MOPTIM

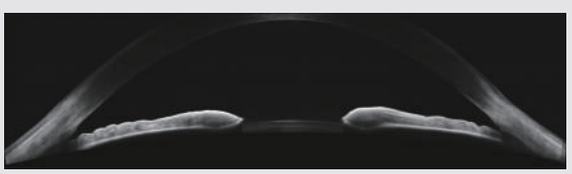
Optical Coherence Tomographer

Mocean® 4000

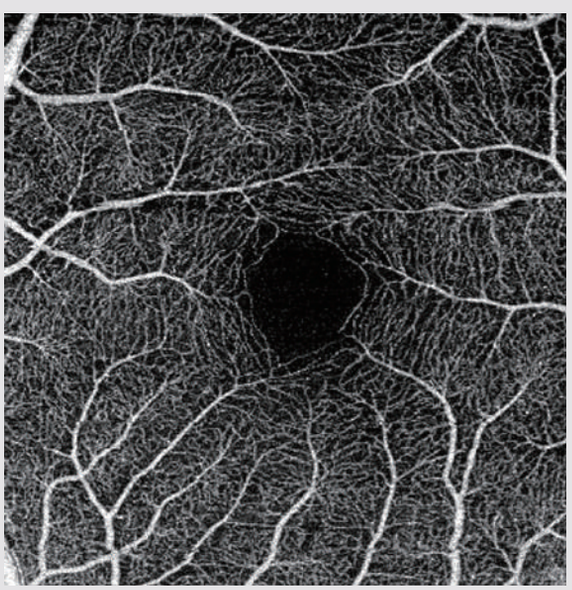
Mocean® 4000 SLO-OCT

PREMIUM OCT FOR ADVANCED PRACTICE

45˚ real-time SLO imaging



16mm angle-to-angle scan



3x3mm VASCAN OCTA imaging (optional)

The Mocean 4000, configured with state-of-the-art SLO-OCT imaging systems and the SLO-based eye tracker, is a powerful diagnostic tool for a variety of ocular diseases.

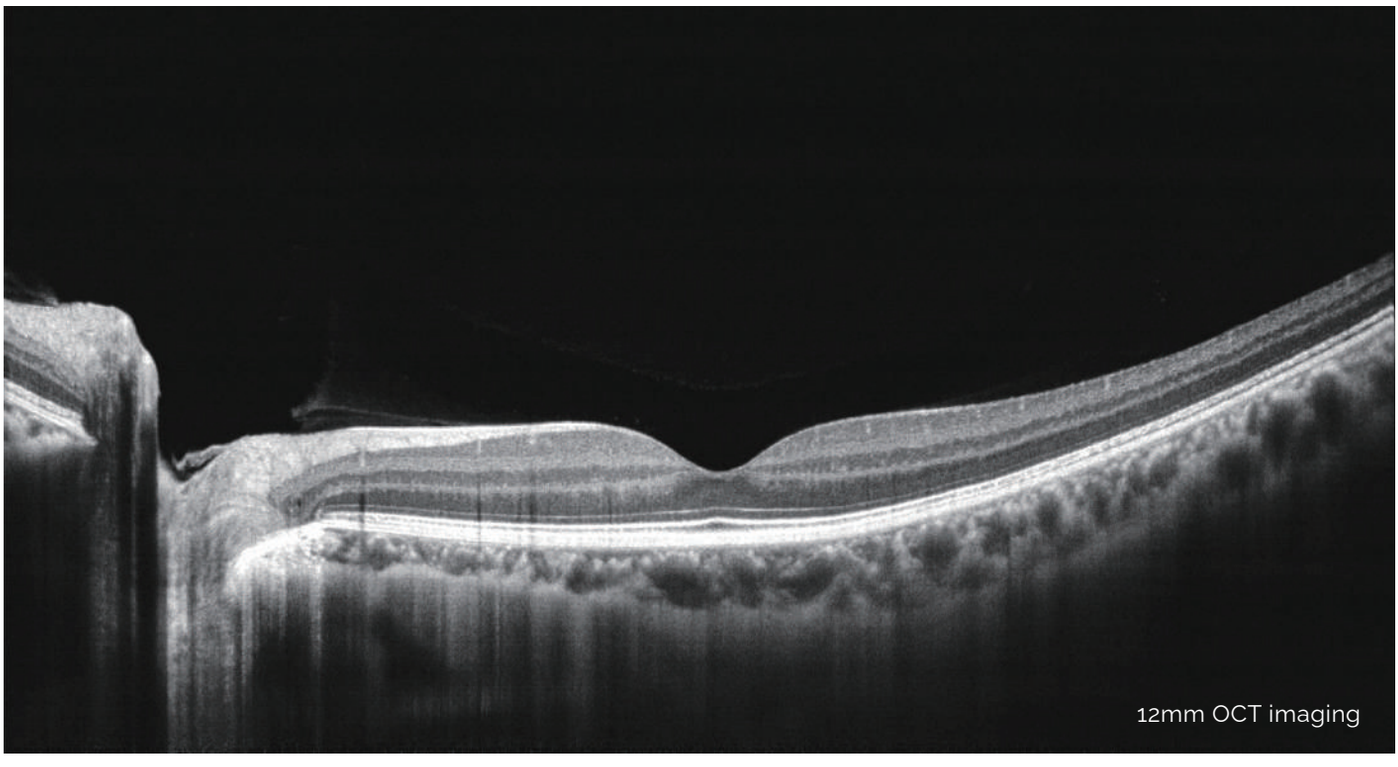
The key advantage of the Mocean 4000 is the wide range real-time fundus imaging based on Scanning Laser Ophthalmoscope (SLO) technology. With an overview of the retina, it allows user to locate the lesion area easily before acquisition. Moreover, the eye tracker helps to reduce the artifacts caused by eye movements, It performs 100 times tracking per second with 10 microns tracking accuracy and more than 95% success rate, which brings you more confidence in practice.

