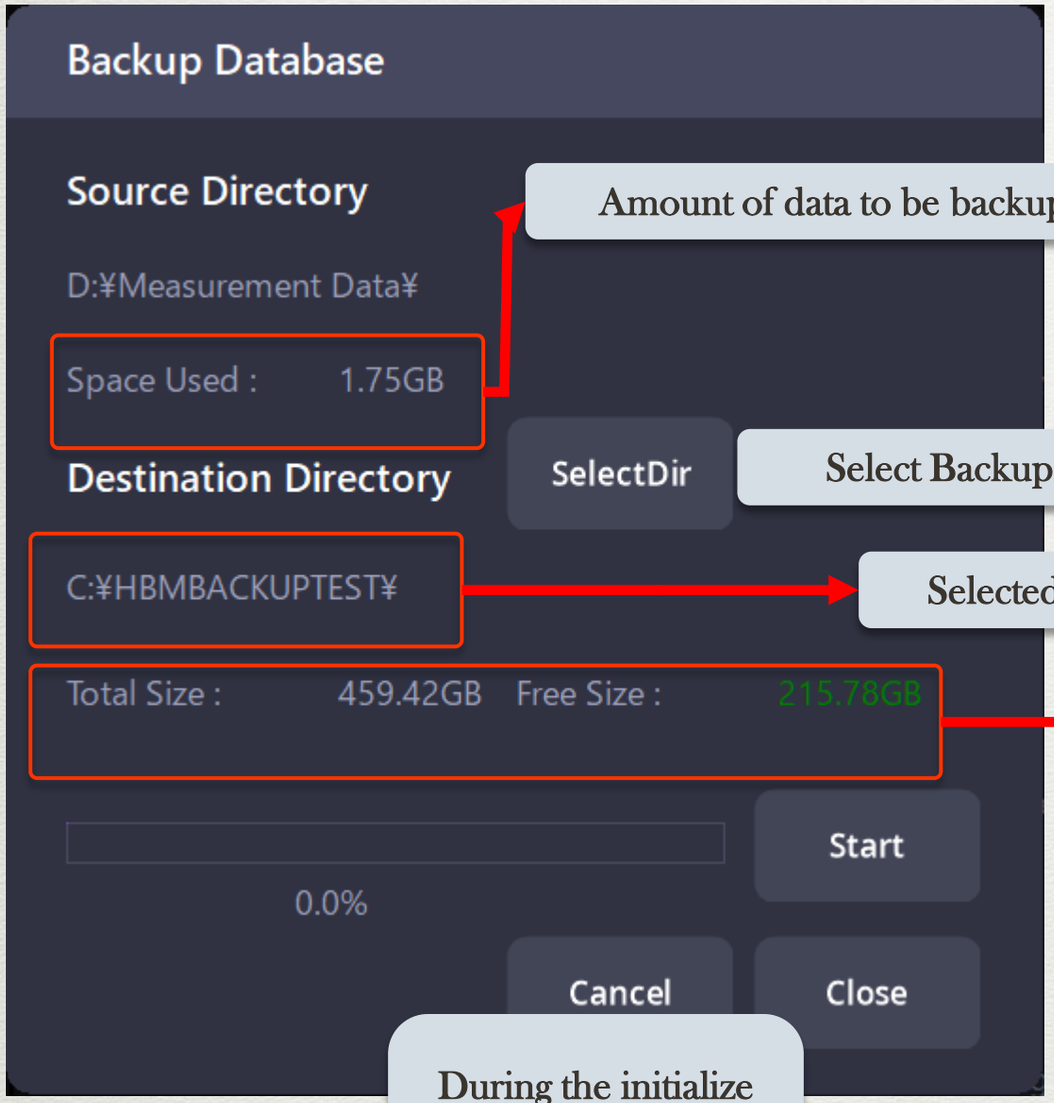
User Setting (Change Directory)

