

MOPTIM

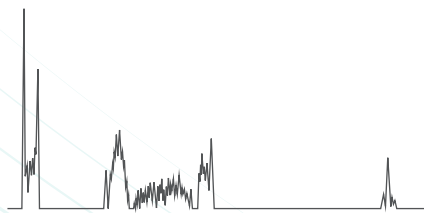
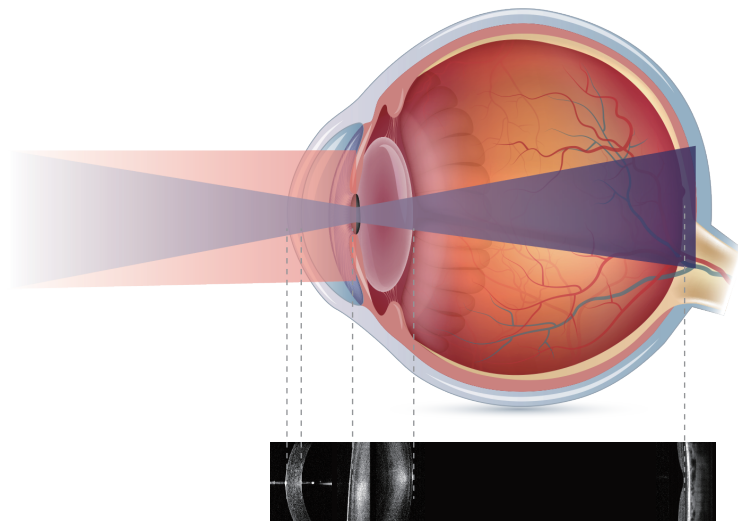


Optical Biometer

Colombo IOL / IOL II

Discover Precision Like Never Before with Our Patented B-scan Dual-path SD-OCT Optical Biometer

The Colombo IOL II is the world's first optical biometer based on B-scan dual-path SD-OCT technology. It captures all biometric parameters in one scan, guarantees consistent axial length measurements, and offers high-definition OCT imaging of cornea and retina.

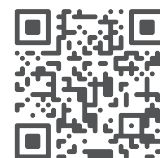


Traditional A-scan Technology (PCI/OLCR)

- Imaging feature is absent
- Unable to conduct a fixation check

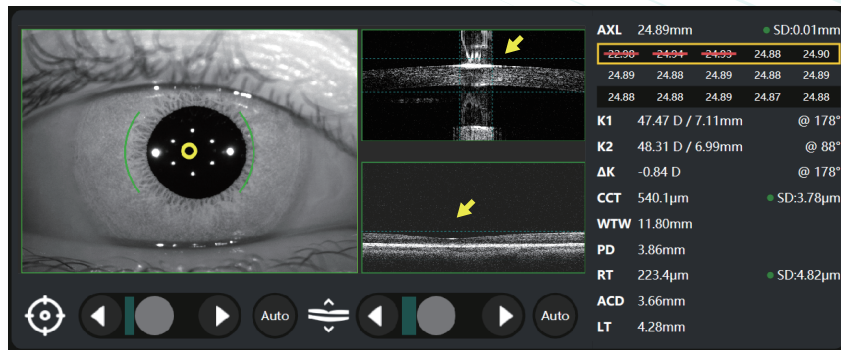
Colombo IOL / IOL II

- Simultaneous imaging of the cornea and retina
- Automatic real-time fixation check

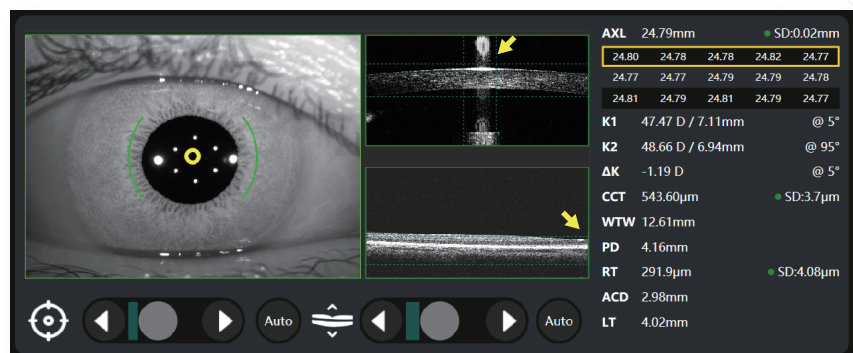


Video Introduction

Same eye being measured twice - poor fixation can result in more than significant difference in AXL.