SLO + EYE TRACKING

- 45˚ wide range live SLO imaging
- Ultra fine quality retinal imaging using averaging technique
- SLO-based real-time retinal tracking effectively reduces artifacts caused by eye movement

HD OCT IMAGING

- High scanning speed at 80,000 A-scans/s
- 3mm scan depth shows better details of the vitreous, retina and choroid
- 6-16 mm scan range
- Up to 100 images averaging
- Upgrade to VASCAN OCTA analysis (optional)

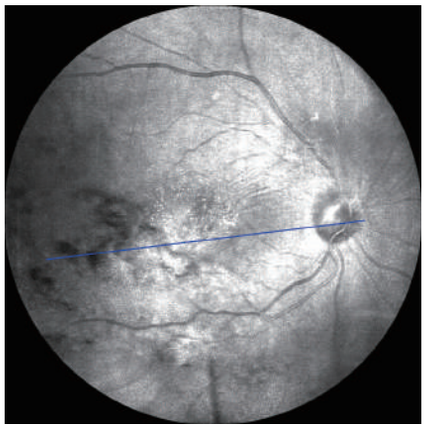


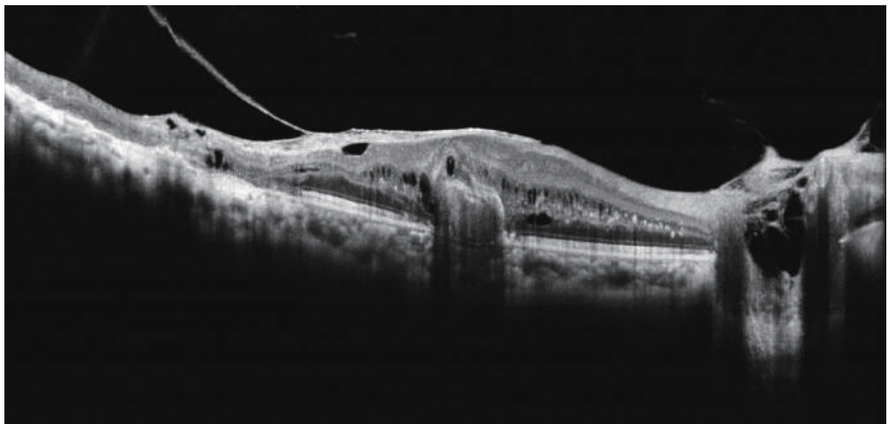
12mm OCT imaging

MACULA

Macula HD Line

High definition OCT imaging reveals hidden pathological changes



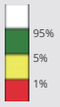


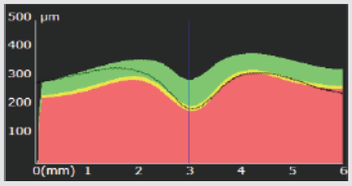
* OCT scan range can be switched between 6 mm and 12 mm

Macula Radial Line

