

M^{OPTIM}



Optical Coherence Tomographer

Mscan® 3000

Mocean[®] 3000 SLO-OCT

OCT INNOVATIONS WITHIN REACH



The Mocean[®] series, 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 series 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.

HD OCT IMAGING

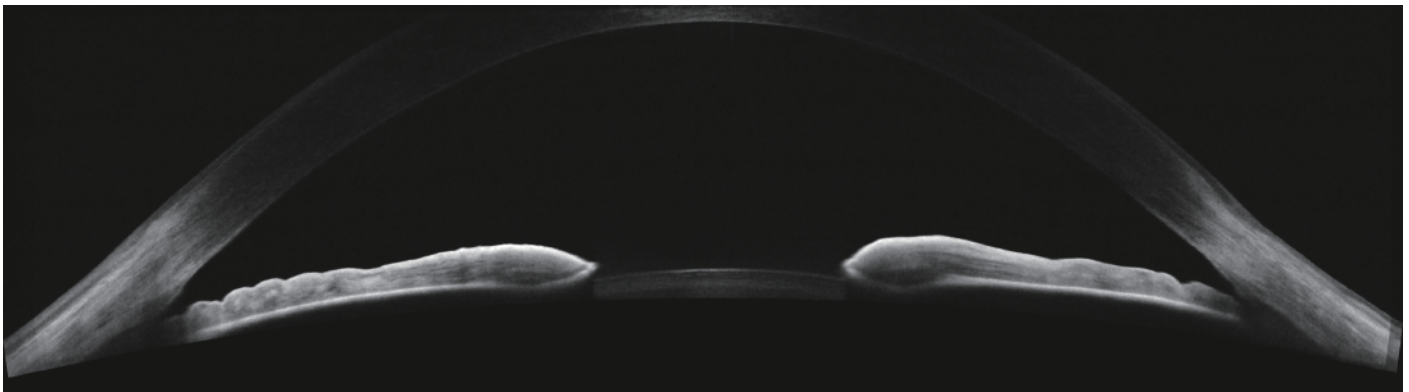
- 3.1 mm scan depth shows better details of the vitreous, retina and choroid
- 6 - 16 mm scan range
- Up to 100 images averaging

SLO + EYE TRACKING

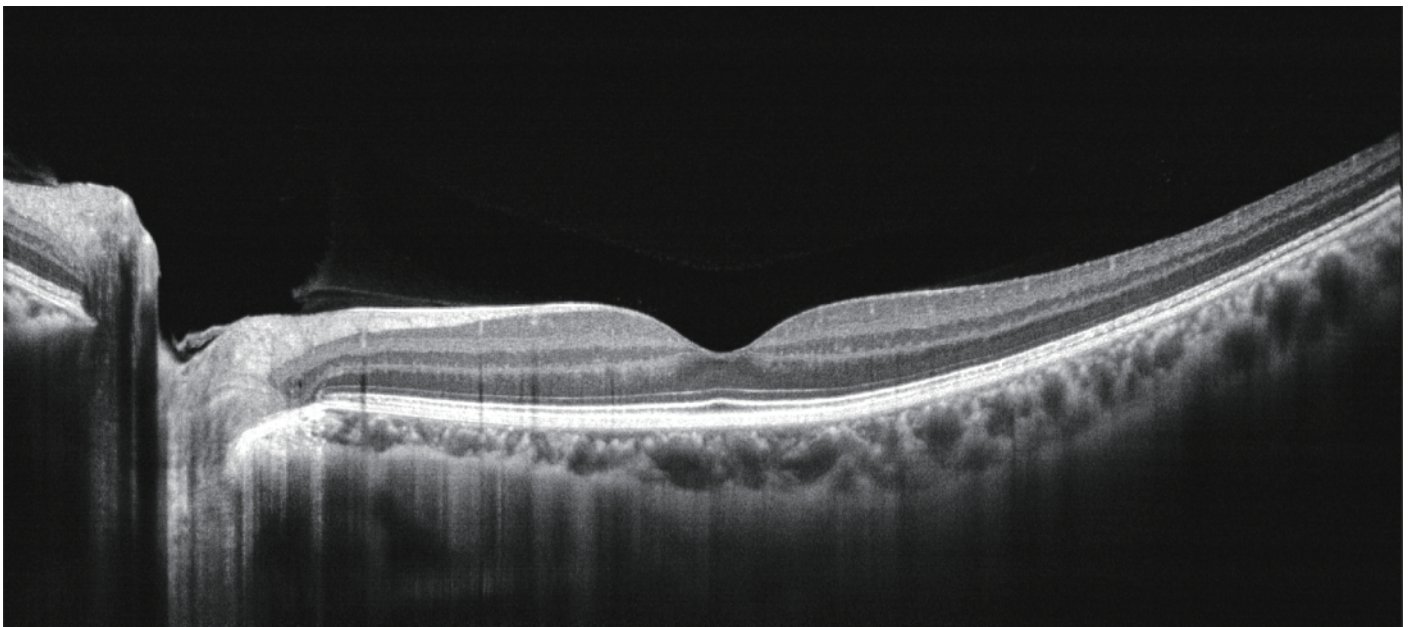
- 45° wide range live SLO imaging
- Ultra fine quality retinal imaging using averaging technique
- SLO-based real-time retinal tracking effectively reduces artifacts caused by eye movement



