



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)	5µm in tissue (Optical) / 2.4µm (Digital)
Transverse resolution	15 µm /3µm
A-scan depth	2.4µm 2.5µm
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	Live scanning laser ophthalmoscopy (LSLO)
Minimum pupil diameter	3.0 mm
Field of view	45° degree

VASCAN™ OCTA MODULE

	VASCAN Advance		VASCAN Essential	
Scanning volume/area	3mm x 3mm	256 x 256 A-scans	3mm x 3mm	256 x 256 A-scans
	6mm x 6mm	360 x 360 A-scans	12mm x 8 mm	540 x 360 A-scans
	8mm x 8mm	360 x 360 A-scans		
	12mm x 8 mm	540 x 360 A-scans		
Algorithm	C-OMAG		C-OMAG	
Segmentation options	Encoded, Vitreousretina Interface(VRI), Superfcial retina, Deepfcial retinal, Avascular, Choriocapillaris, Chorioid, Custom, Intermediate			
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 subject to change without notice.

MOPTIM®

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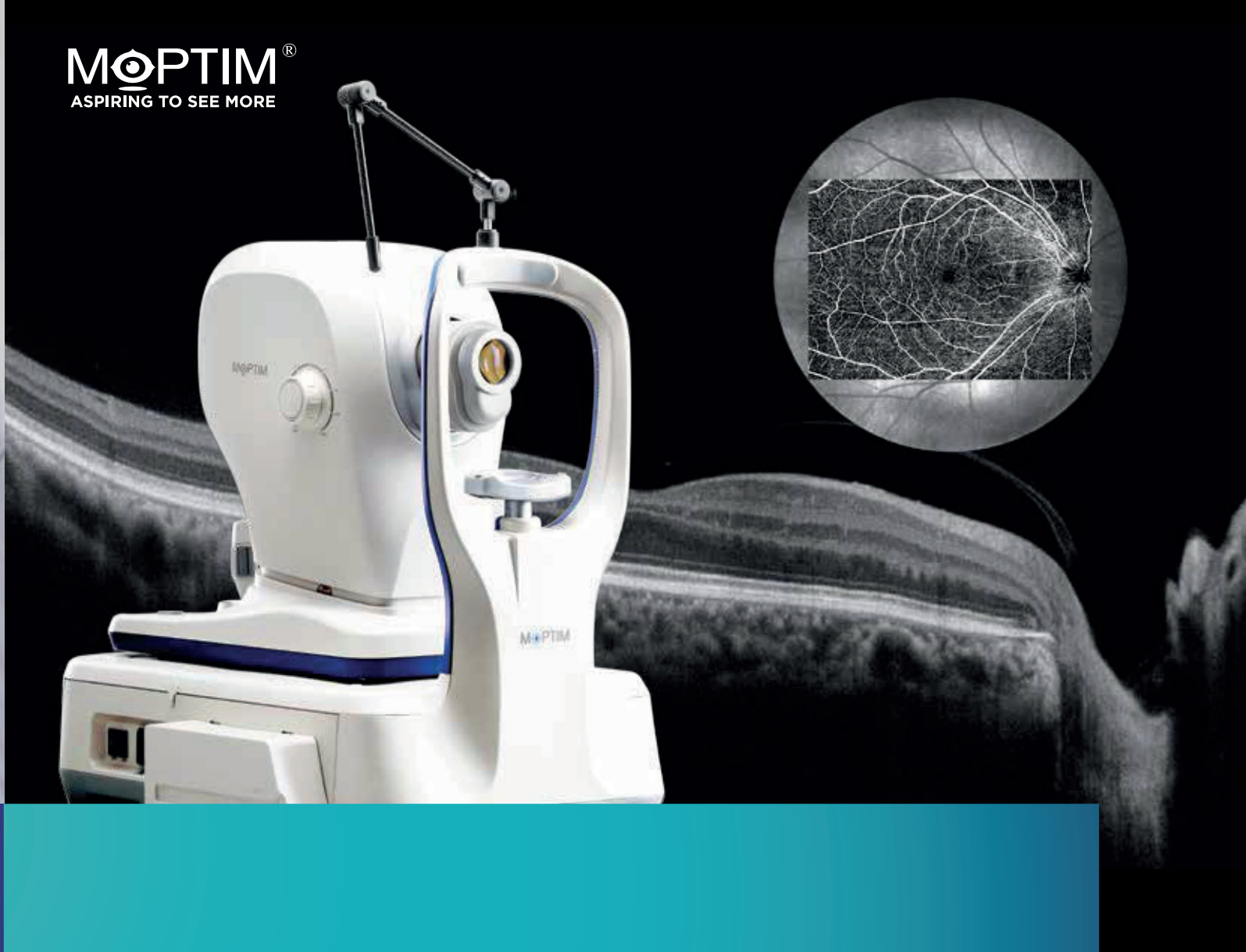
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ASPIRING TO SEE MORE



