

M^oPTIM



Optical Coherence Tomographer

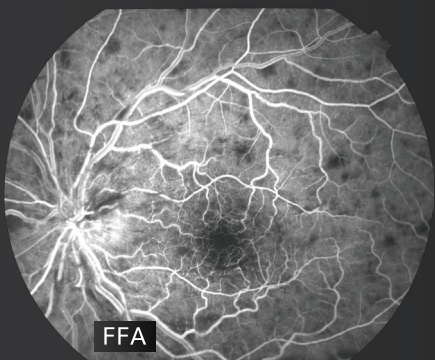
Mscean[®] 4000 SLO-OCT

VASCAN[™]
ANGIOGRAPHY



Moptim VASCAN widefield angiography montage

Image courtesy of Dr. Bin Zhang, Peking University Shenzhen Hospital, Shenzhen, China



VASCANTM
ANGIOGRAPHY

* OCT angiography is an optional module for Mocean 4000

WIDER, DEEPER, AND MORE POWERFUL



FULL RANGE

16mm scan width, 7.36mm scan depth (in tissue) enables the anterior chamber imaging in one shot



INCREASED SCAN DEPTH

3.1mm depth enables clear choroid layer imaging, improving high myopic eye capabilities



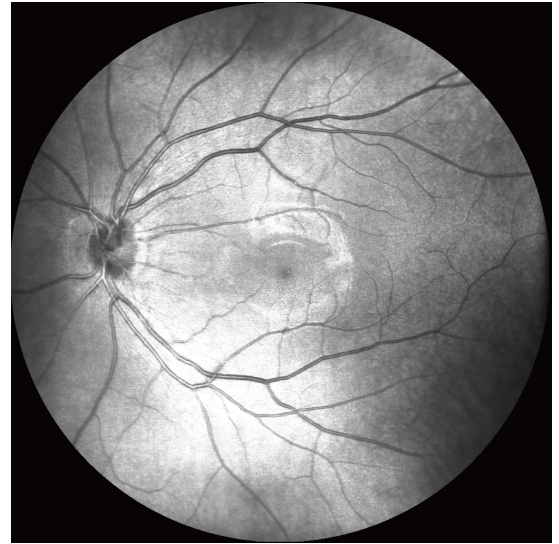
ACCURATE

45° SLO-based eye tracker enables physicians to identify lesions and perform accurate follow-up