45° real-time SLO imaging



16mm angle-to-angle scan



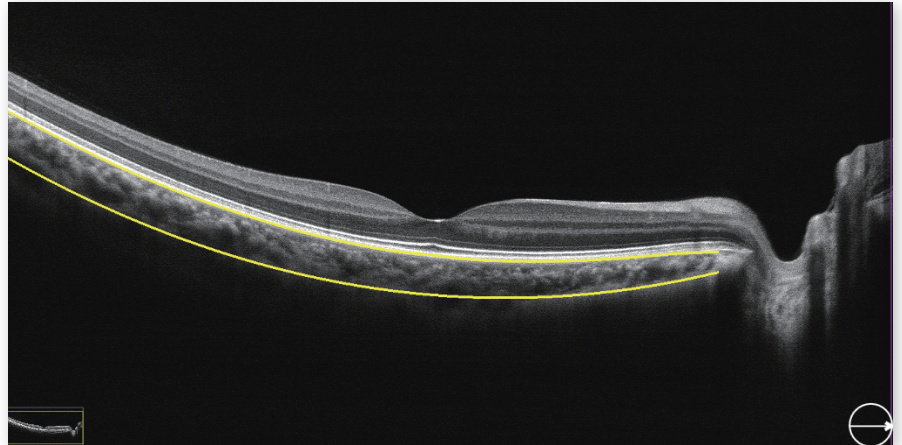
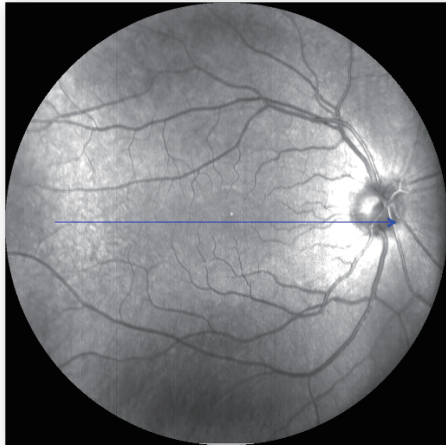
12mm widefield OCT imaging, 3.1mm scan depth