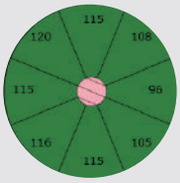
Have a glimpse of the retina via HD imaging and quick data analysis

ILM-RPE thickness map

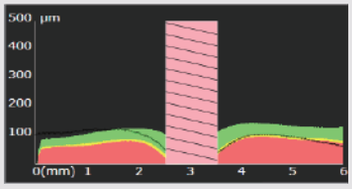




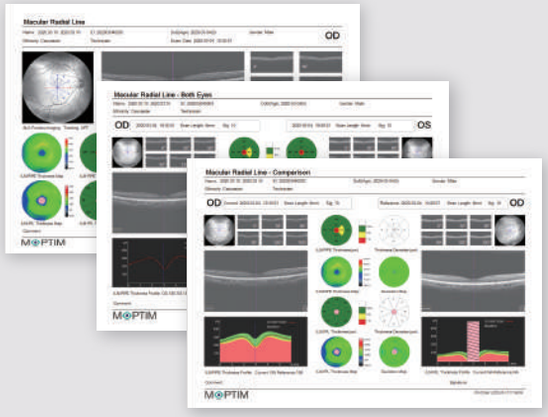
ILM/RPE thickness profile



ILM-IPL thickness map



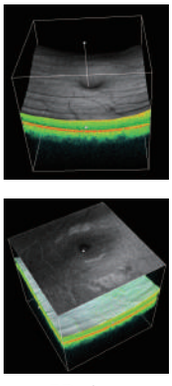
ILM/IPL thickness profile



Informative reports

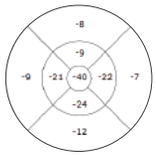
Macula Cube

Assessment of retinal thickness in 6x6mm area



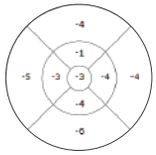
3D view

ILM-RPE thickness



ILM-RPE thickness deviation

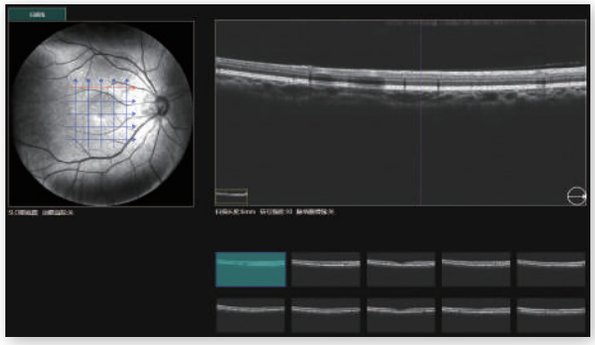
ILM-RPE volume



ILM-RPE volume deviation

Macula Multi Lines

Multiple HD cross-sectional images acquisition



GLAUCOMA

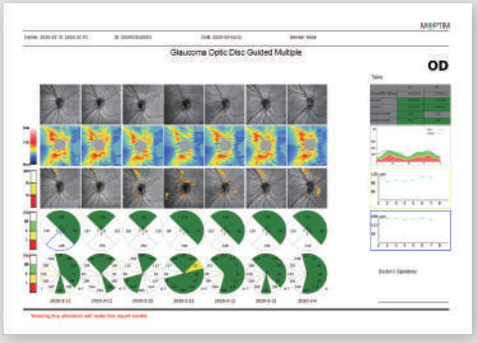
Glaucoma (Macular)