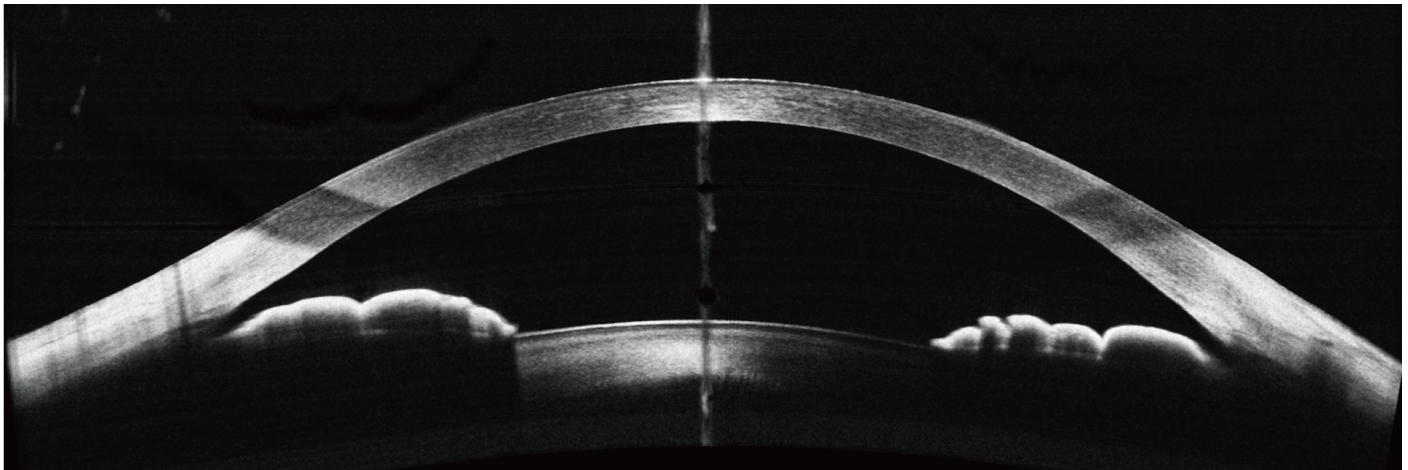


POWERFUL

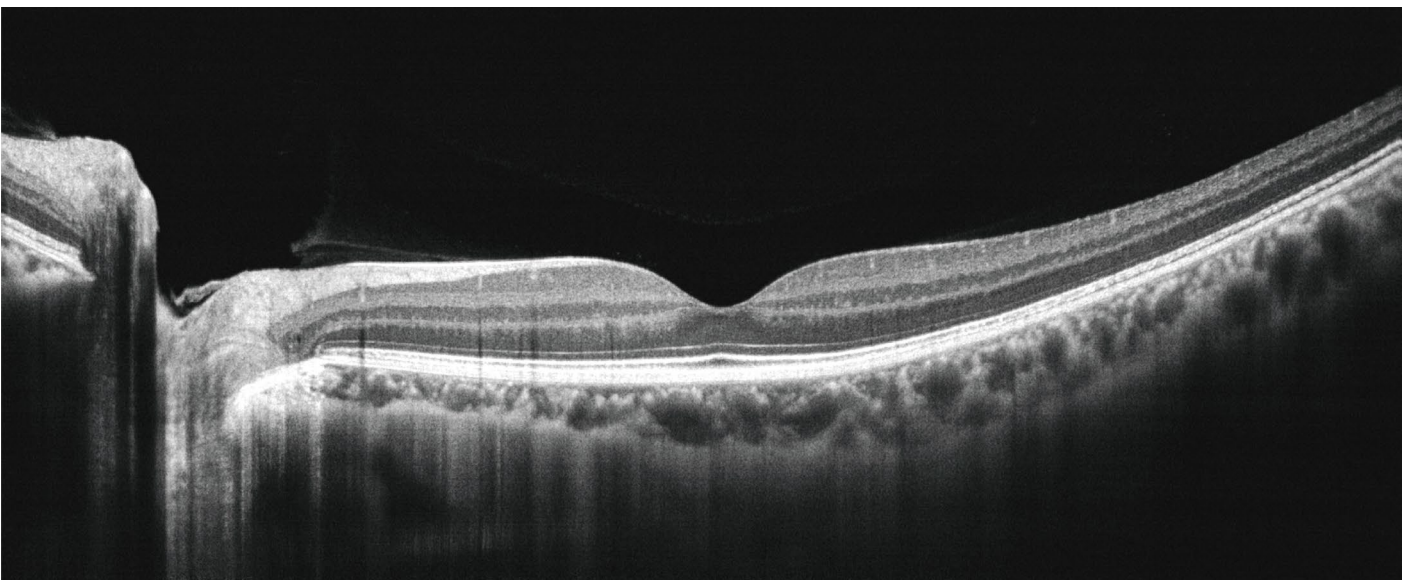
Comprehensive analytical tools for glaucoma, anterior segment