MACULA



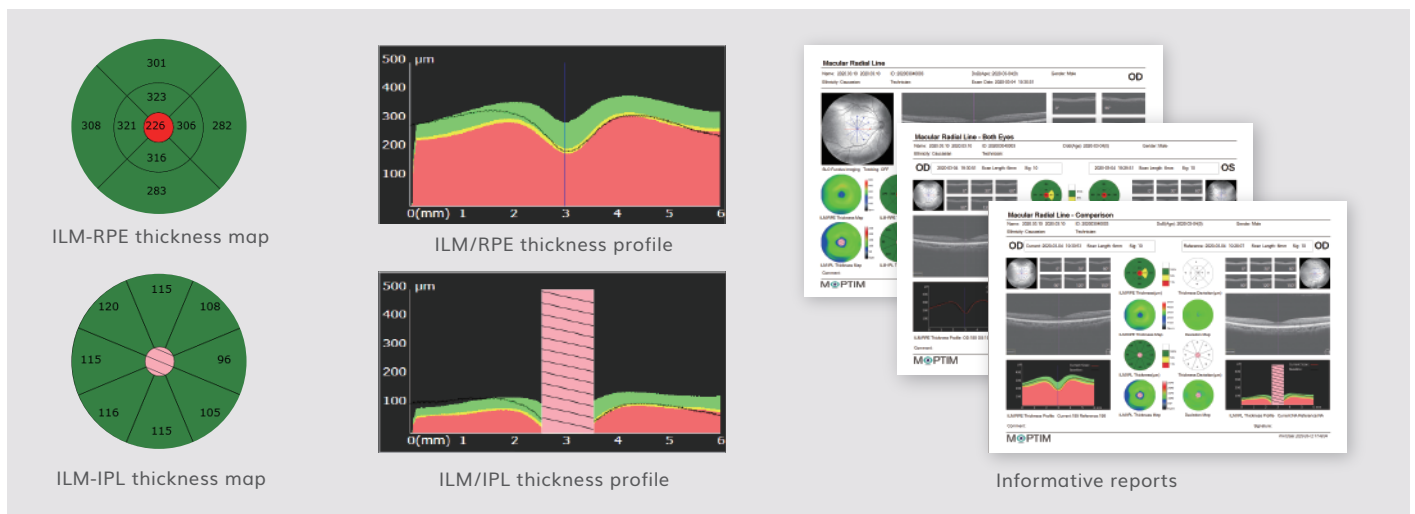
Macula HD Line

High definition OCT and SLO imaging, along with automated choroidal thickness analysis.



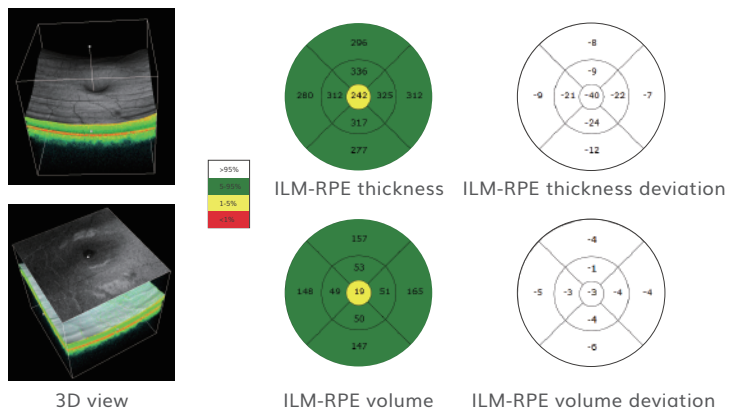
Macula Radial Line

Designed for screening, offering OCT images from six directions, as well as analysis of retinal thickness and GCC.



