



New
Optical Coherence Tomography

NEW
Eyetracking
& OCTA



Discover more about
M_{OPTIM} OCT on YouTube

M_{scean}[®] 4000 SLO-OCT
with VASCANOCT Angiography

European Representation

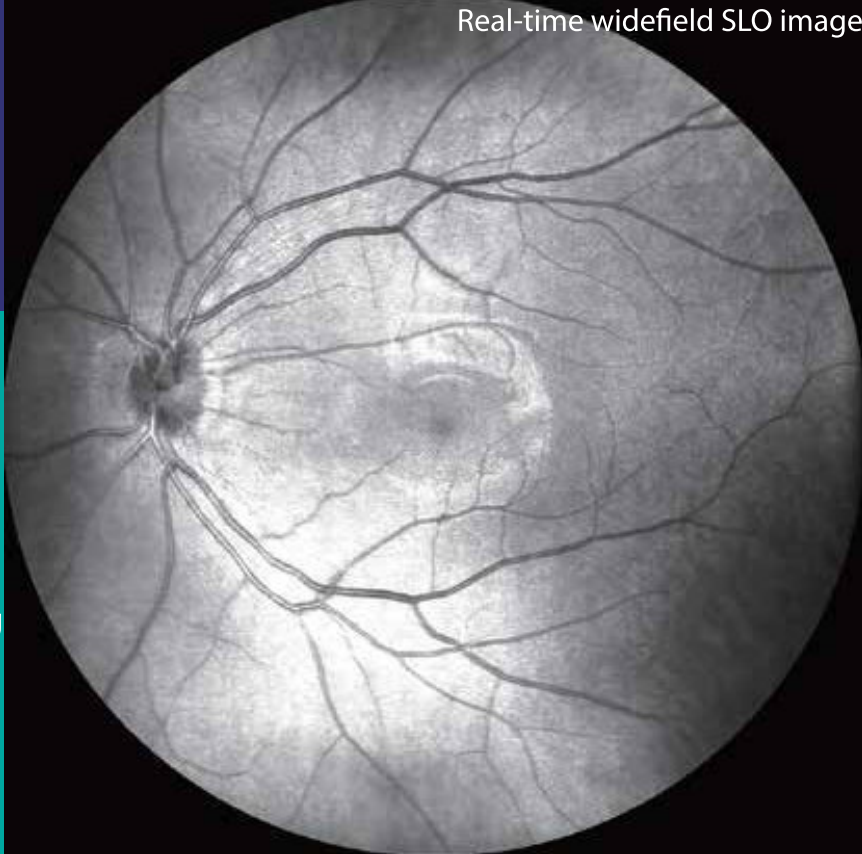
optohellas[®]
ΟΦΘΑΛΜΟΛΟΓΙΚΑ ΜΗΧΑΝΗΜΑΤΑ

SUPERIORITY DUE TO ORIGIN

Real-time widefield SLO image

HD SLO+ EYETRACKING

- 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



NEW

* Requires optional OCTA license