45° real-time SLO imaging



16mm full range corneal imaging

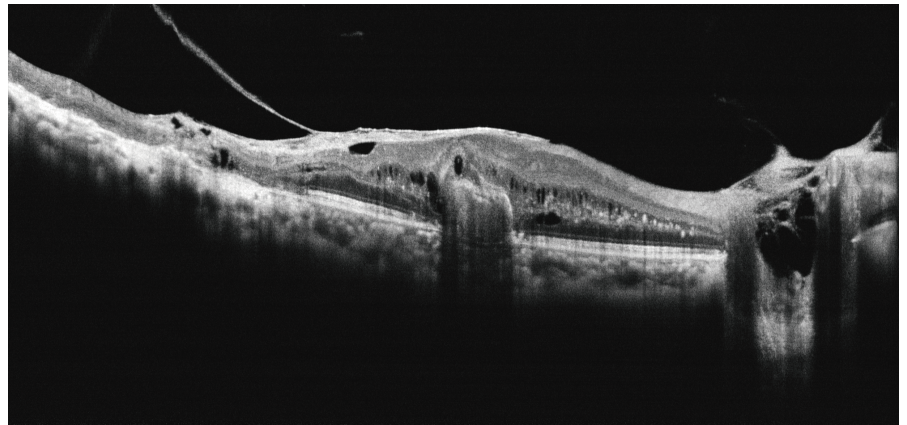
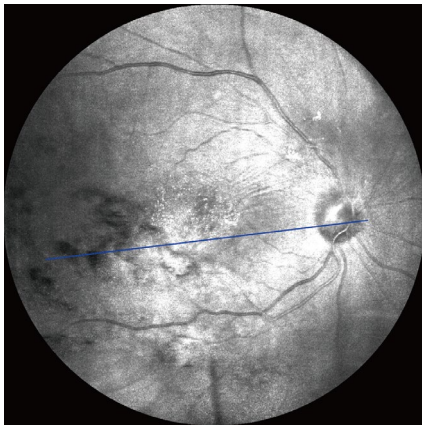