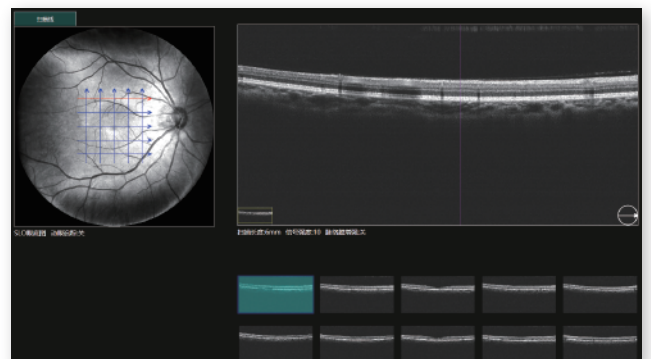
Macula 3D

Assessment of retinal thickness in 6x6 mm area

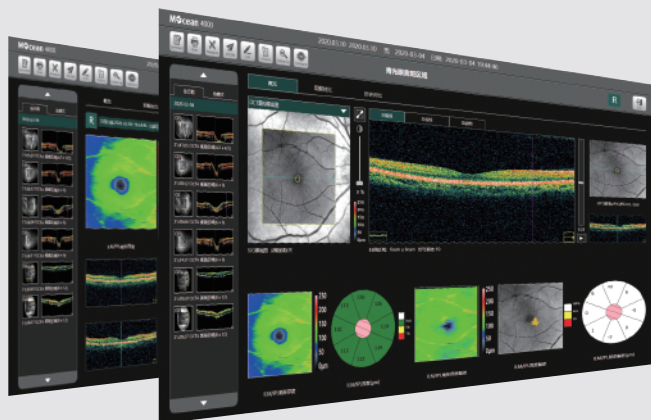


Macula Multi Lines

Multiple HD cross-sectional images acquisition



GLAUCOMA



Glaucoma Macular 3D

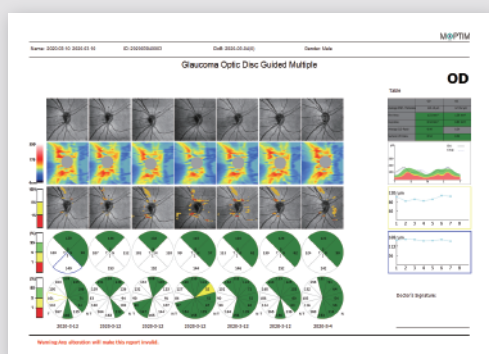
- ILM-IPL thickness analysis for early diagnosis of glaucoma
- Enhanced precision in follow-up analysis supported by SLO-based eye tracking technology