Backup_2024_01_10_07_03_11_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_07_03_16_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_07_12_46_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_07_13_00_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_07_13_33_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_07_13_44_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_07_17_22_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_11_05_26_05_HBM_DB2.db	2024-01-10 오후 2:42	Data Base File	134KB
Backup_2024_01_10_15_18_ContactLens.db	2024-01-10 오후 3:18	Data Base File	0KB
Backup_2024_01_10_15_18_iolc.db	2024-01-10 오후 3:18	Data Base File	0KB
Backup_2024_01_11_02_54_41_HBM_DB2.db	2024-01-11 오전 11:36	Data Base File	129KB
Backup_2024_01_11_03_00_01_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_04_35_05_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_04_59_01_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_05_01_10_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_05_23_13_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_05_28_17_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_05_28_48_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_05_29_41_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_06_06_22_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_06_06_53_HBM_DB2.db	2024-01-11 오전 11:48	Data Base File	134KB
Backup_2024_01_11_06_20_50_HBM_DB2.db	2024-01-11 오후 3:19	Data Base File	0KB
Backup_2024_01_11_06_20_51_iolc.db	2024-01-11 오후 3:19	Data Base File	0KB
Backup_2024_01_11_06_20_52_ContactLens.db	2024-01-11 오후 3:19	Data Base File	0KB
Backup_2024_01_11_06_25_45_iolc.db	2024-01-11 오후 3:25	Data Base File	0KB
Backup_2024_02_19_08_37_04_iolc.db	2024-02-19 오후 5:37	Data Base File	0KB
Backup_2024_02_19_08_37_05_ContactLens.db	2024-02-19 오후 5:37	Data Base File	0KB

When user Pressed ‘Init’, database will be backup

(C:\HBM-1\DatabaseBackup)

User Setting (Data Backup)