New
Optical Coherence Tomography

NEW
Eye tracking
& OCTA



Discover more about
Moptim OCT on Youtube

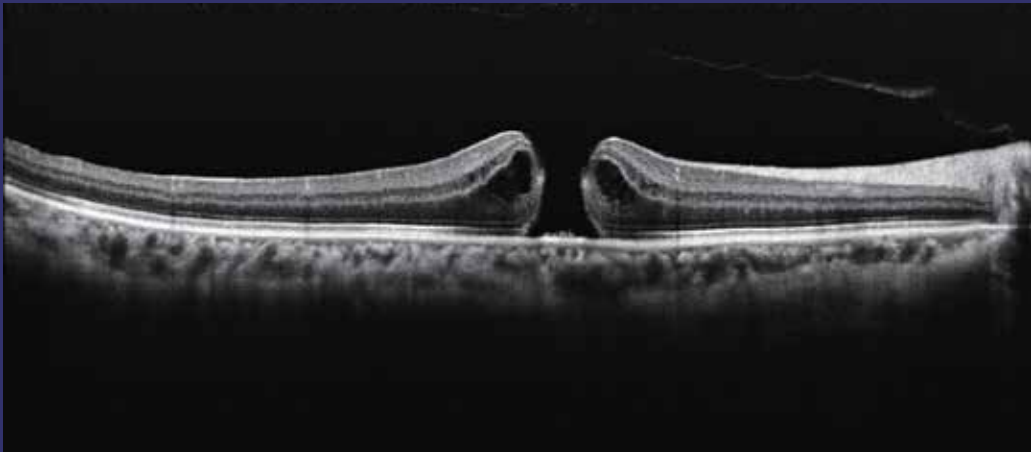
Mscean® 4000 SLO-OCT
with VASCAN OCT Angiography

European Representation

optohellas®
ΟΦΘΑΛΜΟΛΟΓΙΚΑ ΜΗΧΑΝΗΜΑΤΑ

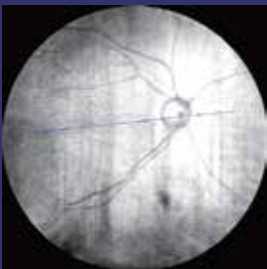
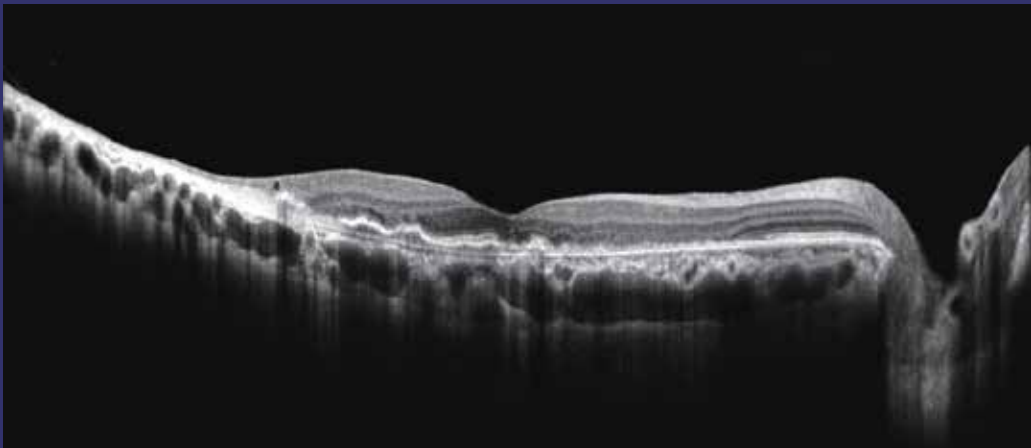
CLINICAL IMAGE COLLECTION

Macular Hole



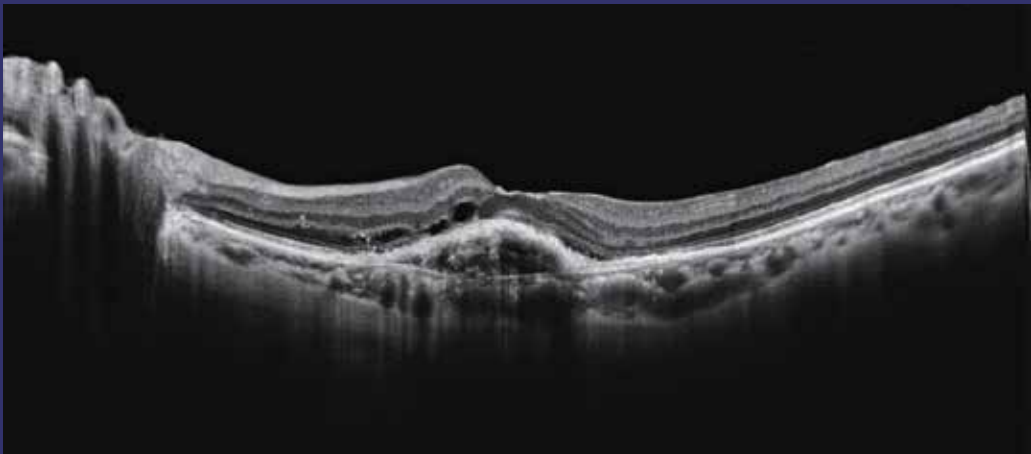
Complete posterior vitreous detachment and hyporeflective intraretinal cysts.

Dry AMD



Several RPE elevations in macula and temporal retinal atrophy.