Glaucoma Optic Disc 3D

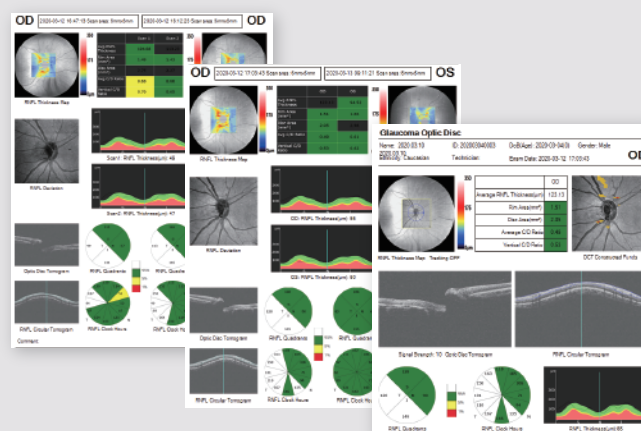
- RNFL analysis
- C/D analysis



Informative Reports



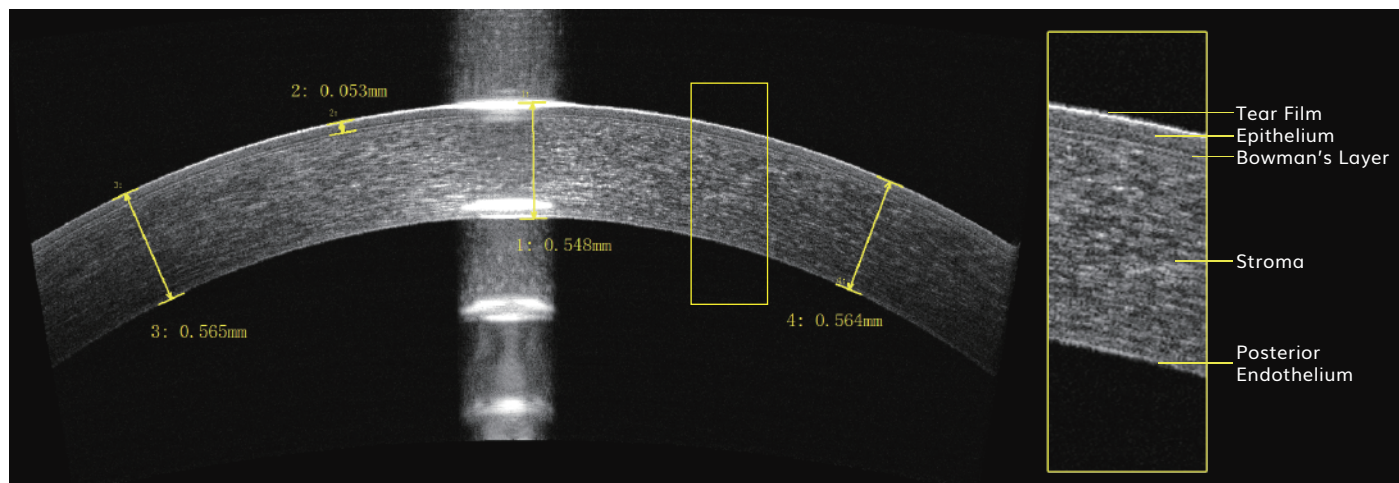
Progressive analysis



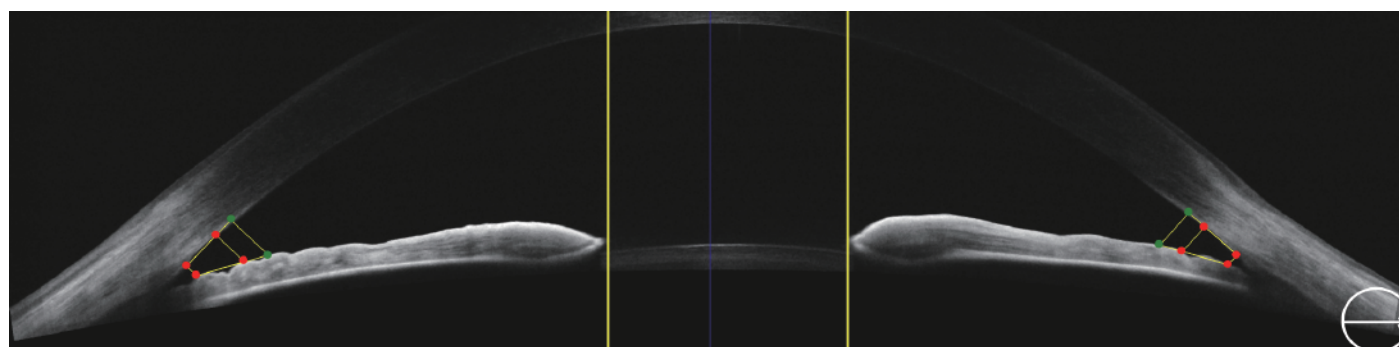
ANTERIOR SEGMENT

Anterior HD Line

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



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



Temporal	AOD500	AOD750	TISA500	TISA750	Theta500	Theta750
	0.345mm	0.545mm	0.108mm ²	0.236mm ²	27.9°	32.2°
Nasal	AOD500	AOD750	TISA500	TISA750	Theta500	Theta750
	0.494mm ²	0.726mm ²	0.16mm ²	0.327mm ²	25.8°	38.7°

