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 degrees

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

MOPTIM®

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MOPTIM®
ASPIRING TO SEE MORE

Optical Coherence Tomography

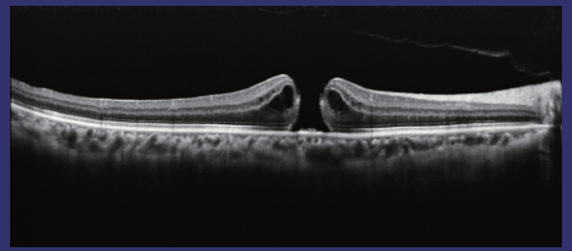
NEW eye tracking & OCTA

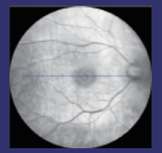
Mocean® 4000 SLO-OCT
with VASCAN OCT Angiography

Discover more about Moptim OCT on Youtube

CLINICAL IMAGE COLLECTION

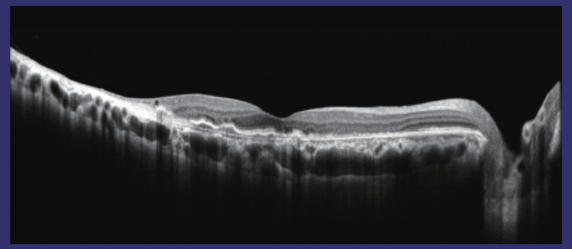
Macular Hole

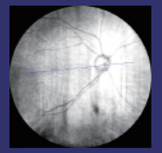




Complete posterior vitreous detachment and hyporeflective intraretinal cysts.

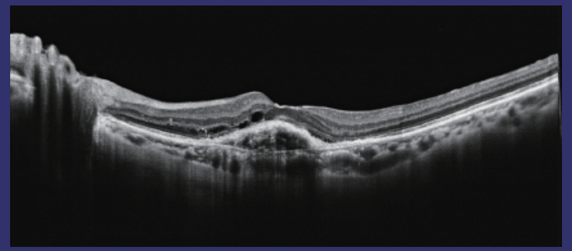
Dry AMD

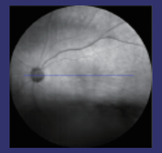




Several RPE elevations in macula and temporal retinal atrophy.

Wet AMD



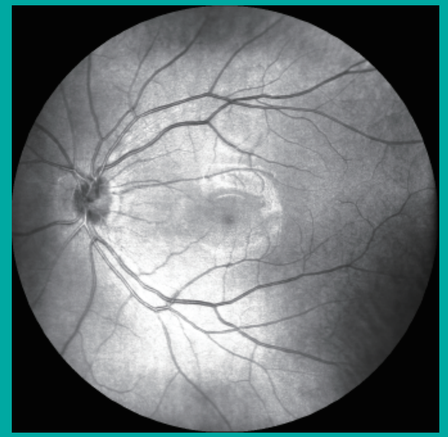


The RPE is discontinuous, and focal moderate-to-high reflectivity in PED can be seen. Cystoid retinal edema with subretinal fluid is on the lesion.

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

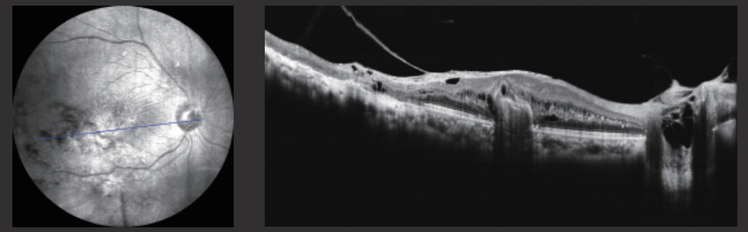
Max. 100 images averaging

Deep Choroidal Imaging (DCI)