Wet AMD



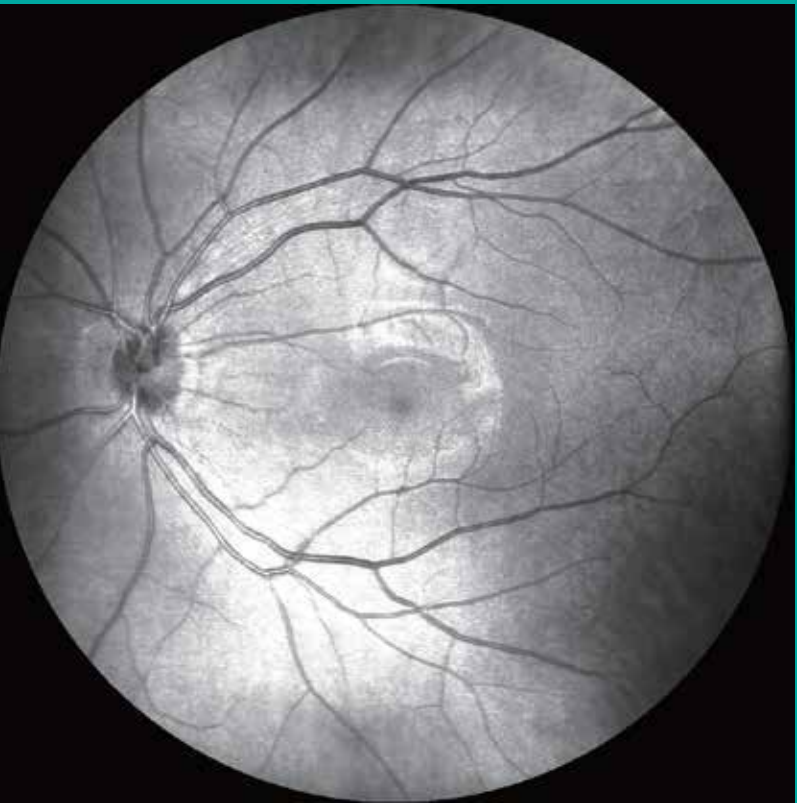
The RPE is discontinuous, and focal moderate-to-high reflectivity in PED can be seen. Cystoid retinal edema with subretinal fluid is on the lesion.

SUPERIORITY
DUE TO
ORIGIN

HD SLO + EYE TRACKING

NEW

- 45° wide range live SLO imaging
- Ultra fine quality retinal imaging using averaging technique(up to 50 images)
- SLO-based real-time retinal tracking effectively reduces artifacts caused by eye movement