Anterior Radial Line

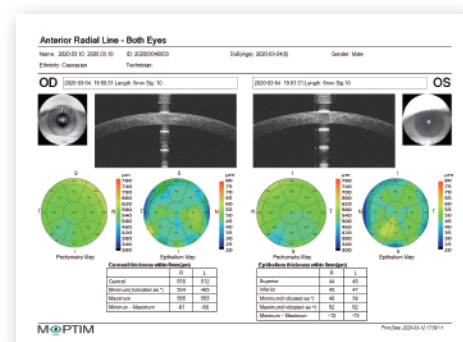
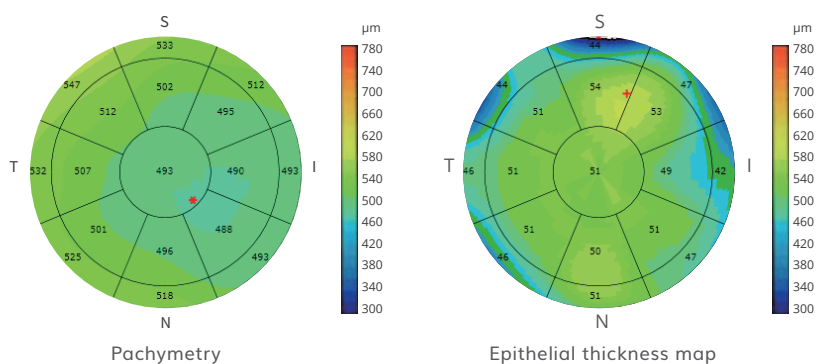
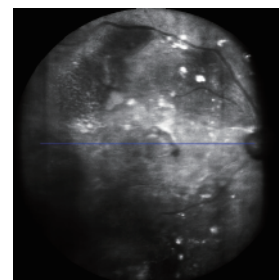
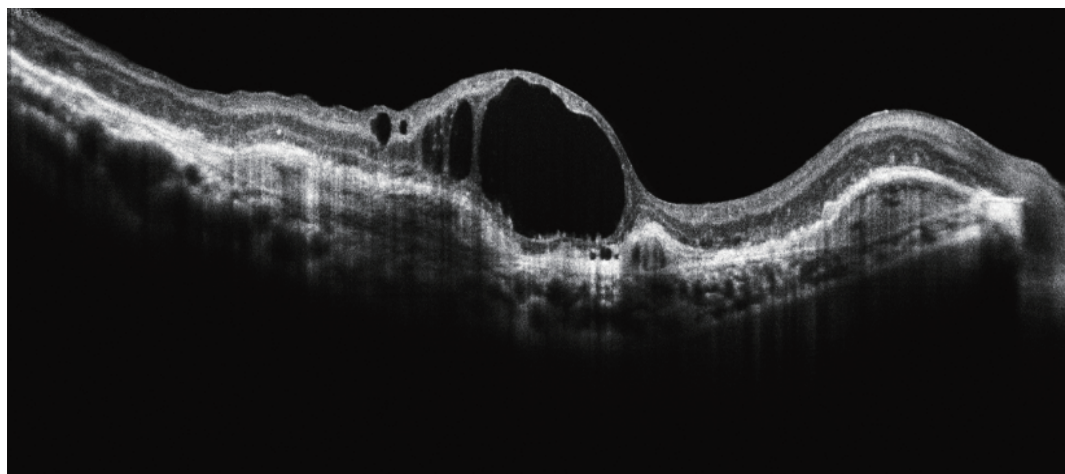
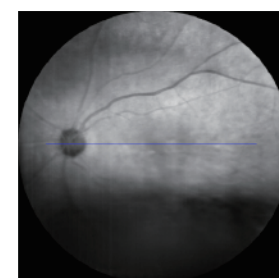
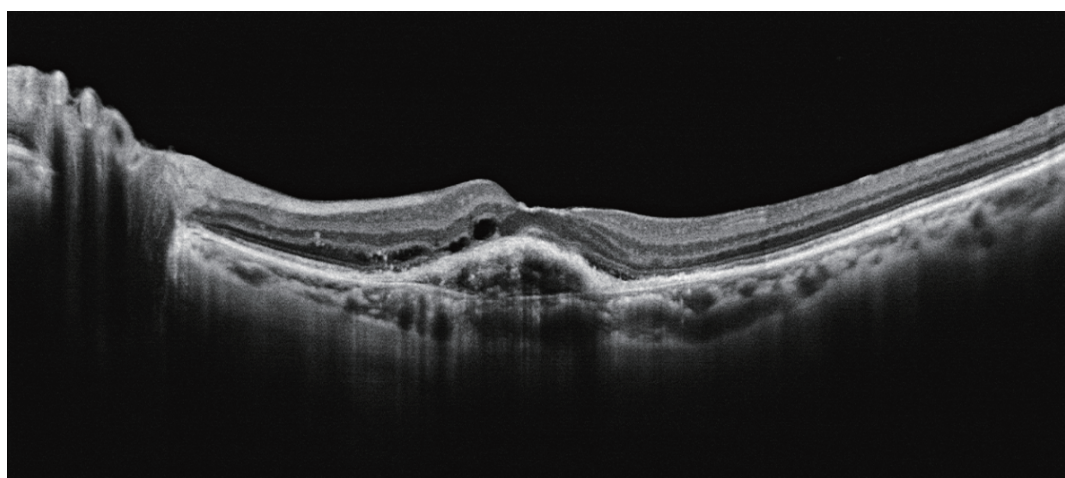