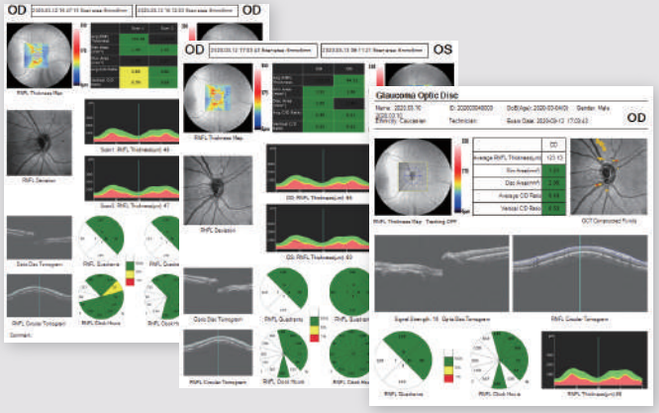
- ILM-IPL thickness analysis for early diagnosis of glaucoma
- Precise follow-up analysis powered by eye tracking

Glaucoma (Disc)

- RNFL analysis
- Cup-disk analysis

Reports

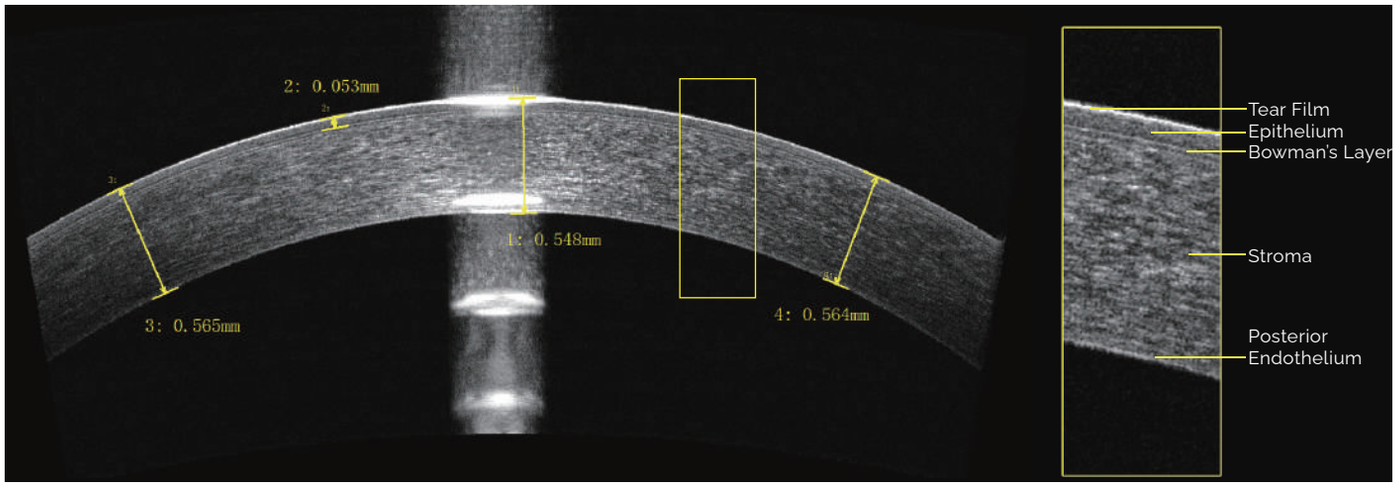




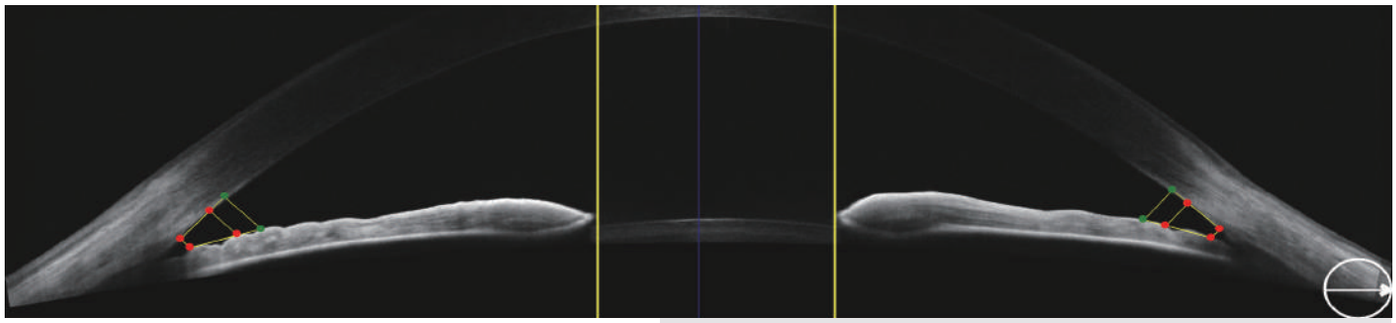
ANTERIOR SEGMENT

Anterior HD Line

High definition OCT imaging of the cornea enables clear visualization of the cornea segmentation

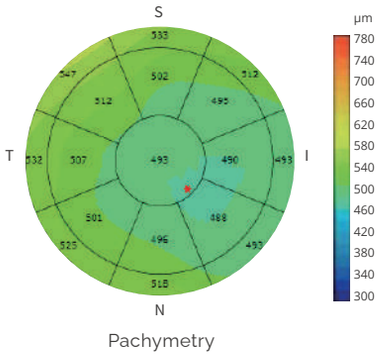