Amount of data to be backup

Select Backup Directory

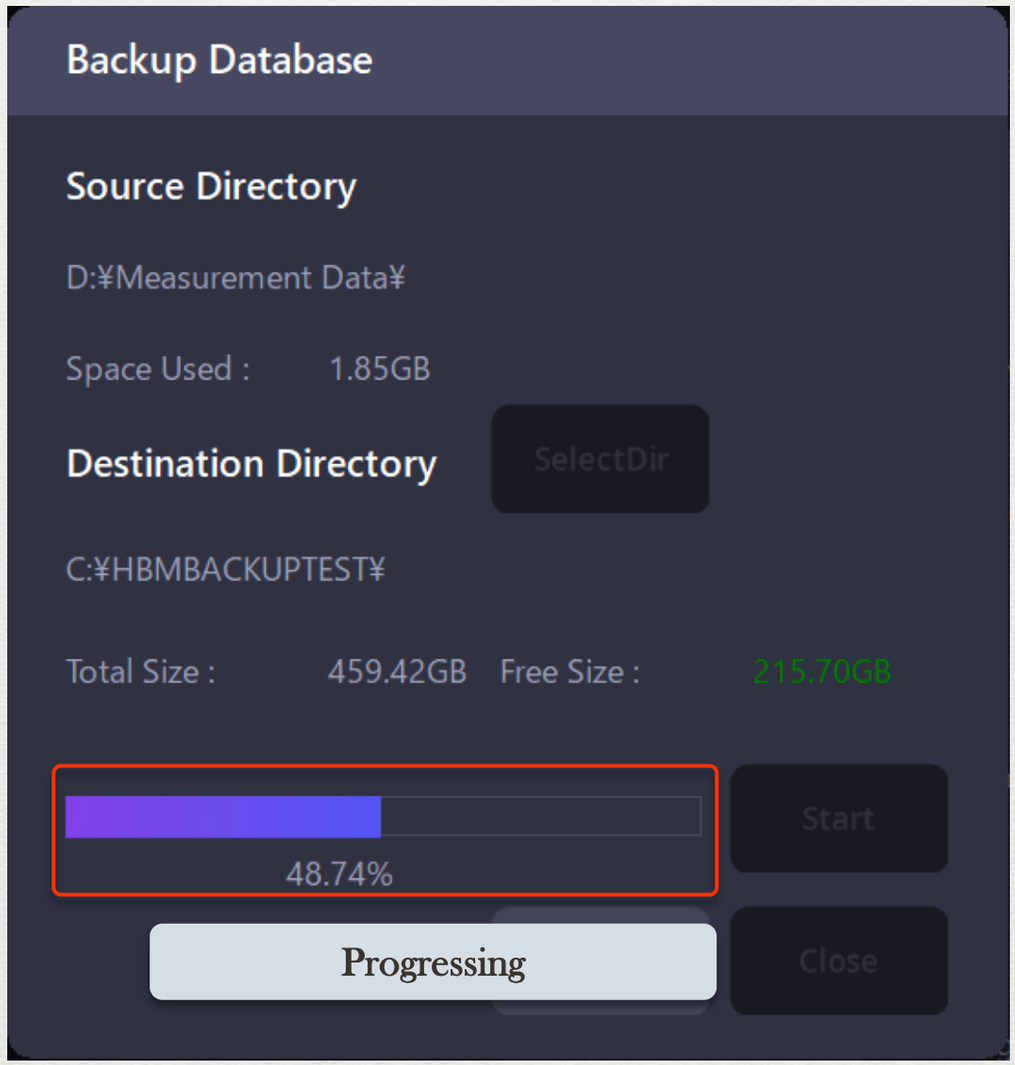
Selected Backup Directory

Selected Backup Directory Information

If Free Size smaller than Data size, Can't Backup

During the initialize patient database, you can cancel initialization

User Setting (Data Backup)



IOL Editor

User Setup

iolcon.org IOL Con - Intraocular Lenses

Steinbeis Vision Research

IOL Con

Show All Lenses | Search For Lenses | Add Clinical Result | Add Lens | Log In

Download | Print | Subscribe | 652 selected lenses

Constants to download:

Biometer: all
Ethnicity: all
Institution: all
Surgeon: all
File Version: 1.7

- ○ Manufacturer / ULIB
- ◉ IOL Con

Visible columns: | Jump to...

Intraocular Lens			Our Optimized Constants [3]				
all / Image	Lens Name		Haigis (a_0 / a_1 / a_2)	Hoffer Q (pACD)	Holladay 1 (SF)	SRK/T (A)	Castrop (C / H / R)
1stQ	1stQ						
	611HPS						
	A4DW0K						
	A4EW0H	AddOn EDOF ADD +1,75					
	A4EW0M	AddOn trifokal ADD +3,00					
	A4FW00	AddOn torisch					
	A4HW0M	AddOn torisch-trifokal ADD +3,00					
	A4MW00	AddOn SML					
	A4SW00	AddOn sphärisch					
	B1AB00	Basis Z hydrophob klar preloaded	118.9 / 1.32 / 0.4 / 0.1 / 5.46 / 1.7 / 118.9 / 1.9 –	0.8751 / 0.2659 / 0.1416	5.6	1.809	119.033
	B1ABY0	Basis Z hydrophob gelb preloaded	118.9 / 1.32 / 0.4 / 0.1 / 5.46 / 1.7 / 118.9 / 1.9 –	0.8751 / 0.2659 / 0.1416	5.6	1.809	119.033
	B1ADY0	Basis Z hydrophob gelb	118.9 / 1.32 / 0.4 / 0.1 / 5.46 / 1.7 / 118.9 / 1.9 –	0.8751 / 0.2659 / 0.1416	5.6	1.809	119.033
	~~B1AP00~~	~~Basis Z preloaded~~	~~1.243 / 0.4 / 0.1 / 5.46 / 1.67 / 118.9~~				

Manufacturer / ULIB –
Provide Constants Manufacturer
IOL Con –
Provide iolcon.org optimized constants

LPCM | Help | Contact | Imprint | Terms & Conditions | Data Privacy Statement

IOL Editor

User Setup

IOL Lens Edit

Keyboard

Select DB : Spherical

History Log

Manufacture	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (pA	Holladay (SF	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin Cal	Shammas (A
1stQ	Basis K	118.9	118.6	118.3	5.15	1.37	0.95	0.4	0.1	1.517	118.9	118.9
1stQ	Basis Q	118	118.3	118.1	5.01	1.25	0.274	0.458	0.116	1.412	118	118
1stQ	Basis Z	118	118.3	118.1	5.01	1.25	-0.07	0.21	0.163	1.412	118	118
1stQ	Basis Z h	118	119.2	118.9	5.46	1.7	1.32	0.4	0.1	1.831	118	118
AMO	808C	118	119.6	119.1	5.65	1.89	1.5	0.4	0.1	1.936	118	118
AMO	CeeOn 9	118.3	119.1	118.7	5.42	1.65	0.568	0.224	0.152	1.726	118.3	118.3
AMO	ClariFlex	118	118.6	118.3	5.14	1.37	0.92	0.4	0.1	1.517	118	118
AMO	PS60 AN	116.7	118.9	118.7	5.46	1.65	1.15	0.4	0.1	1.726	116.7	116.7
AMO	ReZoom	118.4	118.5	118.3	5.2	1.4	0.92	0.4	0.1	1.517	118.4	118.4
AMO	SA40 Arr	118	118.1	117.9	4.9	1.14	0.65	0.4	0.1	1.307	118	118