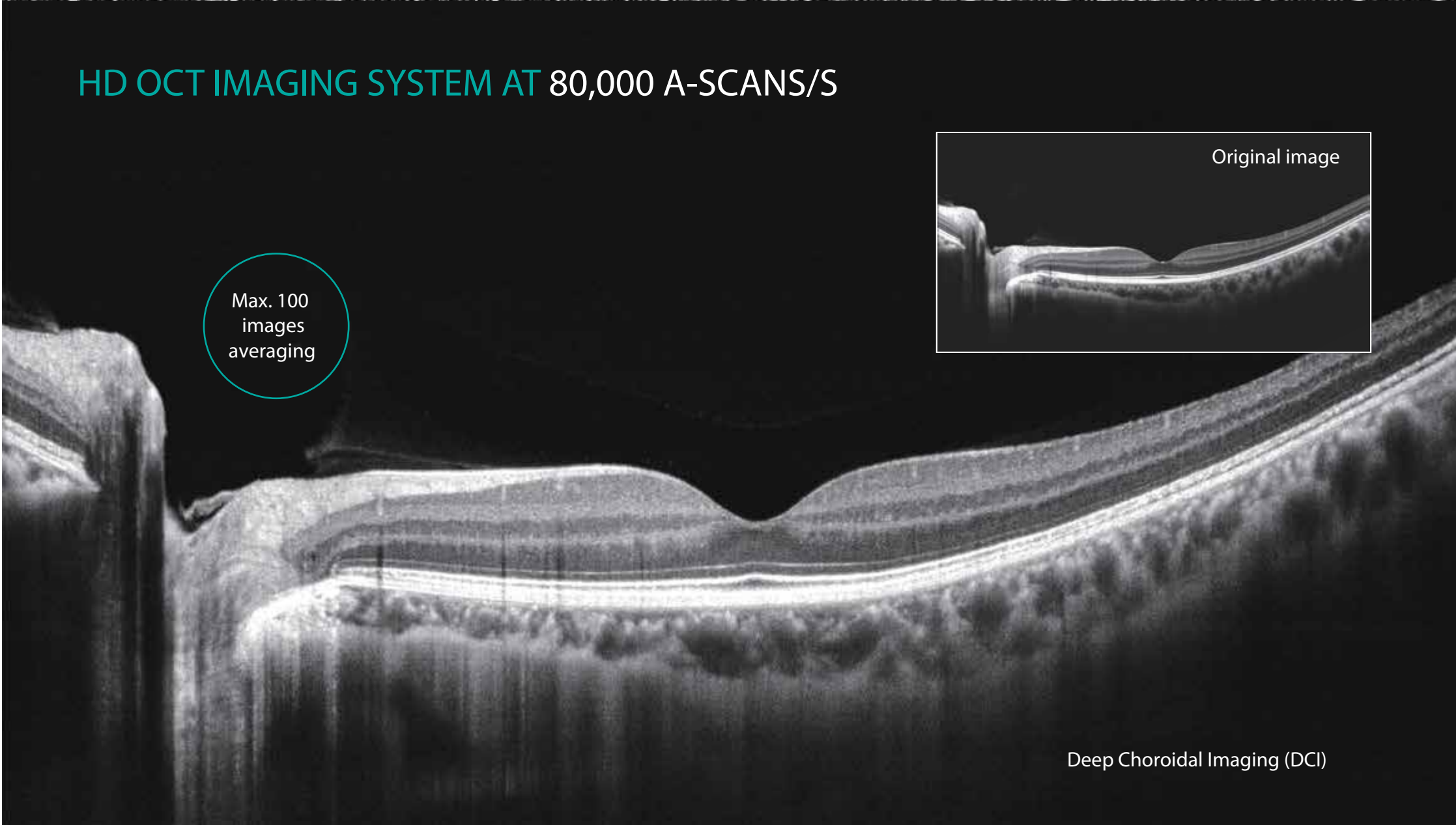


Real-time widefield SLO image

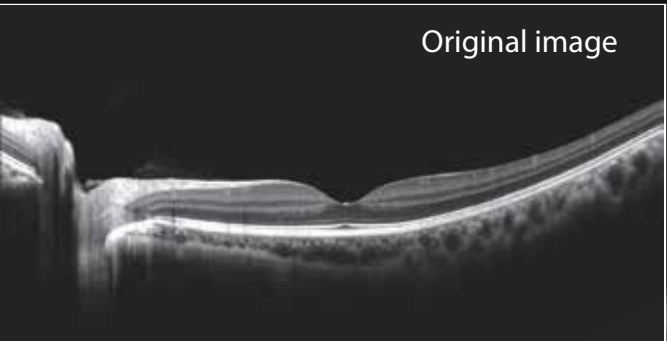


* Requires optional OCTA license

HD OCT IMAGING SYSTEM AT 80,000 A-SCANS/S



Max. 100
images
averaging



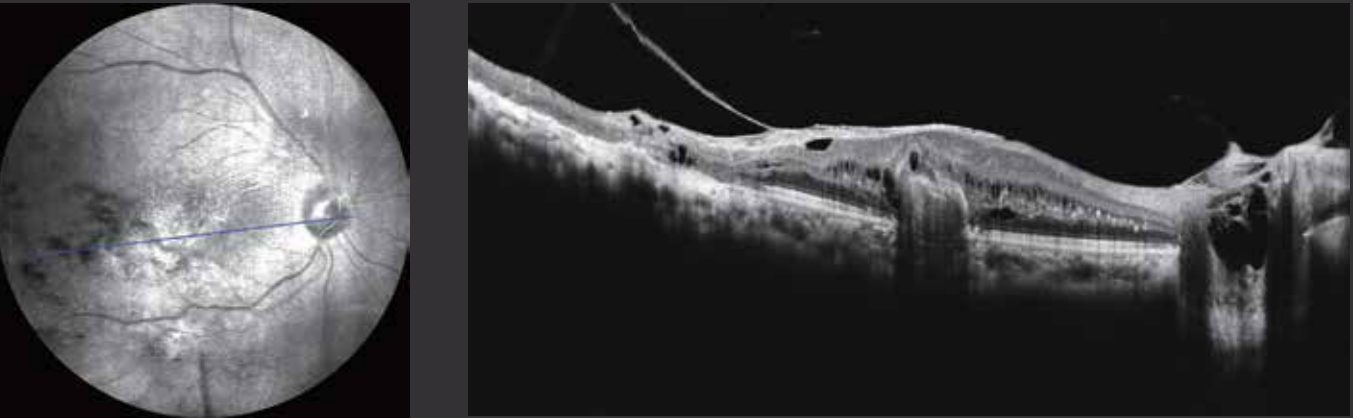
Original image

Deep Choroidal Imaging (DCI)

MACULA

Macula HD line

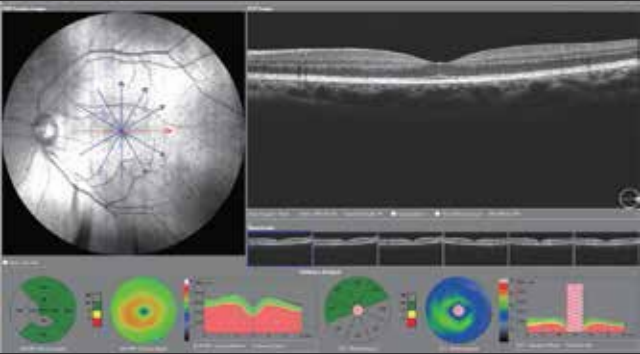
High definition OCT imaging reveals hidden pathological changes