16mm wide angle-to-angle view and automatic angle analysis

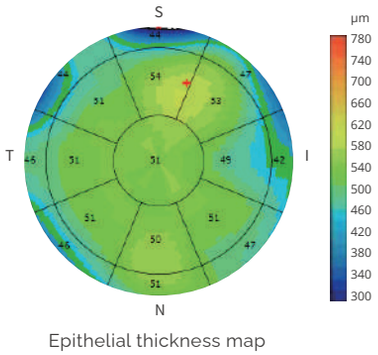


Temporal	AOD500	AOD750	TISA500	TISA750	Theta500	Theta750
	0.345mm	0.545mm	0.108mm²	0.236mm²	27.9°	32.2°
Nasal	AOD500	AOD750	TISA500	TISA750	Theta500	Theta750
	0.494mm²	0.726mm²	0.16mm²	0.327mm²	25.8°	38.7°

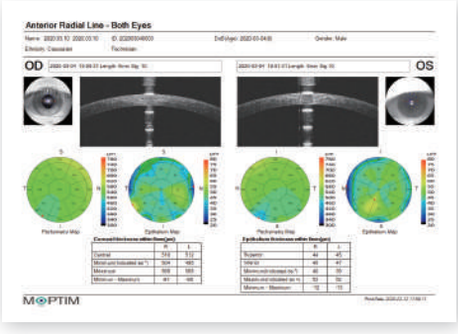
Anterior Radial Line



Pachymetry



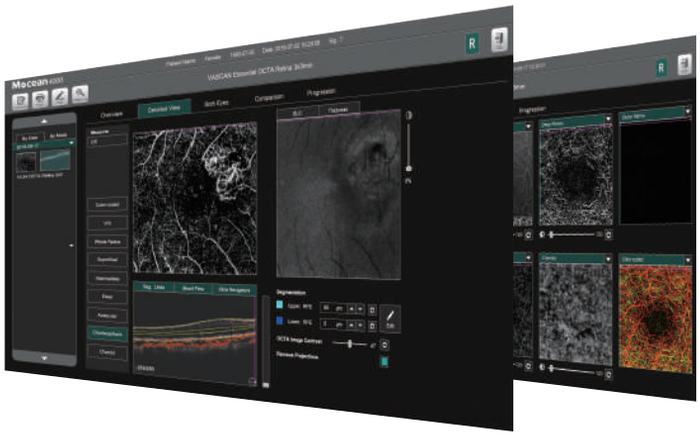
Epithelial thickness map



VASCAN® OCT ANGIOGRAPHY (OPTIONAL)

