

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:	3mm
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 Chorioid Imaging Modus
- Angle to Angle 16mm
- Macula Cross Beam (Operator can define the distance to 1 µm)

Glaucoma analysis:

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



TECHNICAL 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 Inlterface(VRI), Superficial retina, Deepficial retinal, Avascular, Choriocapillaris, Choriod, 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