MACULA

Macula HD line

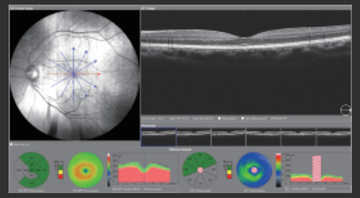
High definition OCT imaging reveals hidden pathological changes



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

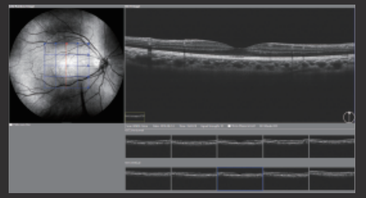
Macula Six-line Radial

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



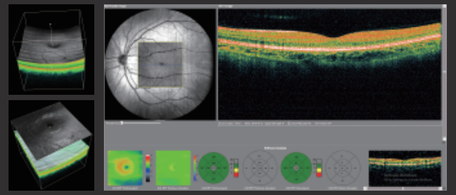
Macula Multi NEW

Multiple HD cross-sectional images acquisition



Macula Cube

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



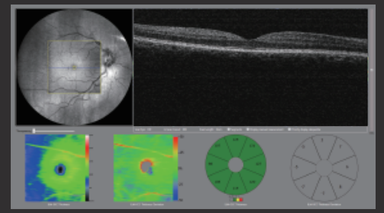
Software Analysis

- 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.

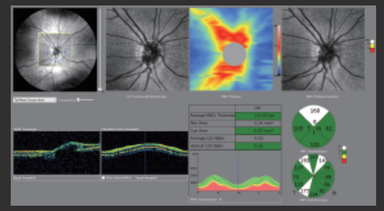
Glaucoma (Macular)



Software Analysis

- Ganglion cell analysis
- Progression analysis

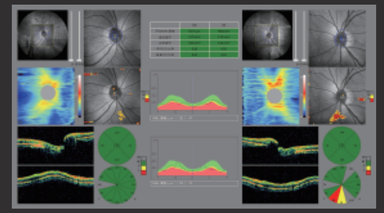
Glaucoma (Disc)



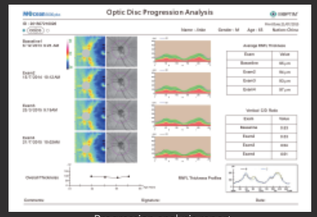
Software Analysis

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

Informative Report



OU comparative analysis

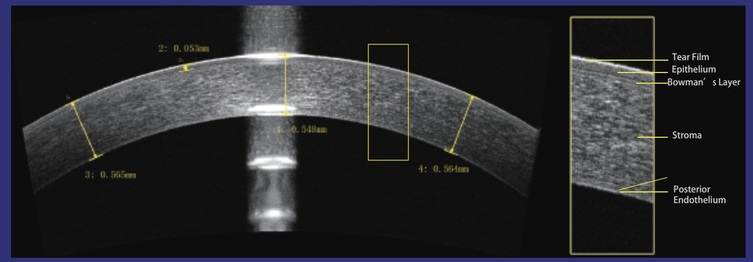


Progression analysis report

ANTERIOR SEGMENT

Anterior HD line

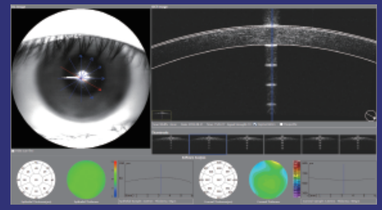
High definition OCT imaging of the cornea enables localization of the Bowman's layer, the interface between corneal stroma and epithelium



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

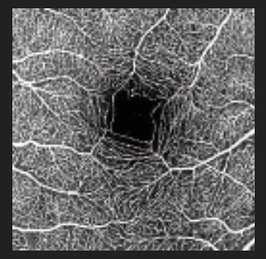
VASCAN™ OCT ANGIOGRAPHY NEW

Valuable OCTA for routine clinical practice

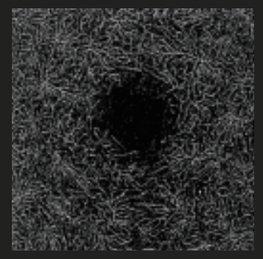
Optical Coherence Tomography Angiography (OCTA) is a new non-invasive imaging technique that allows the detailed study of flow within the vascular structure of the eye without the need of dye injections.