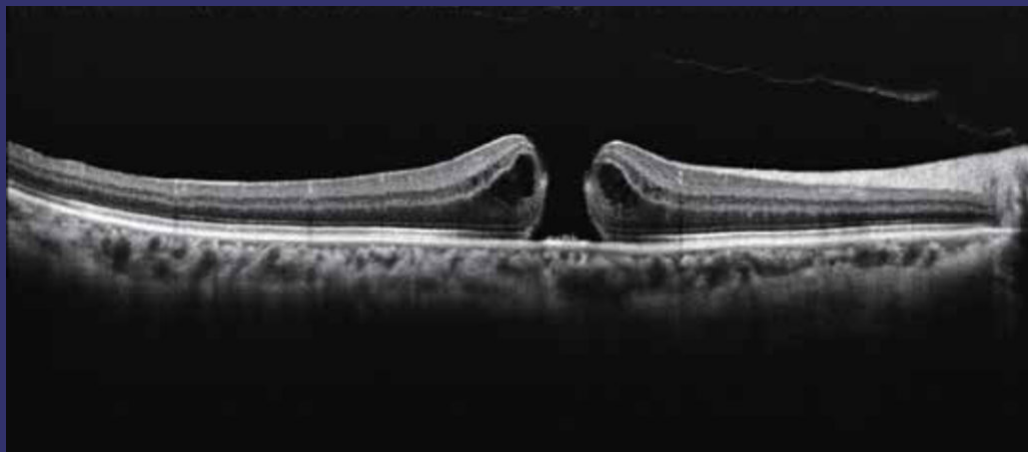
HD OCT IMAGING SYSTEM AT 80,000 A-SCANS/S

Max. 100
images
averaging



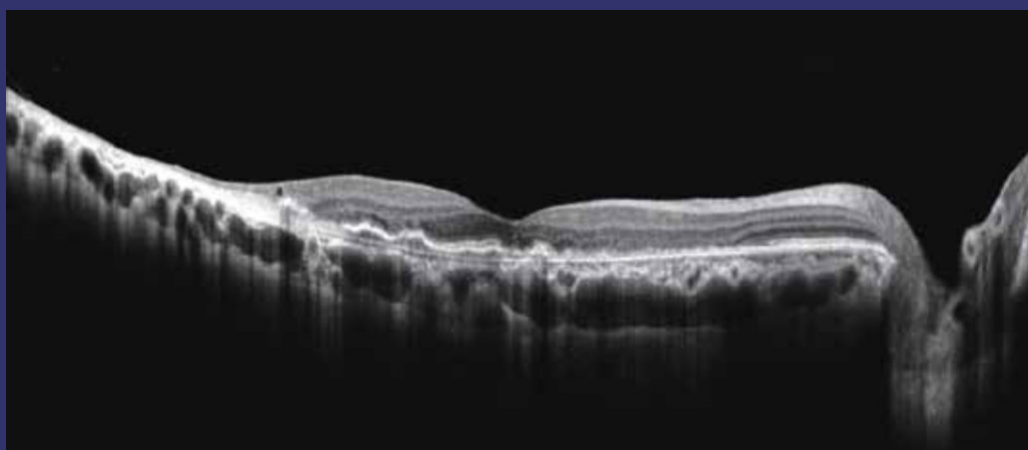
CLINICAL IMAGE COLLECTION

Macular Hole



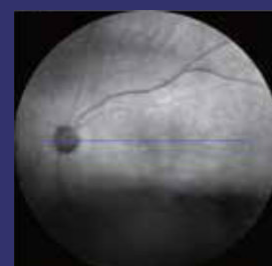
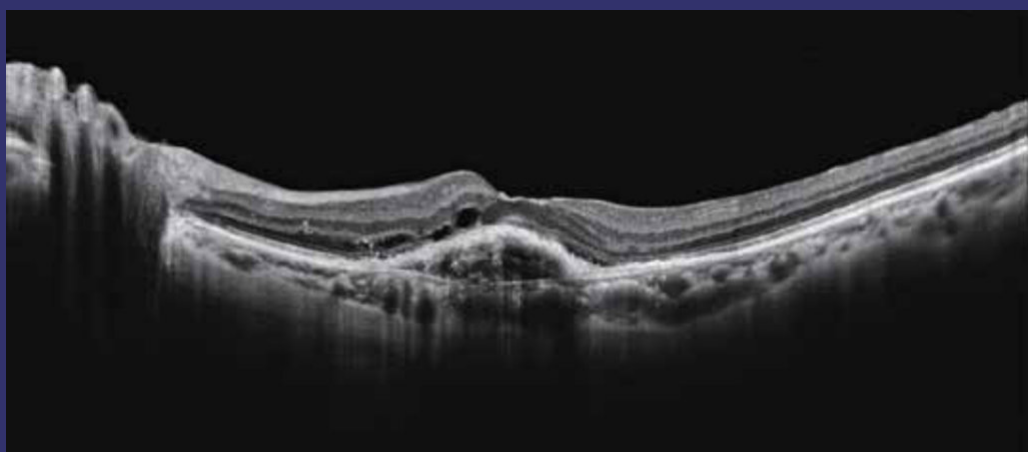
Complete posterior vitreous detachment and hyporeflective intraretinal cysts.

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.