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

Macula Six-line Radial

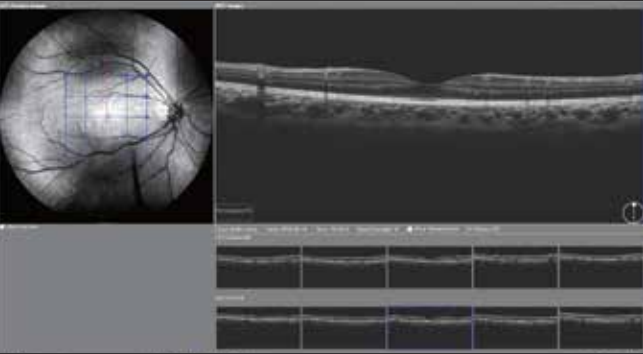
Have a glimpse of the retina via HD imaging and quick data analysis



Macula Multi

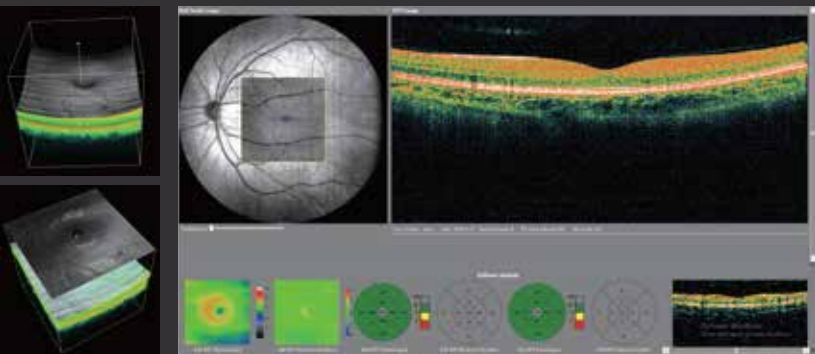
NEW

Multiple HD cross-sectional images acquisition



Macula Cube

A point-by-point assessment of retinal thickness with a 500 x 100 dense cube



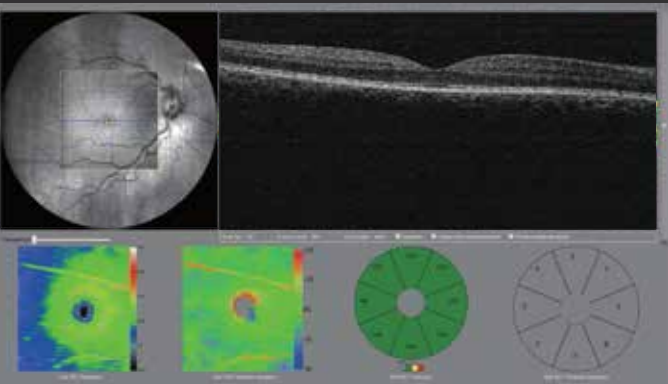
Software Analysis

- Retinal thickness analysis
- Retinal volume analysis
- Progression analysis
- 3D view
- En-face analysis

GLAUCOMA

For comprehensive glaucoma analysis, Mocean 4000 offers two scan patterns, glaucoma cube scan in macular area and glaucoma cube scan in disc area. Evenly distributed sampling point with 200 x 200 A-scans provides reliable information for early glaucoma detection and management.

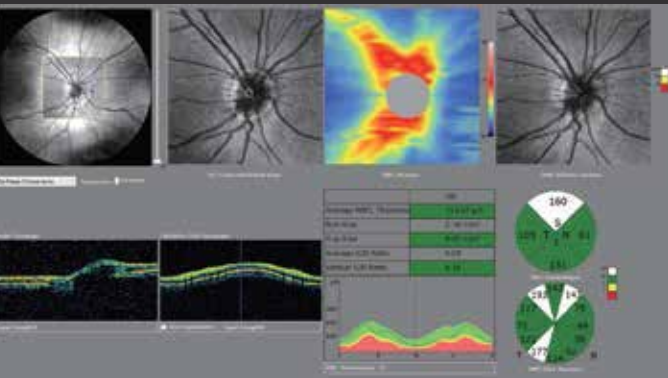
Glaucoma (Macular)



Software Analysis

- Ganglion cell analysis
- Progression analysis

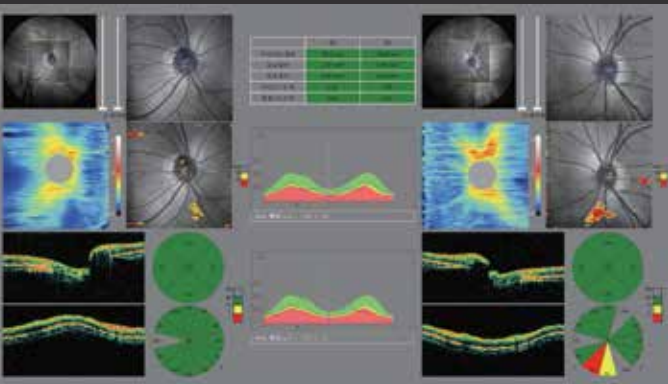
Glaucoma (Disc)



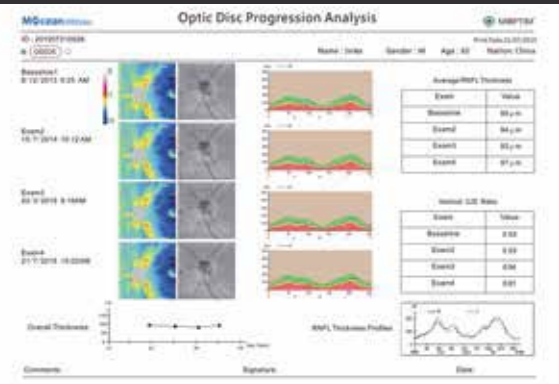
Software Analysis

- RNFL analysis
- Cup-disk analysis
- Calculation circle and circle scan tomogram
- Progression analysis
- OU comparative analysis