En face flow images of segemented layers

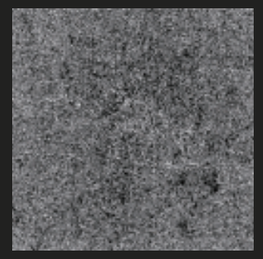
Superficial



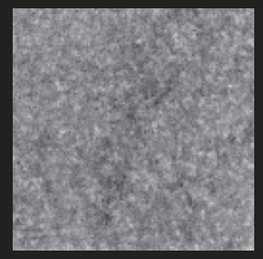
Deep



Choriocapillaris

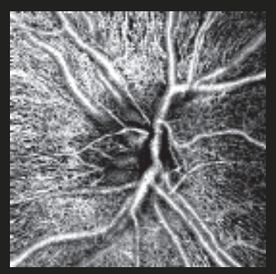


Choroid



OCT Angiography of the Optic Disc

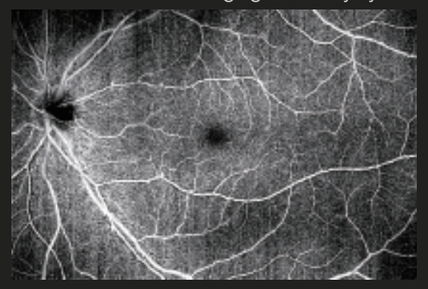
Healthy eye



Glaucoma eye

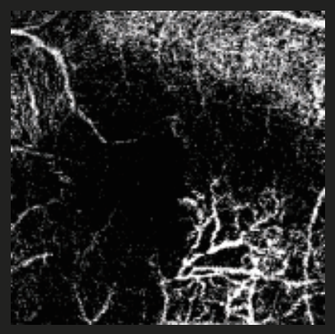
Wide-field OCTA scan

12mm x 8mm OCTA imaging of healthy eye

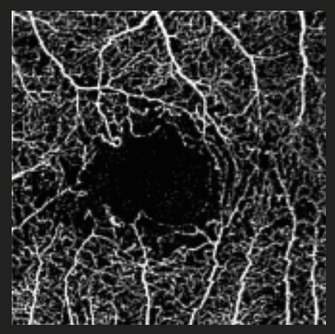


CLINICAL CASES

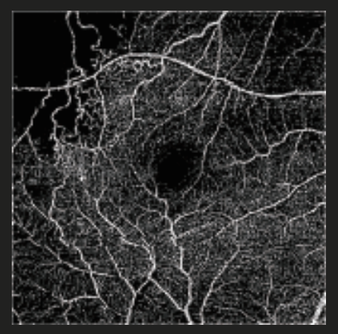
Choriocapillaris (CNV), 3 x 3



Superficial (DR), 3 x 3

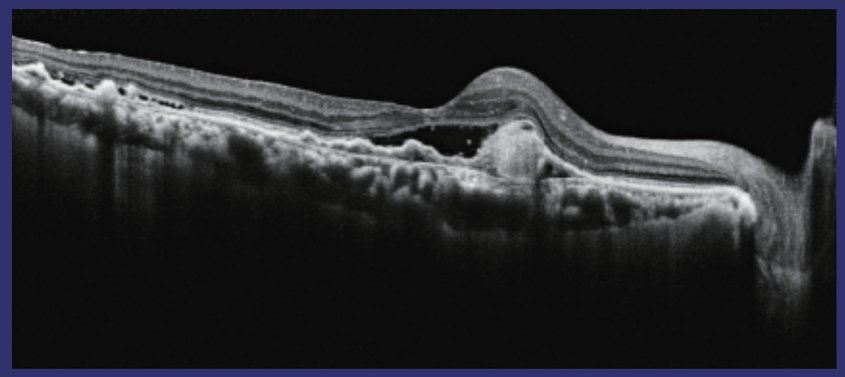


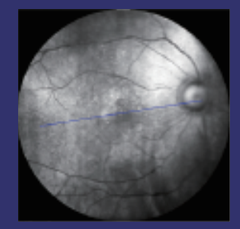
Superficial (BRVO), 6 x 6



Clinical images courtesy of Peking University Shenzhen Hospital

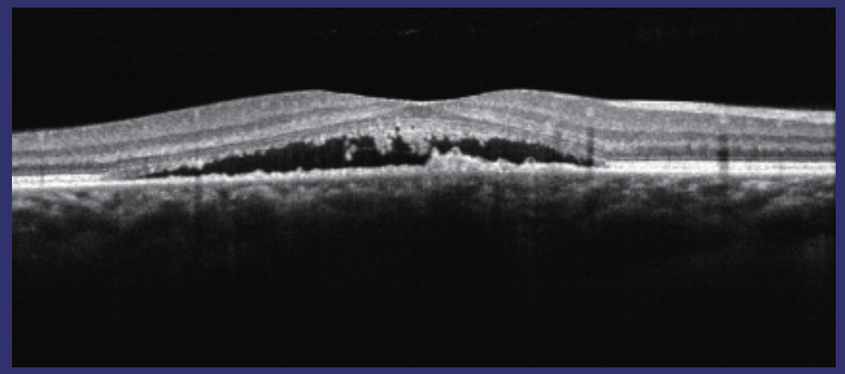