12mm retinal imaging

MACULA

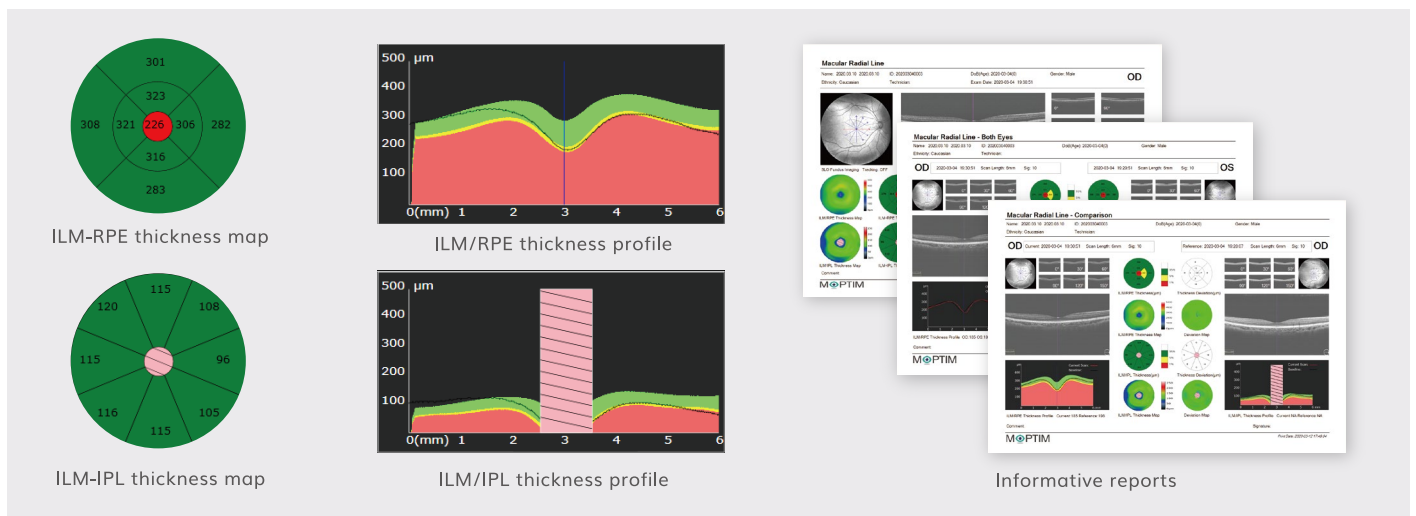
Macula HD Line

High definition OCT imaging reveals hidden pathological changes



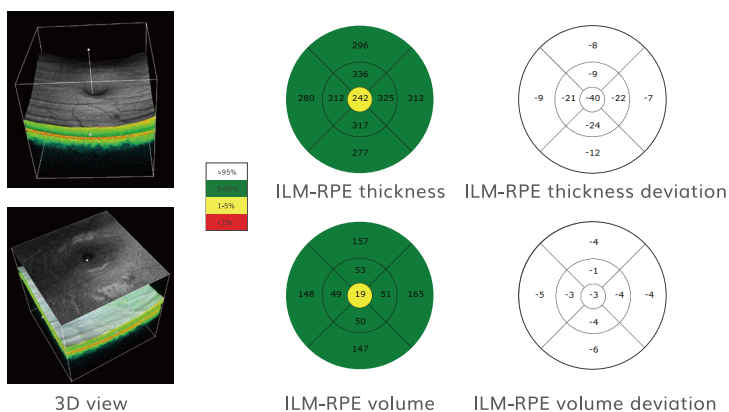
Macula Radial Lines

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



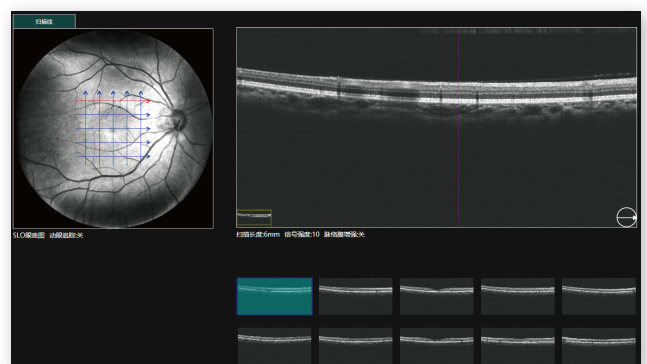
Macula Cube

Assessment of retinal thickness in 6x6 mm area



Macula Multi Lines

Multiple HD cross-sectional images acquisition



GLAUCOMA



Glaucoma (Macular)

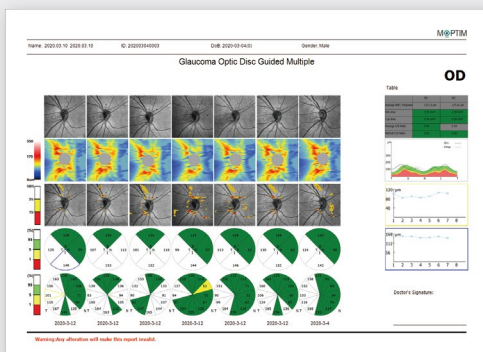
- ILM-IPL thickness analysis for early diagnosis of glaucoma
- Precise follow-up analysis powered by eye tracking

Glaucoma (Disc)