Add New Lens | Delete Lens | Import (XML) | Import Sph. DB (CSV) | Export Sph. DB (CSV) | Save | Close

IOL Editor

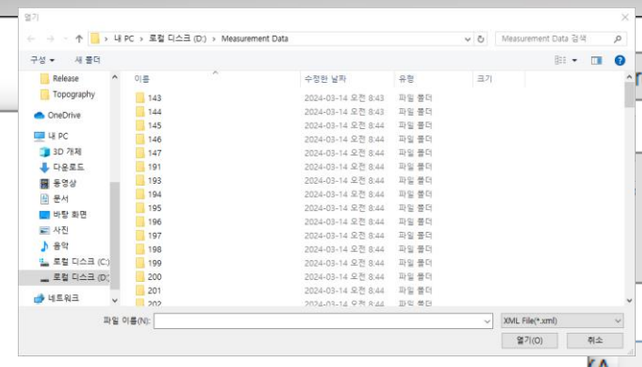
User Setup

IOL Lens Edit

Import

Reference Type : IOL Con

Constraint Type : Norminal/ULIB IOL Con Optimized



Load Data

Load USB

Manufactu	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (p	Holladay (S	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin C	Shammas (

Import

Cancel

Add New Lens

Delete Lens

(XML)

Sph. DB (CSV)

Sph. DB (CSV)

Save

Close

IOL Editor

User Setup

Import

Reference Type : IOL Con

Constraint Type : ◉ Norminal/ULIB ○ IOL Con Optimized

Load Data | Load USB

☐	Manufactu	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (p	Holladay (S	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin C	Shammas (
☐	1stQ	611HPS	0	0	118.3	5.15	1.39	0.95	0.4	0.1	1.52	0	0
☐	1stQ	B1AB00	0	0	118.9	5.46	1.7	1.32	0.4	0.1	1.9	0	0
☐	1stQ	B1ABY0	0	0	118.9	5.46	1.7	1.32	0.4	0.1	1.9	0	0
☐	1stQ	B1ADY0	0	0	118.9	5.46	1.7	1.32	0.4	0.1	1.9	0	0
☐	1stQ	B1AP00	0	0	118.9	5.46	1.67	1.243	0.4	0.1	0	0	0
☐	1stQ	B1APY0	0	0	118.9	5.46	1.67	1.243	0.4	0.1	0	0	0

Import | Cancel

IOL Editor

User Setup

IOL Lens Edit

Keyboard

Select DB : Spherical

History Log

Manufacture	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (pA	Holladay (SF	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin Cal	Shammas (A
1stQ	Basis K	118.9	118.6	118.3	5.15	1.37	0.95	0.4	0.1	1.517	118.9	118.9
1stQ	Basis Q	118	118.3	118.1	5.01	1.25	0.274	0.458	0.116	1.412	118	118
1stQ	Basis Z	118	118.3	118.1	5.01	1.25	-0.07	0.21	0.163	1.412	118	118
1stQ	Basis Z h	118	119.2	118.9	5.46	1.7	1.32	0.4	0.1	1.831	118	118
AMO	808C	118	119.6	119.1	5.65	1.89	1.5	0.4	0.1	1.936	118	118
AMO	CeeOn 9	118.3	119.1	118.7	5.42	1.65	0.568	0.224	0.152	1.726	118.3	118.3
AMO	ClariFlex	118	118.6	118.3	5.14	1.37	0.92	0.4	0.1	1.517	118	118
AMO	PS60 AN	116.7	118.9	118.7	5.46	1.65	1.15	0.4	0.1	1.726	116.7	116.7
AMO	ReZoom	118.4	118.5	118.3	5.2	1.4	0.92	0.4	0.1	1.517	118.4	118.4
AMO	SA40 Ar	118	118.1	117.9	4.9	1.14	0.65	0.4	0.1	1.307	118	118

Add New Lens | Delete Lens | Import (XML) | Import Sph. DB (CSV) | Export Sph. DB (CSV) | Save | Close