MACULA



Macula HD line

High definition OCT imaging reveals hidden pathological changes

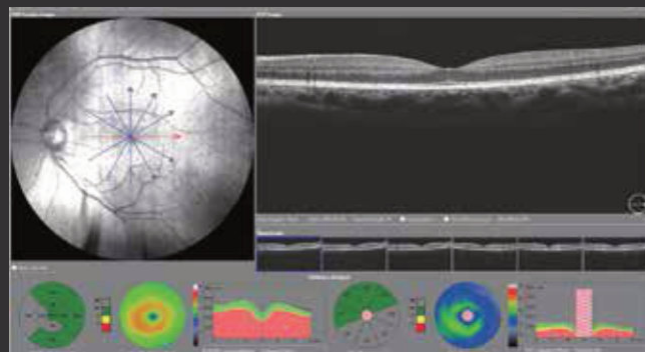


* OCT scan range can be switched between 6 mm and 12 mm



Macula Six-line Radial

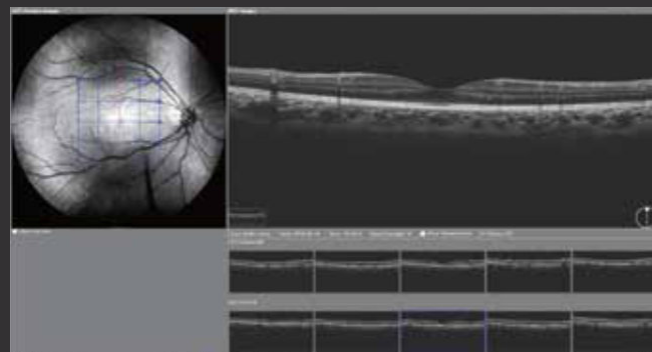
Have a glimpse of the retina via HD imaging and quick data analysis



Macula Multi

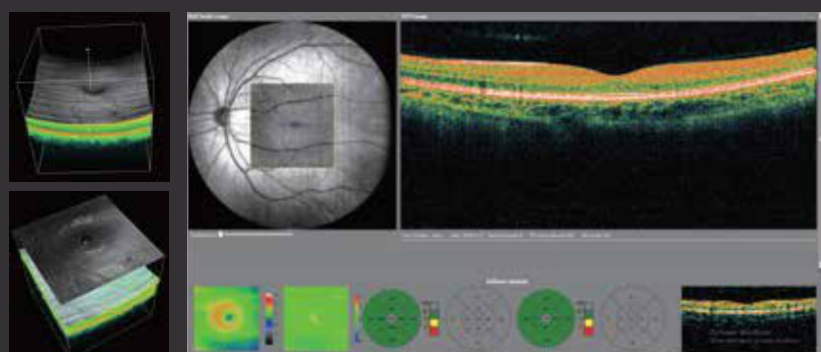
NEW

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

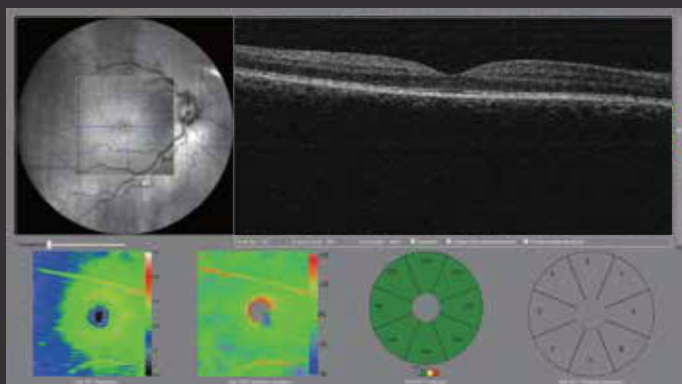
- Retinal thickness analysis
- Retinal volume analysis
- Progression analysis
- 3D view
- En-face analysis

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)