Macular Area

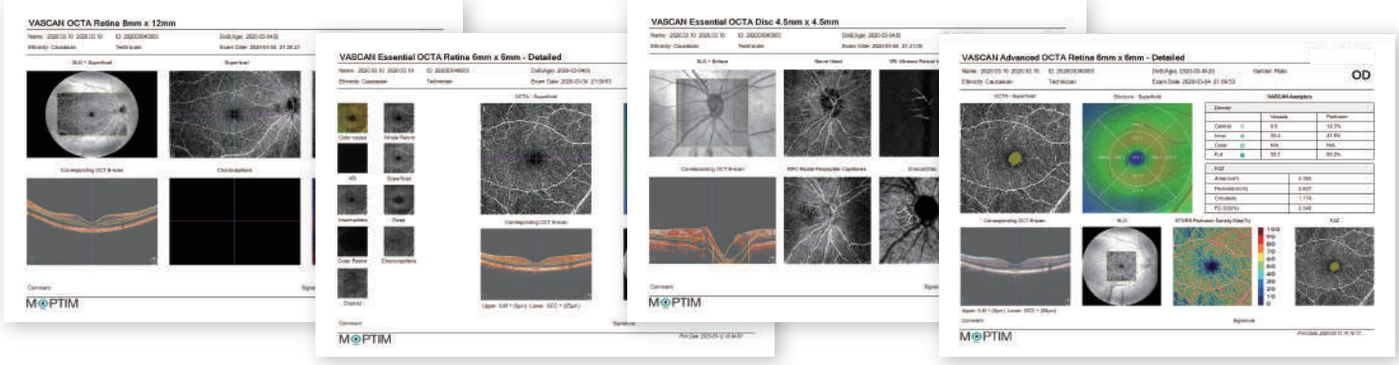
Scan area	Density
3 mm x 3 mm	256 x 256
6 mm x 6 mm	512 x 512
8 mm x 8 mm	512 x 512
12 mm x 8 mm	540 x 360



Optic Disc Area

Scan area	Density
4.5 mm x 4.5 mm	512 x 512
6 mm x 6 mm	512 x 512

Reports



SPECIFICATIONS

OCT IMAGING	
Methodology	Spectral domain OCT
Optical source	Super luminescent diode (SLD), 840 nm
Scan speed	80,000 A-scans/s
Axial resolution (optical)	5 microns (optical), 3.6 microns (digital)
Transverse resolution	15 microns (optical), 3 microns (digital)
A-scan depth	3 mm
Diopter range	- 20 to + 20 diopters
Scan patterns	Macular: HD line scan (6 / 12 mm), 3D scan (6 mm x 6 mm), 6-line radial scan, Multi (X-Y: 5 x 5); Disc: 3D scan (6 mm x 6 mm) Anterior: HD line scan (6 / 16mm), 6-line radial scan

FUNDUS IMAGING	
Methodology	Line scanning laser ophthalmoscopy (LSLO)
Minimum pupil diameter	3.0 mm
Field of view	45±1 degrees

VASCAN™ OCTA MODULE (OPTIONAL)				
	VASCAN Advance		**VASCAN Essential**	
Scanning volume/area	3mm x 3mm 6mm x 6mm 8mm x 8mm 12mm x 8 mm	256 x 256 A-scans 360 x 360 A-scans 360 x 360 A-scans 540 x 360 A-scans	3mm x 3mm 12mm x 8 mm	256 x 256 A-scans 540 x 360 A-scans
Algorithm	C-OMAG			
Segmentation options	Encoded, vitreousretina intrerface(VRI), superfcial retina, deepfcial retinal, outer retina, choriocapillaris, choriod, custom			
Quantitative analysis	Yes		Not available	

ELECTRICAL AND PHYSICAL	
Weight	30.5 kg
Dimension	532 mm (L) x 360 mm (W) x 540 mm (H)
Source voltage	AC 100 - 240 V, 50 Hz - 60 Hz
Power input	90 VA

Specifications are subject to change due to product improvement.

MOPTIM®

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