IOL Editor

User Setup

IOL Lens Edit

Keyboard

Select DB : Spherical

History Log

Manufacture	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (pA	Holladay (SF	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin Cal	Shammas (A
1stQ	Basis K	118.9	118.6	118.3	5.15	1.37	0.95	0.4	0.1	1.517	118.9	118.9
1stQ	Basis Q	118									118	118
1stQ	Basis Z	118									118	118
1stQ	Basis Z h	118									118	118
AMO	808C	118									118	118
AMO	CeeOn 9	118									118.3	118.3
AMO	ClariFlex	118	118.6	118.3	5.14	1.37	0.92	0.4	0.1	1.517	118	118
AMO	PS60 AN	116.7	118.9	118.7	5.46	1.65	1.15	0.4	0.1	1.726	116.7	116.7
AMO	ReZoom	118.4	118.5	118.3	5.2	1.4	0.92	0.4	0.1	1.517	118.4	118.4
AMO	SA40 Arr	118	118.1	117.9	4.9	1.14	0.65	0.4	0.1	1.307	118	118

Spherical DB Import (CSV)

Path : C:₩Users₩Huvitz₩Desktop₩IOL_Sph_20240226_142132.cs

Open File

Data read successful.

Import

Apply

Cancel

Add New Lens

Delete Lens

Import (XML)

Import Sph. DB (CSV)

Export Sph. DB (CSV)

Save

Close

IOL Editor

User Setup

IOL Lens Edit

Keyboard

Select DB : Spherical

History Log

Manufacture	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (pA	Holladay (SF	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin Cal	Shammas (A
1stQ	Basis K	118.9	118.6	118.3	5.15	1.37	0.95	0.4	0.1	1.517	118.9	118.9
1stQ	Basis Q	118	118.3	118.1	5.01	1.25	0.274	0.458	0.116	1.412	118	118
1stQ	Basis Z	118	118.3	118.1	5.01	1.25	-0.07	0.21	0.163	1.412	118	118
1stQ	Basis Z h	118	119.2	118.9	5.46	1.7	1.32	0.4	0.1	1.831	118	118
AMO	808C	118	119.6	119.1	5.65	1.89	1.5	0.4	0.1	1.936	118	118
AMO	CeeOn 9	118.3	119.1	118.7	5.42	1.65	0.568	0.224	0.152	1.726	118.3	118.3
AMO	ClariFlex	118	118.6	118.3	5.14	1.37	0.92	0.4	0.1	1.517	118	118
AMO	PS60 AN	116.7	118.9	118.7	5.46	1.65	1.15	0.4	0.1	1.726	116.7	116.7
AMO	ReZoom	118.4	118.5	118.3	5.2	1.4	0.92	0.4	0.1	1.517	118.4	118.4
AMO	SA40 Ar	118	118.1	117.9	4.9	1.14	0.65	0.4	0.1	1.307	118	118

Add New Lens | Delete Lens | Import (XML) | Import Sph. DB (CSV) | Export Sph. DB (CSV) | Save | Close

IOL Editor

IOL Lens Edit

Keyboard

Select DB : Spherical

History Log

Manufacture	Model	Manu (A)	SRK2 (A)	SRKT (A)	HofferQ (pA	Holladay (SF	Haigis (a0)	Haigis (a1)	Haigis (a2)	Barrett (LF)	Camellin Cal	Shammas (A
1stQ	Basis K	118.9	118.6	118.3	5.15	1.37	0.95	0.4	0.1	1.517	118.9	118.9
1stQ	Basis Q	118									118	118
1stQ	Basis Z	118									118	118
1stQ	Basis Z h	118									118	118
AMO	808C	118									118	118
AMO	CeeOn 9	118									118.3	118.3
AMO	ClariFlex	118	118.6	118.3	5.14	1.37	0.92	0.4	0.1	1.517	118	118
AMO	PS60 AN	116.7	118.9	118.7	5.46	1.65	1.15	0.4	0.1	1.726	116.7	116.7
AMO	ReZoom	118.4	118.5	118.3	5.2	1.4	0.92	0.4	0.1	1.517	118.4	118.4
AMO	SA40 Arr	118	118.1	117.9	4.9	1.14	0.65	0.4	0.1	1.307	118	118

Spherical DB Export (CSV)

Path : ./IOL_Sph_20240226_142756.csv

Open Folder

Data export successful.