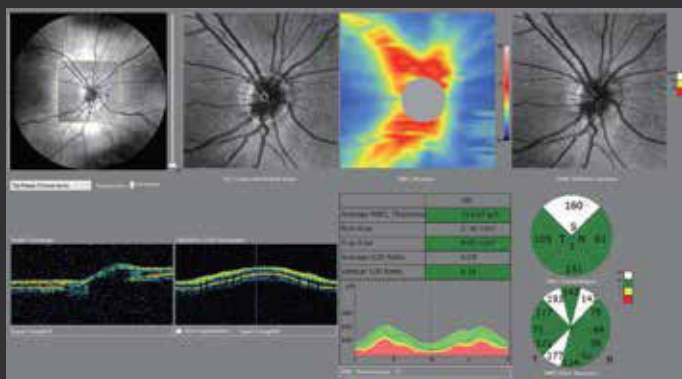


Software Analysis

- Ganglion cell analysis
- Progression analysis



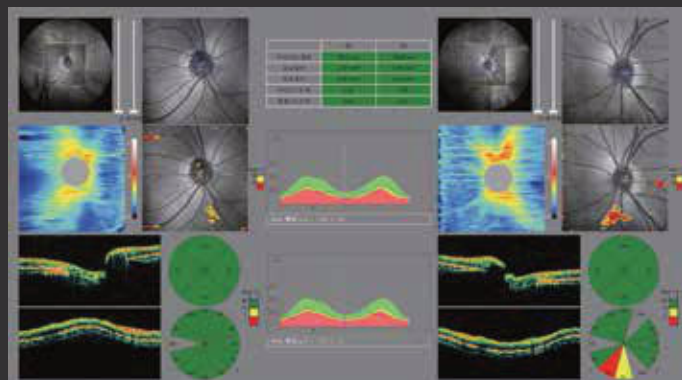
Glaucoma (Disc)