Informative Report



OU comparative analysis

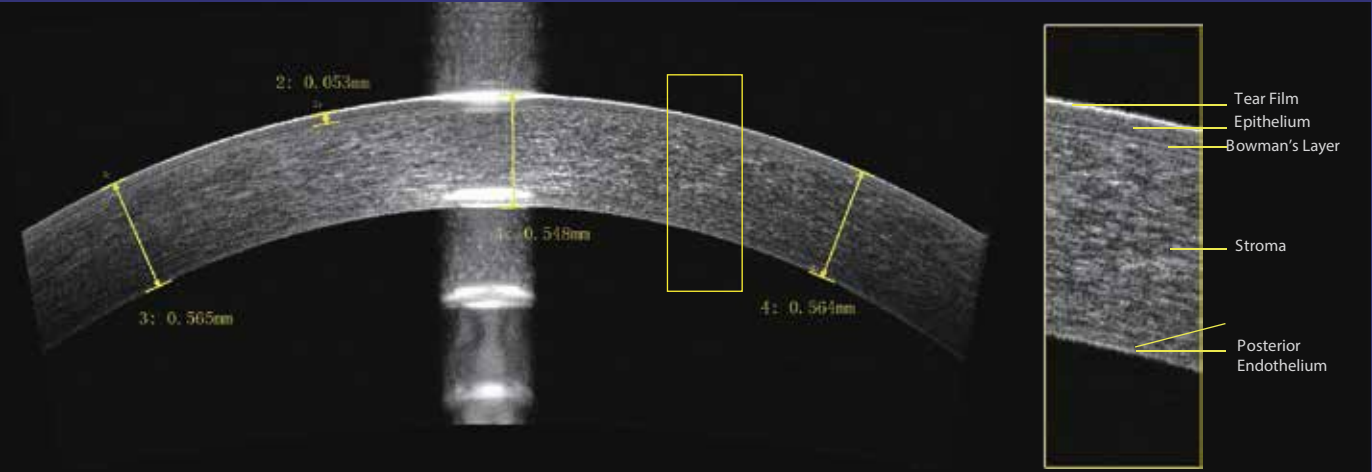


Progression analysis report

ANTERIOR SEGMENT

Anterior HD line

High definition OCT imaging of the cornea enables localization of the Bowman's layer, the interface between corneal stroma and epithelium



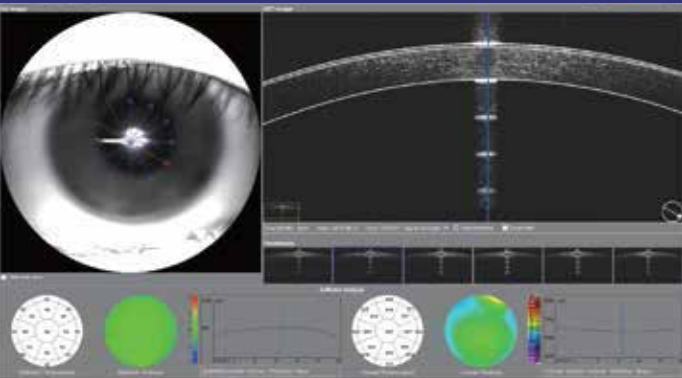
16mm Angle-to-angle scan

NEW



Anterior Six-line Radial

The anterior segment scanning through 6 radial lines of equal length can be used to measure the central corneal thickness



Software Analysis

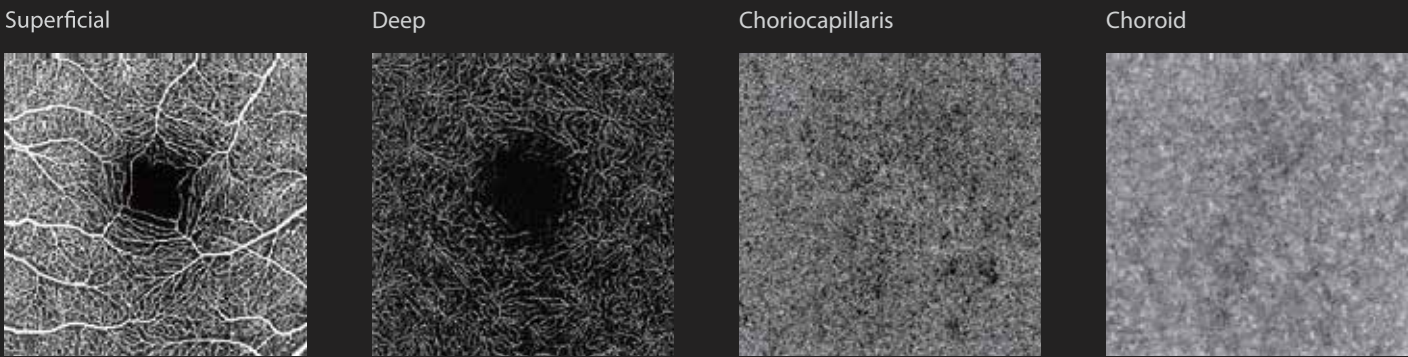
- Corneal thickness analysis
- Manual measurement
- Epithelial thickness analysis