Good Fixation



Poor Fixation

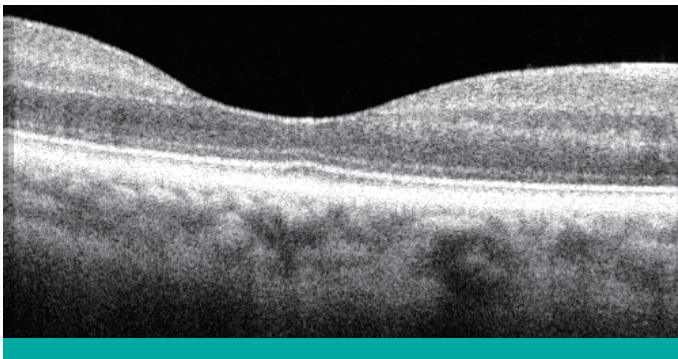
Ensure Clinical Repeatability With Automatic Real-time Fixation Check

The Colombo IOL/IOL II automatically takes the scan when it detects the corneal reflection and fovea at the center, ensuring reliable axial length measurement, minimizing errors caused by poor fixation, in order to reduce post-surgery refractive surprises.

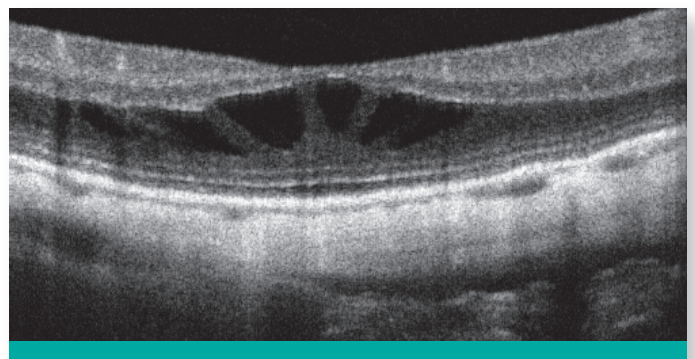
Simultaneously Achieving Biometric Measurement and Retinal Screening

With the patented technology, Colombo IOL/IOL II enables high-definition OCT imaging during biometric measurements, thereby increasing efficiency in eye care.

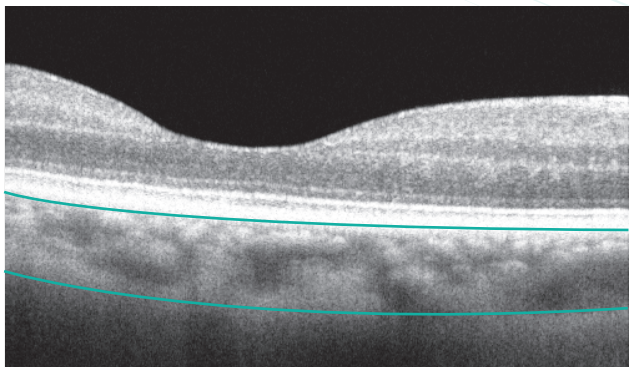
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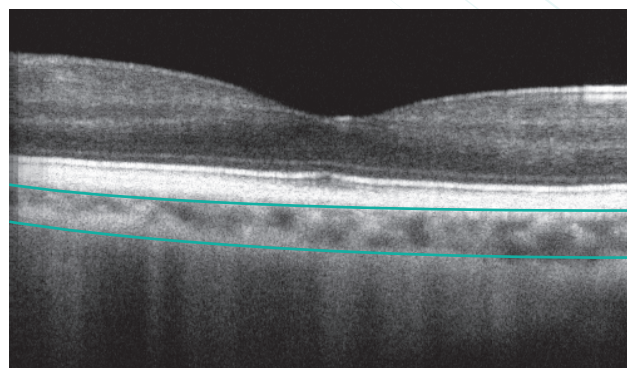
Retinal structure of a normal eye