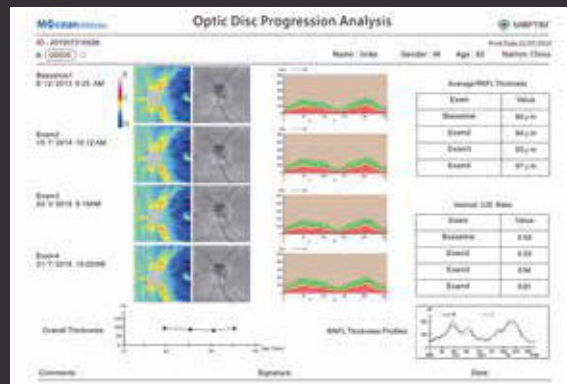
Software Analysis

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

Informative Report



OU comparative analysis



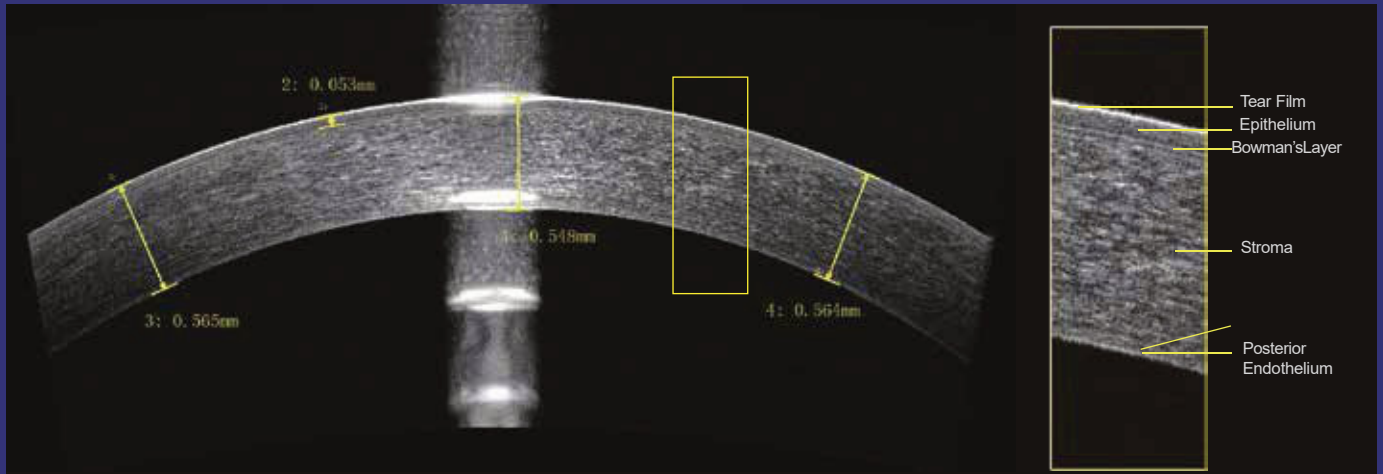
Progression analysis report

ANTERIOR SEGMENT



Anterior HDline

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



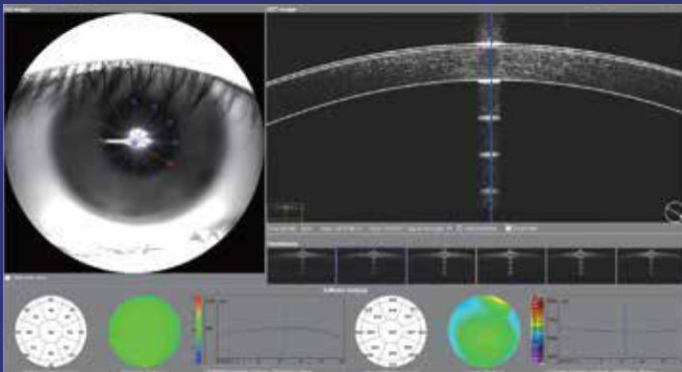
16mm Angle-to-angle scan

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

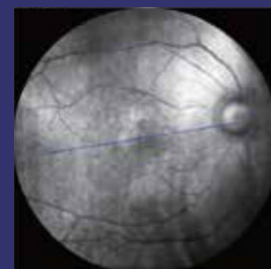
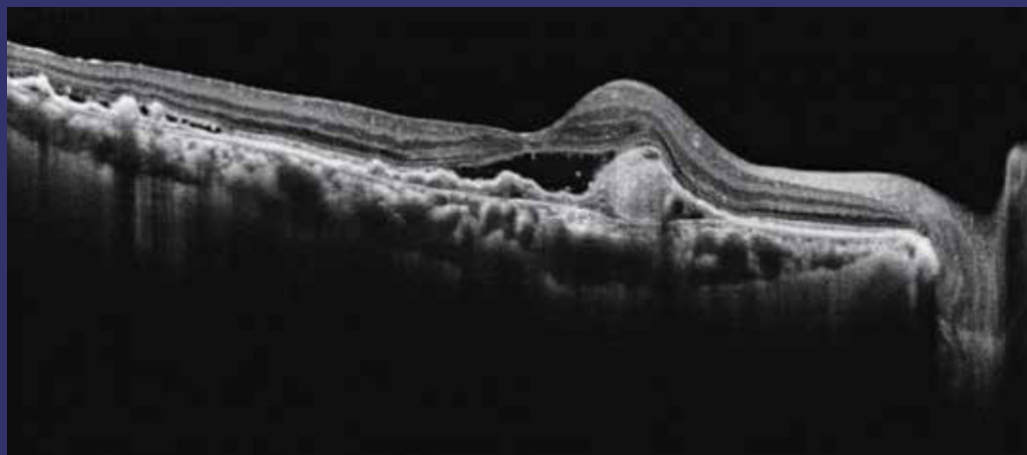


Software Analysis

- Corneal thickness analysis
- Manual measurement
- Epithelial thickness analysis

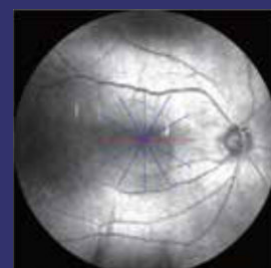
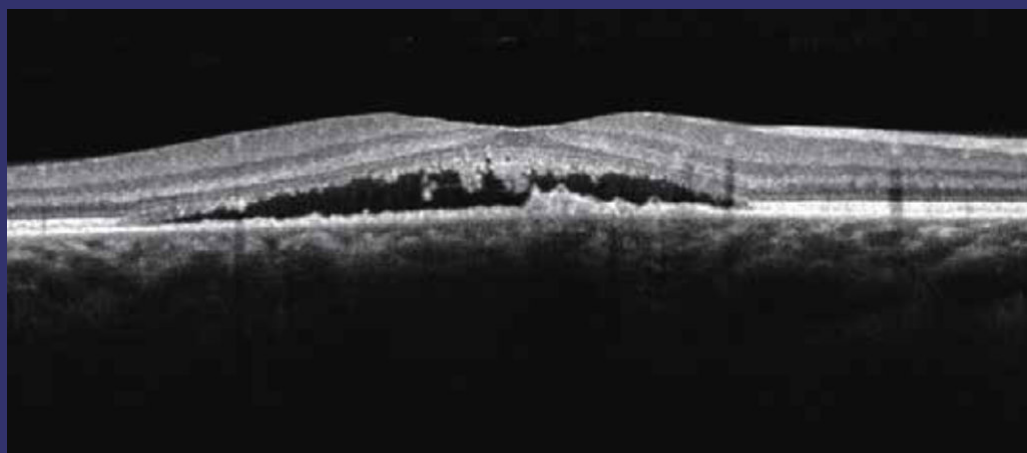
NEW

