

SPECIFICATIONS

OCT IMAGING

Methodology	Spectral-domain OCT
Optical source	Super luminescent diode (SLD) 690 nm
Scan speed	80,000 A-scans/sec
Axial resolution (optical)	5 microns (optical), 3.6 microns (digital)
Transverse resolution	15 microns (optical), 3 microns (digital)
A-scan depth	3 mm
Display range	100 sec x 30 degrees
Scan patterns	Macular: HD line scan (6 x 12 mm), 3D scan (6 mm x 6 mm), 4-line radial scan, Multi-PCY (3 x 3) Disc: 3D scan (6 mm x 6 mm) Anterior: HD line scan (6 x 14 mm), A-line radial scan

FUNDUS IMAGING

Methodology	Live scanning laser ophthalmoscopy (LSLO)
Minimum pupil diameter	3.0 mm
Field of view	60 degrees

VASCAN™ OCTA MODULE

	VASCAN Advanced	VASCAN Essential
Scanning volume/area	3mm x 3mm 4mm x 4mm 6mm x 6mm 12mm x 6 mm	3mm x 3mm 12mm x 8 mm 256 x 256 A-scans 340 x 360 A-scans
Algorithm	C-OMAGS	C-OMAGS
Segmentation options	Encompass, Vascular retina, inner/outer/IRIS, Superficial retina, Deep/deep retinal, Plexus/plex, Choriocapillaris, Choroid, Chorioret.	
Quantitative analysis	Yes	Not available

ELECTRICAL AND PHYSICAL

Weight	30.5 kg
Dimension	542 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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החברת מופטימ

י.ד.י. שותף אופטיקה בע"מ
ציוד אופטומטרי ורפואי

MOPTIM®
ASPIRING TO SEE MORE



Optical Coherence Tomography

NEW
eye tracking
& OCTA

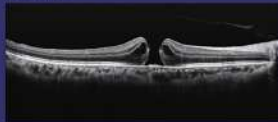
Mscean® 4000 SLO-OCT
with VASCAN OCT Angiography



Learn more about
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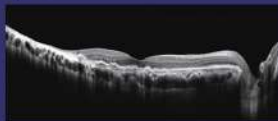
CLINICAL IMAGE COLLECTION

Macular Hole



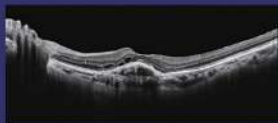
Complete posterior vitreous detachment and hyperreflective preretinal cysts

Dry AMD



Several RPE elevations in the macula and temporal area of drusen

Wet AMD



The RPE is discontinuous and fluid accumulation is high. Effectively in SLO can be seen. Colored retinal images with subretinal fluid is on the bottom

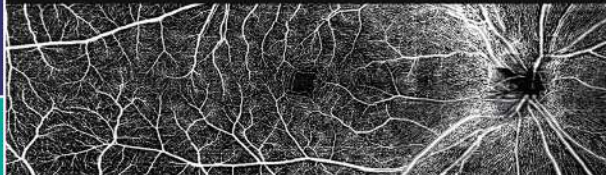
SUPERIORITY DUE TO ORIGIN

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

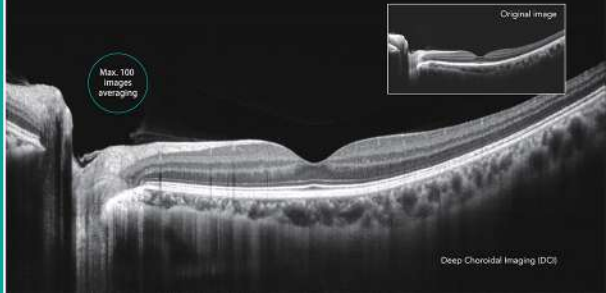


Real-time widefield SLO image



* Requires optional OCTA license

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



Original image

Max. 100
images
averaging

Deep Choroidal Imaging (DCI)

MACULA

Macula HD line

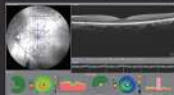
High definition OCT imaging reveals subtle pathologic changes



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

Macula Six-line Radial

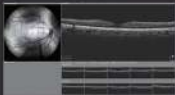
Real-time glimpse of the retina via HD imaging and AI/ML data analysis



Macula Multi

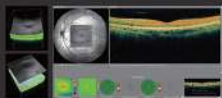
NEW

Multiple HD cross-sectional image acquisition



Macula Cube

* Acquisition path perpendicular to central fovea with a 500 x 100 degree cube

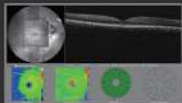


Software Analysis
Retinal thickness analysis
Retinal volume analysis
Progression analysis
3D view
Di-Fuse analysis

GLAUCOMA

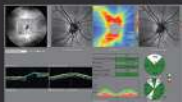
For comprehensive glaucoma analysis, Micros 4000 offers two scan patterns: glaucoma cube scan in macular area and glaucoma cube scan in the area. Every scheduled scanning point with 200 x 200 A-scans provides reliable information for early glaucoma detection and management.

Glaucoma (Macular)



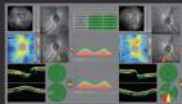
Software Analysis
Biomass cell analysis
Progression analysis

Glaucoma (Disc)

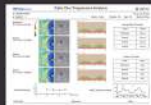


Software Analysis
RNFL analysis
Disc area analysis
Calculation circle and circle size tolerance
Progression analysis
Disc comprehensive analysis

Informative Report



3D comprehensive analysis

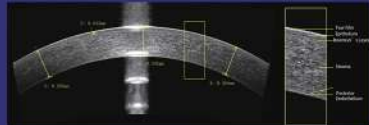


Progression analysis report

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



Dark-field corneal scan

NEW



Anterior Six-line Radial

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



Software Analysis
Central thickness analysis
Material measurement
Radial thickness analysis

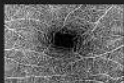
NEW

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

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

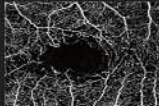


CLINICAL CASES

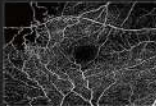
Choriocapillaris (CNV), 3 x 3



Superficial (DR), 3 x 3

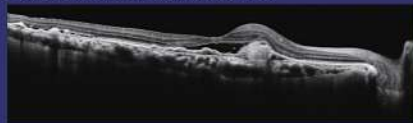


Superficial (BRVO), 6 x 6



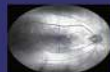
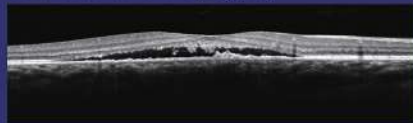
Clinical images courtesy of Peking University Shenzhen Hospital

Polypoidal choroidal vasculopathy (PCV)



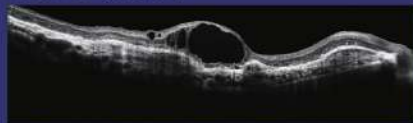
OCT shows a dome shaped PED with a polypoidal lesion inside, which appears as a small solid to moderate reflective lesion and moderate to high reflective wall. Occluding layer is present at the area of macula and temporally. There is subretinal fluid with several punctate hyperreflectivity.

Central Serous Choroidopathy (CSC)



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

Diabetic Retinopathy (DR)



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

Clinical images courtesy of Peking University Shenzhen Hospital