Export

Close

Add New Lens | Delete Lens | Import (XML) | Import Sph. DB (CSV) | Export Sph. DB (CSV) | Save | Close

Exported CSV file

User Setup

IOL_Sph_20240405_164802.csv - Microsoft Excel

파일 | 홈 | 삽입 | 페이지 레이아웃 | 수식 | 데이터 | 검토 | 보기

A1: Manufacturer

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Manufact	Model	Manu_A	SRKII_A	SRK_T_A	HofferQ_p	Holladay_	Haigis_a0	Haigis_a1	Haigis_a2	Barrett_LF	Camellin_(	Shammas_A
2	1stQ	Basis K	118.9	118.6	118.3	5.15	1.37	0.95	0.4	0.1	1.517	118.9	118.9
3	1stQ	Basis Q	118	118.3	118.1	5.01	1.25	0.274	0.458	0.116	1.412	118	118
4	1stQ	Basis Z	118	118.3	118.1	5.01	1.25	-0.07	0.21	0.163	1.412	118	118
5	1stQ	Basis Z hy	118	119.2	118.9	5.46	1.7	1.32	0.4	0.1	1.831	118	118
6	AMO	808C	118	119.6	119.1	5.65	1.89	1.5	0.4	0.1	1.936	118	118
7	AMO	CeeOn 91	118.3	119.1	118.7	5.42	1.65	0.568	0.224	0.152	1.726	118.3	118.3
8	AMO	ClariFlex	118	118.6	118.3	5.14	1.37	0.92	0.4	0.1	1.517	118	118
9	AMO	PS60 ANB	116.7	118.9	118.7	5.46	1.65	1.15	0.4	0.1	1.726	116.7	116.7
10	AMO	ReZoom N	118.4	118.5	118.3	5.2	1.4	0.92	0.4	0.1	1.517	118.4	118.4
11	AMO	SA40 Array	118	118.1	117.9	4.9	1.14	0.65	0.4	0.1	1.307	118	118
12	AMO	Sensar 1-p	118.4	119.3	119	5.57	1.79	-1.004	0.182	0.232	1.87	118.4	118.4
13	AMO	Sensar AR	118.4	118.9	118.7	5.39	1.62	0.472	0.077	0.174	1.726	118.4	118.4
14	AMO	Sensar AR	118.4	118.8	118.7	5.41	1.63	-2.42	0.157	0.288	1.726	118.4	118.4
15	AMO	SI30 NB	117.4	118.6	118.5	5.34	1.58	1.23	0.4	0.1	1.622	117.4	117.4
16	AMO	SI40 NB	118	118.6	118.4	5.19	1.42	-0.199	0.276	0.169	1.569	118	118
17	AMO	SI55	118	119.1	118.7	5.28	1.56	1.1	0.4	0.1	1.726	118	118
18	AMO	Tecnis 1 Z	118.8	119.6	119.3	5.8	2.02	-1.302	0.21	0.251	2.041	118.8	118.8
19	AMO	Tecnis Z90	119	119.5	119.2	5.71	1.93	-0.663	0.117	0.232	1.988	119	119
20	AMO	Tecnis Z90	119	119.4	119.2	5.71	1.94	1.5	0.4	0.1	1.988	119	119
21	AMO	Tecnis Z90	118.7	119	118.8	5.46	1.67	-1.201	0.102	0.246	1.779	118.7	118.7
22	AMO	Tecnis ZA9	119.1	119.4	119.1	5.61	1.84	-1.298	0.233	0.24	1.936	119.1	119.1
23	AMO	Tecnis ZM	119	120.5	119.8	5.89	2.21	1.6	0.4	0.1	2.303	119	119
24	AMO	Tecnis ZM	119.1	120	119.5	5.8	2.06	-1.75	0.242	0.266	2.146	119.1	119.1
25	AMO	Tecnis ZM	118.8	119.7	119.5	5.88	2.1	1.68	0.4	0.1	2.146	118.8	118.8
26	AMO	Tecnis ZM	118.8	119.7	119.7	6.14	2.35	1.93	0.4	0.1	2.25	118.8	118.8
27	AMO	Verisyse 5(	116.8	116.8	116.9	4.34	0.54	-0.25	0.4	0.1	0.784	116.8	116.8
28	AMO	ZFR00V Sy	119.3	0	119.211	5.629	1.882	1.456	0.4	0.1	0	0	0
29	ARGONOI	EUROMAX	118	118.5	118.2	5.09	1.33	0.87	0.4	0.1	1.465	118	118
30	ARGONOI	TRICE	118	118.7	118.5	5.28	1.49	1.13	0.4	0.1	1.622	118	118
31	AUROLAB	FH5600AS	118	117.9	117.8	4.92	1.12	0.68	0.4	0.1	1.255	118	118
32	Aaren	Scientific A	118.5	119.2	118.8	5.54	1.74	1.36	0.4	0.1	1.779	118.5	118.5
33	Aaren	Scientific I	118.3	119.1	118.7	5.37	1.63	1.22	0.4	0.1	1.726	118.3	118.3
34	Aaren	Scientific I	117.8	118.8	118.7	5.4	1.61	1.2	0.4	0.1	1.726	117.8	117.8
35	Aaren	Scientific I	118.2	119.4	119.1	5.69	1.89	1.45	0.4	0.1	1.936	118.2	118.2
36	Aaren	Scientific (	118.1	118.2	118	4.97	1.2	0.75	0.4	0.1	1.36	118.1	118.1
37	Alcon	AcrySof M	118.4	118.8	118.7	5.46	1.64	1.34	0.4	0.1	1.726	118.4	118.4