Polypoidal choroidal vasculopathy (PCV)



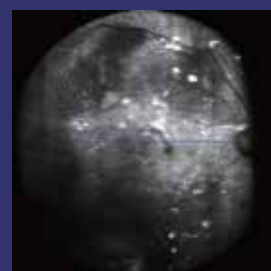
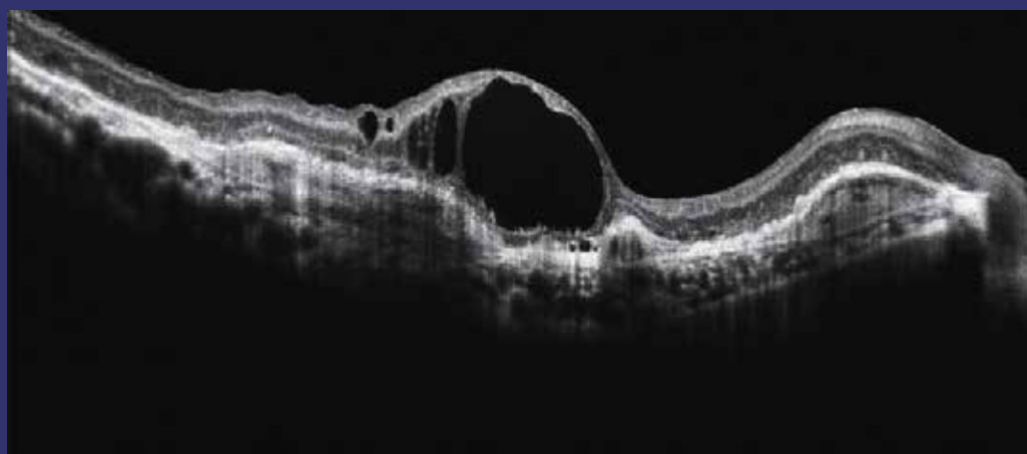
OCT shows dome-shaped PED with a polypoidal lesion inside, which appears as a round mild-to-moderate reflective lumen and moderate-to-high reflective wall. Double layer sign is present in the area of macula and temporally. There is subretinal fluid with several punctate hyperreflectivity.

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)



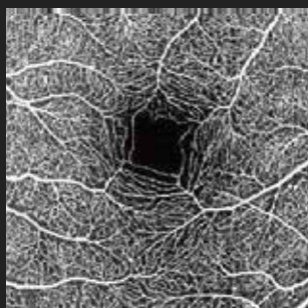
Cystoid macular edema. Several cysts and disordered retinal structure are seen.

Valuable OCTA for routine clinical practice

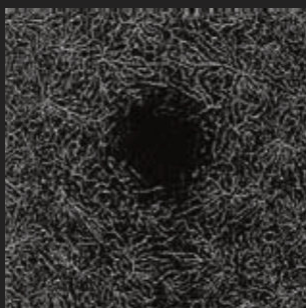
Optical Coherence Tomography Angiography (OCTA) is a new non-invasive imaging technique that allows the detailed study of flow within the vascular structure of the eye without the need of dye injections.