NEW

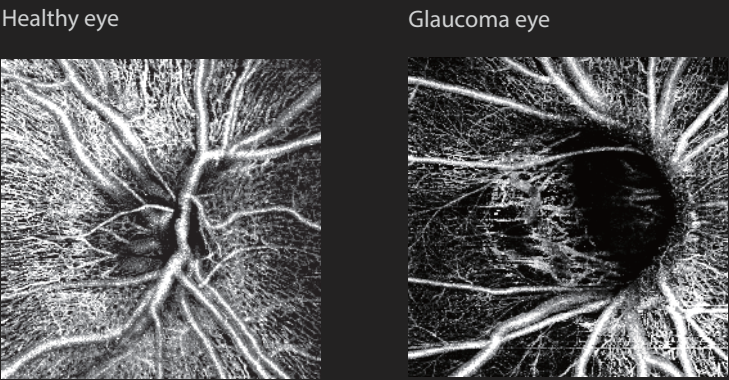
Valuable OCTA for routine clinical practice

Optical Coherence Tomography Angiography (OCTA) is a new non-invasive imaging technique that allows the detailed study of flow within the vascular structure of the eye without the need of dye injections.

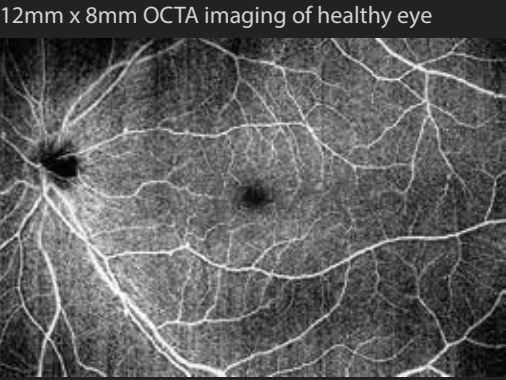
En face flow images of segmented layers



OCT Angiography of the Optic Disc



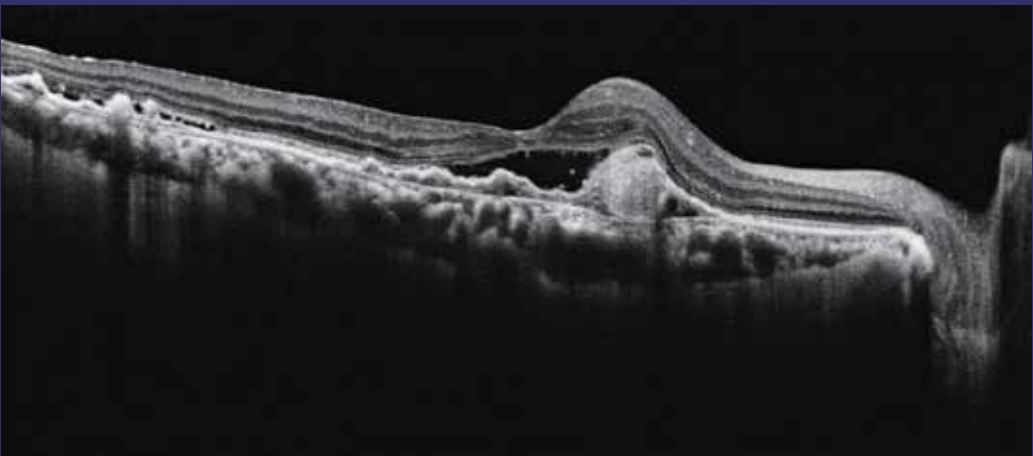
Wide-field OCTA scan



CLINICAL CASES

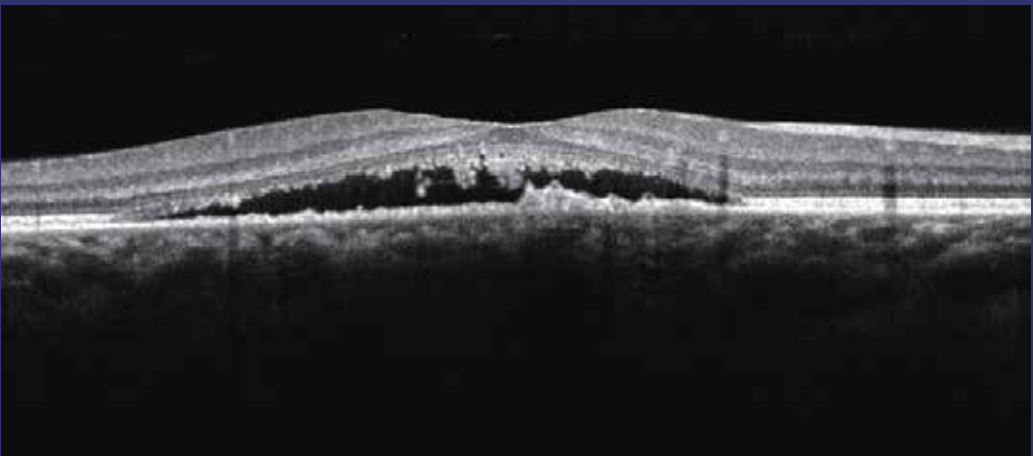


Polypoidal choroidal vasculopathy (PCV)