IOL_Sph_20240405_164802

준비

IOL Editor

User Setup

IOL Lens Edit

Keyboard

Select DB : Toric

History Log

Manufacturer

- Alcon
- AMO
- HOYA
- Oculentis
- HumanOptics

Model

- Tecnis ZCTx

Lens Factor

Manu A	118.800
SRK/T A	119.300
HofferQ pACD	5.800
Holladay SF	2.020
Haigis A0	-1.302
Haigis A1	0.210
Haigis A2	0.251
Barrett LF	2.041

Sphere Power Range

Min	5
Max	34
Step	0.5

Cylinder Power Range

Lens	Toricity
Tecnis ZCT100	1
Tecnis ZCT150	1.5
Tecnis ZCT225	2.25
Tecnis ZCT300	3
Tecnis ZCT375	3.75

Add New Toric Lens | Edit Toric Lens | Delete Toric Lens | Close

IOL Editor

User Setup

Edit Toric Lens

Keyboard

Manufacuturer and Model

Manufacturer: Alcon

Model/Series: AlconTest

Cylinder Range: SubModel List

SubModel List
Range

Exist Submodel & UnConstant Toricity Step

Not exist Submodel & Constant Toricity step

Sphere Power Rang

Min 10 Max 40 Step 0.5

SubModel List

Lens	Toricity

Add Delete

Lens Factor

Manu A	0.0
HofferQ pACD	0.0
Holladay SF	0.0
Haigis A0	0.0
Haigis A1	0.0
Haigis A2	0.0
Barrett LF	0.0

Save Cancel

IOL Editor

User Setup

Edit Toric Lens

Keyboard

Manufacuturer and Model

Manufacturer: Alcon

Model/Series: AlconTest

Cylinder Range: SubModel List

Sphere Power Range

Min 10 Max 40 Step 0.5

SubModel List

Lens	Toricity
AlConSubmodelTest1	0.5
AlConSubmodelTest2	1.5
AlConSubmodelTest3	2.25
AlConSubmodelTest4	3
AlConSubmodelTest5	3.5

Add Delete

Lens Factor

Manu A	0.0
SRK/T A	0.0
HofferQ pACD	0.0
Holladay SF	0.0
Haigis A0	0.0
Haigis A1	0.0
Haigis A2	0.0
Barrett LF	0.0

Save Cancel

IOL Editor

User Setup

Edit Toric Lens

Keyboard

Manufacuturer and Model

Manufacturer: Alcon

Model/Series: AlconTest

Cylinder Range: Range

Sphere Power Range

Min 10 Max 40 Step 0.5

Cylinder Power Range

Min 0.5 Max 4 Step 0.5

Lens Factor

Manu A	0.0
SRK/T A	0.0
HofferQ pACD	0.0
Holladay SF	0.0
Haigis A0	0.0
Haigis A1	0.0
Haigis A2	0.0
Barrett LF	0.0

Save Cancel


Q&A
Axial Length(AL)
x6
Anterior Chamber Depth(ACD)
Central Corneal Thickness(CCT)
Lens Thickness(LT)
x8
Keratometry
Topography
Keratoconus
Zernike Coefficients
Pupilometry
White to white
x1
HUVITZ

Q & A


Axial Length(AL)
x6
Anterior Chamber Depth(ACD)
Central Corneal Thickness(CCT)
Lens Thickness(LT)
x8
Keratometry
Topography
Keratoconus
Zernike Coefficients
Pupilometry
White to white
x1
HUVITZ