Polypoidal choroidal vasculopathy (PCV)

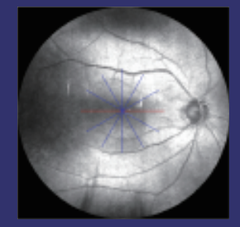




OCT shows dome-shaped PED with a polypoidal lesion inside, which appears as round mild-to-moderate reflective lumen and moderate-to-high reflective wall. Double layer sign is present in the area of macular and temporally. There is subretinal fluid with several punctate hyperreflectivity.

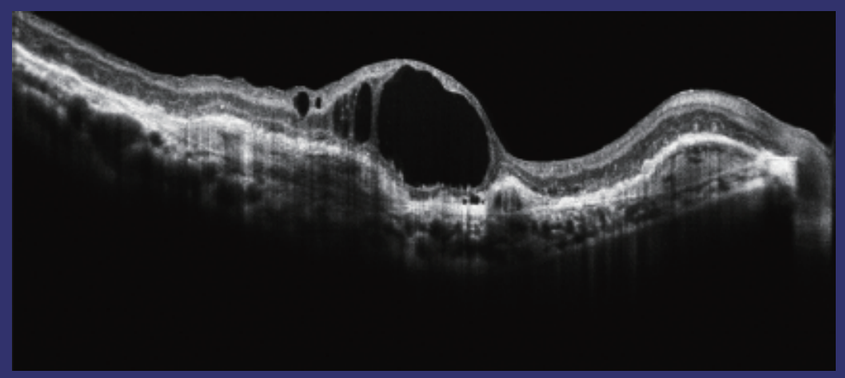
Central Serous Chorioretinopathy (CSC)

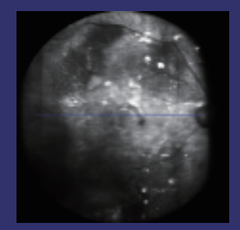




Serous neural retinal detachment in the macula with a mass of granular and stalactite-like moderate-to-high reflectivity in the posterior layer of neural retina.

Diabetic Retinopathy (DR)





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

Clinical images courtesy of Peking Union Medical College Hospital