IMAGE GALLERY

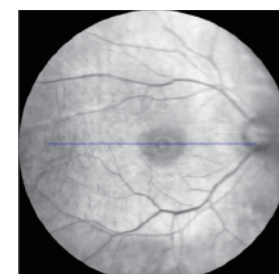
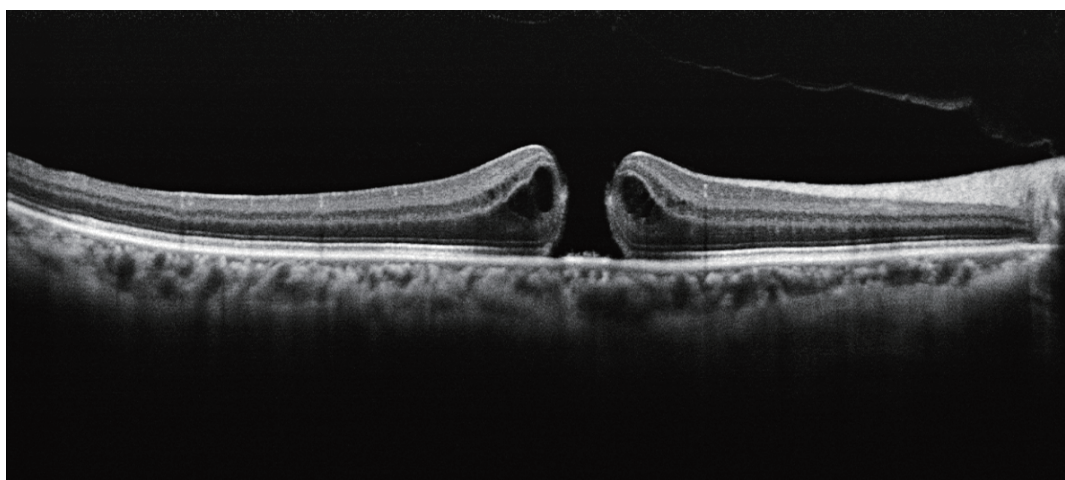
Diabetic Retinopathy



Wet AMD



Macular Hole



SPECIFICATIONS

OCT IMAGING

Methodology	Spectral domain OCT
Scan speed	50,000 A-scans/s
Optical source	Super luminescent diode (SLD), 840 nm
Axial resolution (optical)	5 microns (optical), 3.6 microns (digital)
Transverse resolution	15 microns (optical), 3 microns (digital)
A-scan depth	3.1 mm in tissue
Diopter range	- 20 to + 20 diopters
Scan patterns	Macular: HD line (6/12mm); 3D (6x6mm); Radial lines (6mm); Multi lines (X-Y: 5x5/X:9/Y:9) Glaucoma: Macula 3D (6x6mm); Disc 3D (6x6mm) Anterior: HD line (6/16mm); Radial lines (6mm)

FUNDUS IMAGING

Methodology	Scanning laser ophthalmoscopy (SLO)
Minimum pupil diameter	3.0 mm
Field of view	45 ± 1 degrees

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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