En face flow images of segmented layers

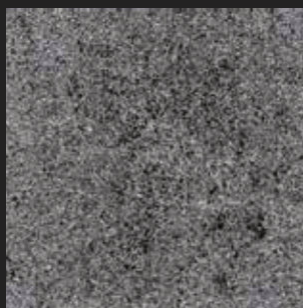
Superficial



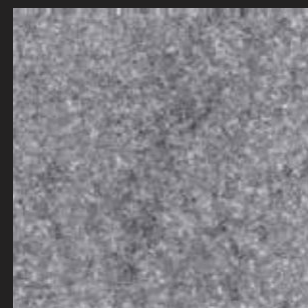
Deep



Choriocapillaris

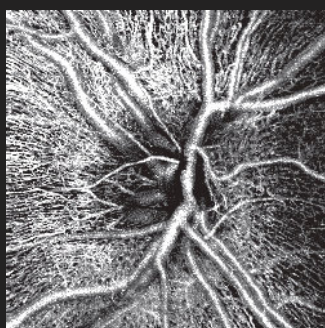


Choroid



OCT Angiography of the Optic Disc

Healthy eye

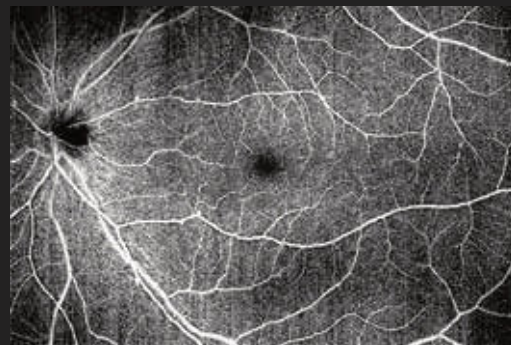


Glaucoma eye



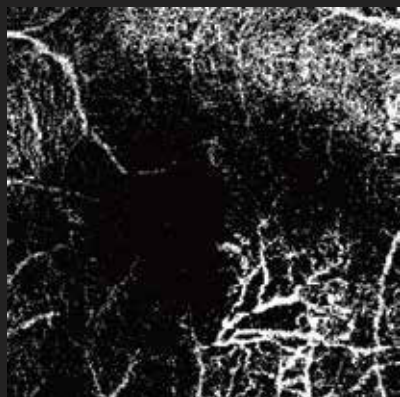
Wide-field OCTA scan

12mm x 8mm OCTA imaging of healthy eye

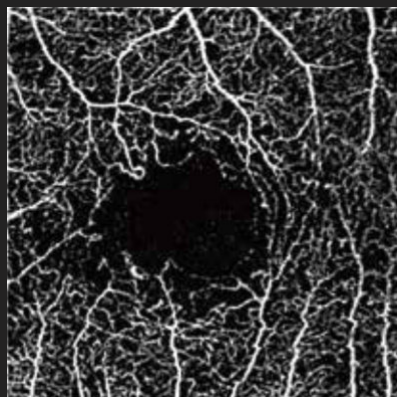


CLINICAL CASES

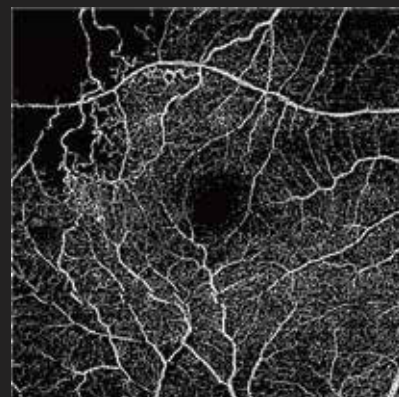
Choriocapillaris (CNV), 3 x 3



Superficial (DR), 3 x 3



Superficial (BRVO), 6 x 6



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

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 Thickness 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 distance to 1µm)

Glaucoma analysis:

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



SPECIFICATIONS

OCTIMAGING

Methodology	Spectral domain OCT
Optical source	Superluminescent diode (SLD),840nm
Scan speed	80,000 A-scans/s
Axial resolution (optical)	5µm in tissue(Optical)/ 2.4µm(Digital)
Transverseresolution	15 µm /3µm
A-scandepth	2.4µm 2.5µm
Diopter range	- 20 to + 20 diopters
Scanpatterns	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

FUNDUSIMAGING

Methodology	Live scanning laser ophthalmoscopy (LSLO)
Minimum pupil diameter	3.0 mm
Field of view	45° degree

VASCAN™OCTA MODULE

	VASCANAdvance		VASCANEssential	
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		C-OMAG	
Segmentationoptions	Encoded, Vitreousretina Intrerface(VRI), Superfcial retina, Deepfcial retinal, Avascular, Choriocapillaris, Choriod, Custom,Intermediate			
Quantitative analysis	Yes		Not available	

ELECTRICAND PHYSICAL

Weight	30.5 kg
Dimension	532 mm (L) x 360 mm (W) x 540 mm (H)
Sourcevoltage	AC100 - 240 V, 50 Hz - 60 Hz
Powerinput	90 VA

Specifications subject to change without notice

MOPTIM®

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