Retinal structure of a pathological eye



Choroidal structure of a normal eye



Choroidal structure of a high myopic eye

Choroidal Thickness Evaluation

Redefine myopia management protocol

The Colombo IOL/IOL II is the only optical biometer that offers high-definition OCT imaging for choroidal thickness evaluation.

Myopic children have significantly thinner choroids compared to nonmyopic children of similar age, particularly in central foveal regions. The magnitude of difference in choroidal thickness associated with myopia appears greater than would be predicted by a simple passive choroidal thinning with axial elongation.^[1]

[1] Scott A. Read, Michael J. Collins, Stephen J. Vincent, David Alonso-Caneiro; Choroidal Thickness in Myopic and Nonmyopic Children Assessed With Enhanced Depth Imaging Optical Coherence Tomography. Invest. Ophthalmol. Vis. Sci. 2013;54(12):7578-7586. doi: <https://doi.org/10.1167/iovs.13-12772>.

Excellent Cataract Penetration

with the 1050nm wavelength SLD

Using a 1050nm wavelength SLD, the Colombo IOL II has been engineered to provide superior penetration in cataract procedures, revolutionizing the field of ophthalmology.

* Please note: this feature is not applicable to Colombo IOL.

Colombo IOL

HomeMeasureReportTrendIOL

OD

Phakic

MOPTIM ColomboMale202311290001

OS

Phakic

Target Ref:-0.5

AXL(A-scan):