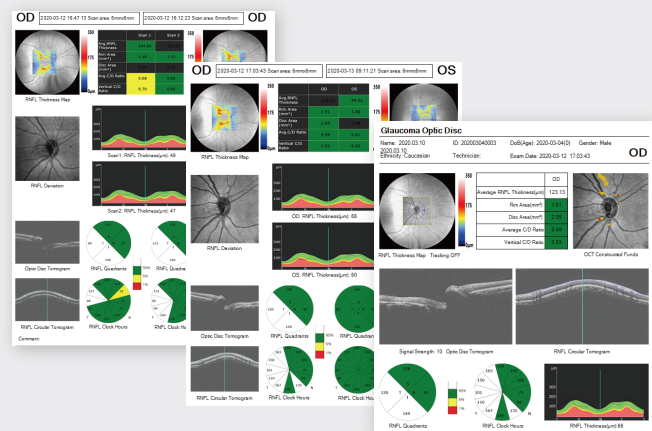
- RNFL analysis
- Cup-disc analysis



Informative Reports



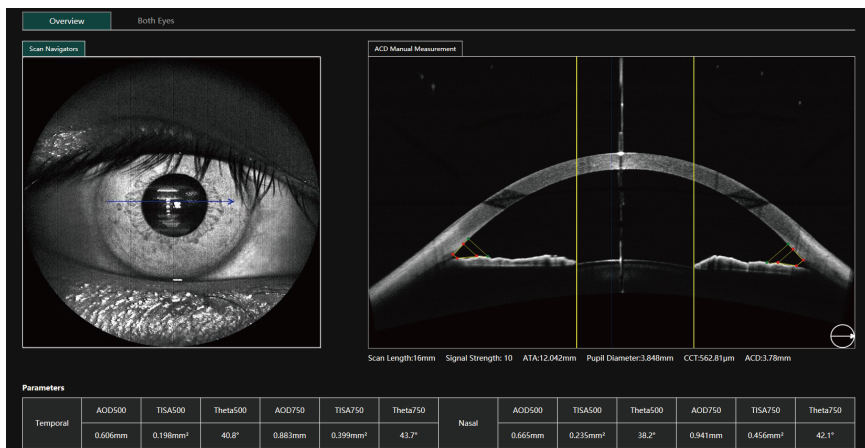
Progressive analysis



ANTERIOR SEGMENT

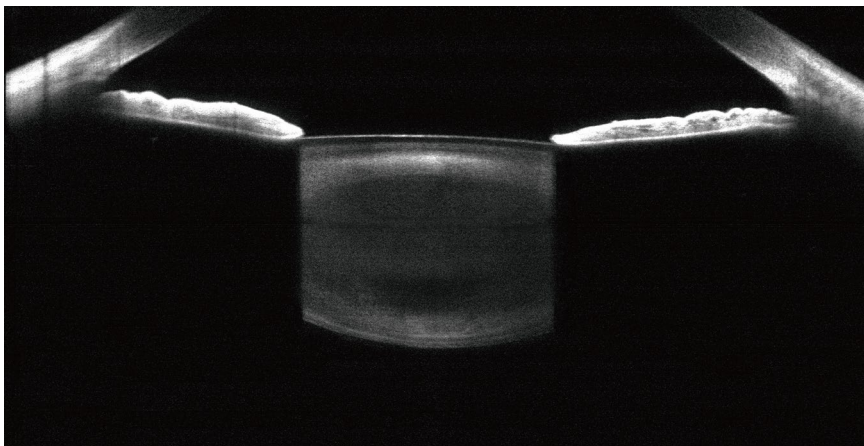
Anterior HD Line

Standard mode

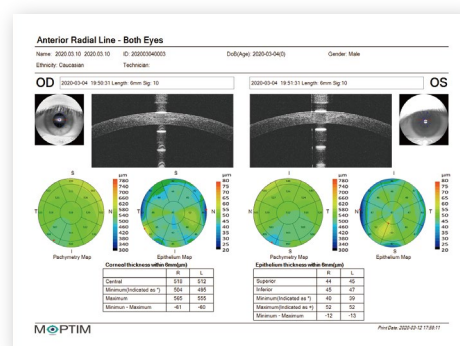
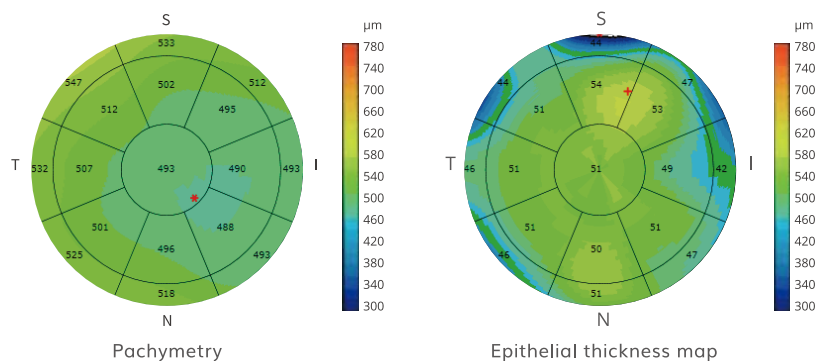


- Visualization of the entire anterior chamber (16 x 7.63 mm)
- In standard mode, the system images from the corneal front surface to the lens's front surface, while the software automatically calculates ACD, ATA, pupil diameter, CCT, AOD 500, TISA 500, AOD 750, and TISA 750
- In lens mode, the system captures images from the front to the back surface of the lens, automatically measuring lens thickness

Lens mode



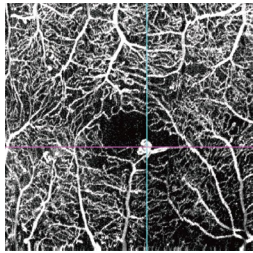
Anterior Radial Lines



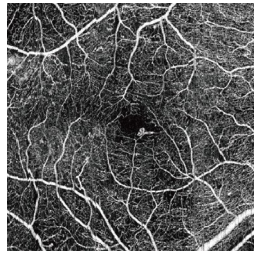
VASCAN[®] OCT ANGIOGRAPHY (OPTIONAL)

Scan Area

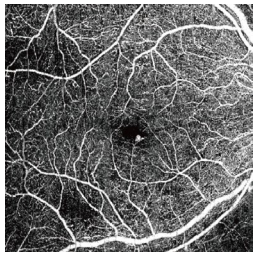
VASCAN provides a full view of the retina at 3x3, 6x6, 8x8mm or 12x8, disc at 4.5x4.5 or 6x6mm.