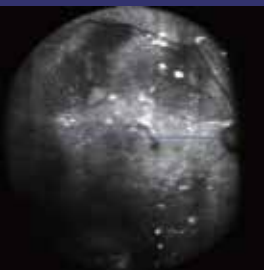
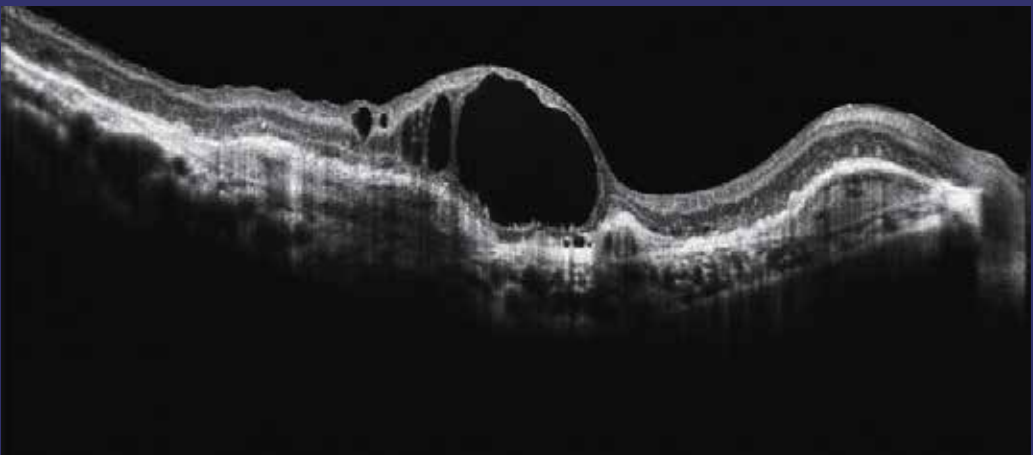
OCT shows dome-shaped PED with a polypoidal lesion inside, which appears as round mild-to-moderate reflective lumen and moderate-to-high reflective wall. Double layer sign is present in the area of macular and temporally. There is subretinal fluid with several punctate hyperreflectivity.

Central Serous Chorioretinopathy (CSC)



Serous neural retinal detachment in the macula with a mass of granular and stalactite-like moderate-to-high reflectivity in the posterior layer of neural retina.

Diabetic Retinopathy (DR)



Cystoid macular edema. Several cysts and disordered retinal structure are seen.

Detailed Hardware and Software Specifications :

Optical coherence tomography:	Spectral Domain OCT HD Widefield
Light source of wavelength:	840 nm
Bandwidth of Light Spectrum:	50 nm
Scanning speed:	80.000 scans/sec
Axial resolution:	5µm in tissue (Optical) / 2.4µm (Digital)
Transverse resolution:	15 µm /3µm
Total scan depth:	3 mm
Scanning range:	3mm to 16 mm (line scan anterior)scan
Minimum scan types:	3D, radial, B-scan, raster, cross
Fundus Image:	LSLO (Live Scanning Laser Ophthalmoscope)
Field Of View :	45° degree
Real Time Eyetracking:	Yes
Shooting mode:	Semi Automatic with Auto OCT signal detection and Image Auto adjust parameters

Retinal analysis:

- RNFL
- Gaglien Cells
- Epithelium Thickness Mapping with Topography Thichness Map
- Cornea Thickness Mapping with Topography Thickness Map
- Automated Pachymetry
- 3D , EnFace
- EDI, Deep Choriod Imaging Modus
- Angle to Angle 16mm
- Macula Cross Beam (Operator can define the distcance to 1µm)

Glaucoma analysis:

- RNFL (thickness of retinal nerve fiber layer),
- ONH (optic nerve head) morphology,
- DDLS (disk damage probability scale)
- Ganglion cells analysis

Front Segment Optical Coherence Tomography (OCT):

- Auto Pachymetry,
- Corneal Flap Measurement after laser refractive surgery (LASIK),
- Ocular angle analysis,
- AIOP ,AOD ,TISA

Front Segment Optical Coherence Tomography (OCT) Wide Scan:

- Angle to Angle 16mm
- HD Line scan,
- 6 Line Radial Scan
- AOD

Optical Micro Angiography (OMAG Algorithm)

Automatic detection of a minimum of 8 retinal layers

- Encoded
- Vitreous
- Superficial
- Deepfcial
- Avascular
- Choriopapillaris
- Choroid
- Intermediate
- and Custom defined from Operator Layer

- VASCAN ESSENTIAL with 3X3 ,12X8 Modus
- VASCAN ADVANCE with 3X3 6X6 8X8 12X8

Modus and Quantitative Statistical Analysis (Density , FAZ, Non Flow)

Minimal pupil size: 3.0mm YES
Focus adjustment range: +20D and -20D

Fixation target:

- Internal fixation(target position can be changed)
- External fixation

All In One PC an integral part of the device / Specs:

- i7 8th generation Intel
- 16GB Ram
- 1050GTC 4GB ATI Graphic
- 120SSD
- 1TB SATA
- 24" IPS Full HD
- 3.0USB
- 3 years warranty for the PC