Manual

Print

IOLAlcon SA60AT

FormSRK/T

A= 118.8

IOL(D)	Ref(D)
13.00	-0.99
12.50	-0.67
12.00	-0.36
11.50	-0.04
11.00	0.27

Power 12.23D

IOLAlcon SA60AT

FormHolladay 1

SF= 1.67

IOL(D)	Ref(D)
13.00	-1.28
12.50	-0.96
12.00	-0.63
11.50	-0.31
11.00	0.00

Power 11.79D

IOLAlcon SA60AT

FormulaHoffer Q

PACD= 5.44

IOL(D)	Ref(D)
12.50	-1.13
12.00	-0.80
11.50	-0.48
11.00	-0.17
10.50	0.15

Power 11.53D

IOLAlcon SA60AT

FormulaHaigis

A0/A1/A2= -0.111/0.249/0.179

IOL(D)	Ref(D)
13.00	-1.23
12.50	-0.88
12.00	-0.54
11.50	-0.20
11.00	0.14

Power 11.95D

OD

AXL:26.48

K1:44.10

ACD:3.74

K2:45.62

LT:4.00

ΔK:-1.52

OS

AXL:26.27

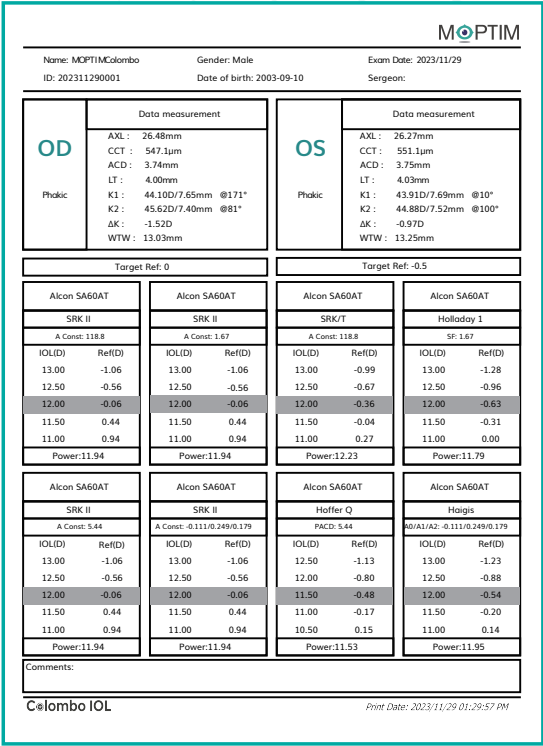
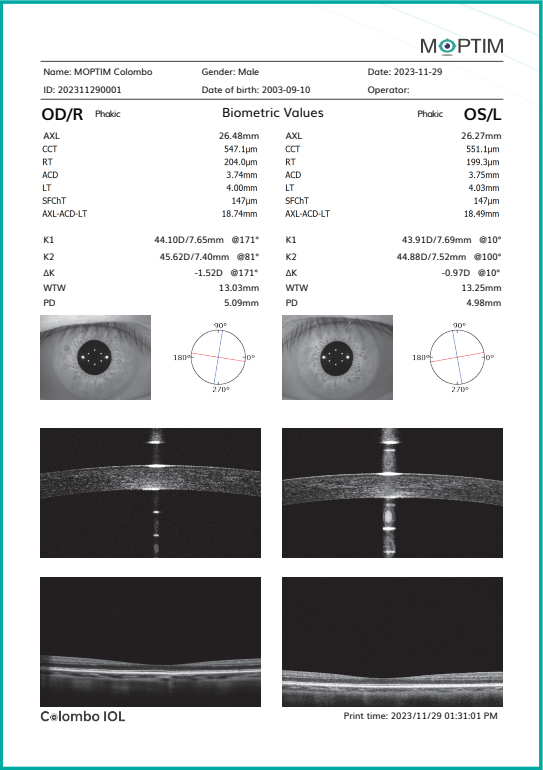
K1:43.91

ACD:3.75

K2:44.88

LT:4.03

ΔK:-0.97



Comprehensive Report

Empowering cataract surgery planning and myopia management with comprehensive report templates including:

- Biometric data
- IOL calculation results
- Myopia progression report
- Historical measurement data

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SPECIFICATIONS

		Colombo IOL	Colombo IOL II
MEASUREMENT RANGE	Axial Length	12.1 mm – 38.0 mm	←
	Corneal Thickness	0.2 mm – 1.4 mm	←
	Corneal Radii	28.1 D – 84.3 D	←
	Anterior Chamber Depth	0.7 mm – 6.0 mm	←
	Lens Thickness	1.3 mm - 7.0 mm	←
	Pupil Size	0.5 mm – 13.5 mm	←
	White-to-white	6mm – 16 mm	←
DISPLAY SCALING	Axial Length	10 μ m	←
	Corneal Thickness	100 μ m	←
	Corneal radii	0.01 D	←
	Anterior Chamber Depth	10 μ m	←
	Lens Thickness	10 μ m	←
	White-to-white	10 μ m	←
	Pupil Size	10 μ m	←
REPEATABILITY	Axial Length	± 20 μ m	←
	Corneal Thickness	± 10 μ m	←
	Corneal Radii	± 0.25 D	←
	Anterior Chamber Depth	± 0.01 mm	←
	Lens Thickness	± 0.05 mm	←
	Pupil Size	± 0.09 mm	←
	White-to-white	± 0.1 mm	←
OCT IMAGING	Light Source	SLD, 850 nm	SLD, 1050 nm
	Resolution	5 μ m	←
	Scan Range	4 mm	6 mm
SOFTWARE	Myopia Trend Analysis	Yes	←
	Choroidal Evaluation	Yes	←
	IOL Formulas	SRK II, SRK-T, Holladay I, Hoffer Q, Haigis, Shammas PL	
MACHINE SPECIFICATIONS	Power	220V~, 50Hz	
	Dimension	527 (L) x 345 (W) x 507 (H) mm	
	Weight	19.7 kg	
	LCD Screen	10.1 inch touch screen (with HDMI output)	

* Specifications are subject to change without notice.

MOPTIM®



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