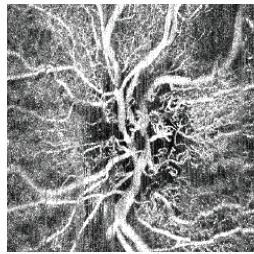
3 x 3 mm



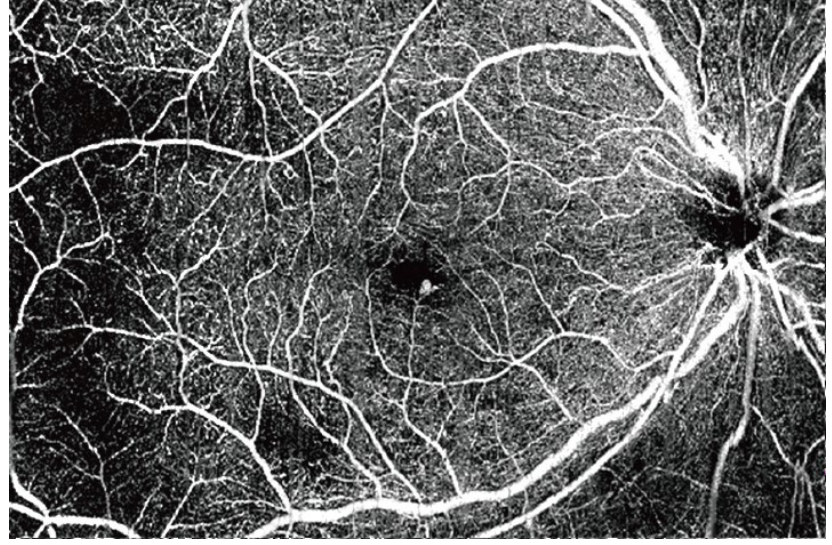
6 x 6 mm



8 x 8 mm



Disc 4.5 x 4.5 mm



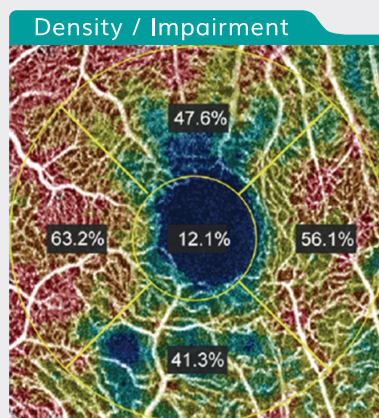
12 x 8 mm single scan

Advanced Analysis

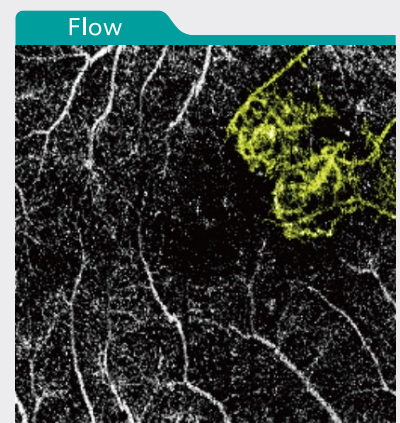
VASCAN offers comprehensive quantification features including vessel density, skeleton density, impairment and flow analysis.



Measurements include FAZ area, perimeter, circularity, and FD 300



Measurement of vessel density based on skeleton map and perfusion density based on binary map



Measurement of flow area

SPECIFICATIONS

OCT IMAGING

Methodology	Spectral domain OCT
Optical source	Superluminescent 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	3.1 - 7.36mm
Diopter range	- 20 to + 20 diopters
Scan patterns	Macular: HD line (6 / 12mm), 3D (6mm x 6mm), 6 radial lines, Multi lines (X-Y: 5 x 5); Disc: 3D (6mm x 6mm) Anterior: HD line scan (6 / 16mm), 6 radial lines

FUNDUS IMAGING

Methodology	Line scanning laser ophthalmoscopy (LSLO)
Minimum pupil diameter	3.1 mm
Field of view	45 ± 1 degrees

VASCAN™ OCTA MODULE (OPTIONAL)

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 8mm	540 x 360 A-scans
Algorithm	C-OMAG	
Segmentation options	Encoded, vitreoretinal interface (VRI), superficial, intermediate, deep, outer retina, choriocapillaris, choroid, custom	
Quantitative analysis	Yes	

ELECTRICAL AND PHYSICAL

Weight	30.5kg
Dimension	532mm (L) x 360mm (W) x 540mm (H)
Source voltage	AC 100 - 240V, 50Hz - 60Hz
Power input	90VA

* Specifications are subject to change due to product improvement.



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