

OCT - 3000

Optical Coherence Tomography



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► Product Introduction

Superior OCT image quality with up to 100 times averaging

Scan range up to 12mm

Scan depth 3mm

Deep Choroidal Imaging (DCI) mode available

HD SLO + retinal tracking

The key advantage Of the system is the simultaneous acquisition Of cross-sectional OCT imaging and 45 degrees fundus imaging based on Scanning Laser Ophthalmoscope (SLO). It gives you an overview of the retina so you can easily locate the lesion area before acquisition. Moreover, the system captures up to 50 SLO fundus images within one second in order to generate an HD fundus imaging with enhanced signal-to-noise ratio.

TO minimize the artifacts caused by eye drift and micro saccades, OCT 3000 uses SLO-based eye tracker. It performs 100 times tracking per second with 10 microns tracking accuracy and more than 95% success rate, which gives you more confidence in practice.

16mm angle-to-angle scan

Allows the angle area to be observed from a single image

Comprehensive analysis of retina, glaucoma and cornea

The system provides 8 scan patterns to help you improve diagnostic efficiency.

Retina (HD line, six-radial lines, multi, cube)

Glaucoma (macular cube, disc cube)

Cornea (HD line, six-radial lines)

The software analysis feature are always up-to-date and free for upgrade (excluding OCTA module)

►► 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	3mm
Diopter range	- 20 to + 20 diopters
Scan patterns	Macular: HD line scan (6 / 12 mm), 30 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

OCTA MODULE

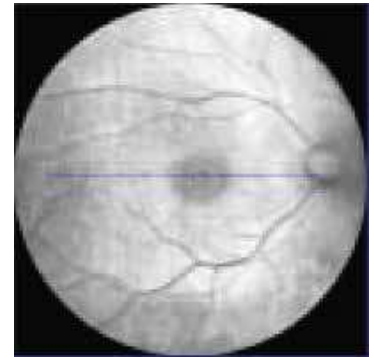
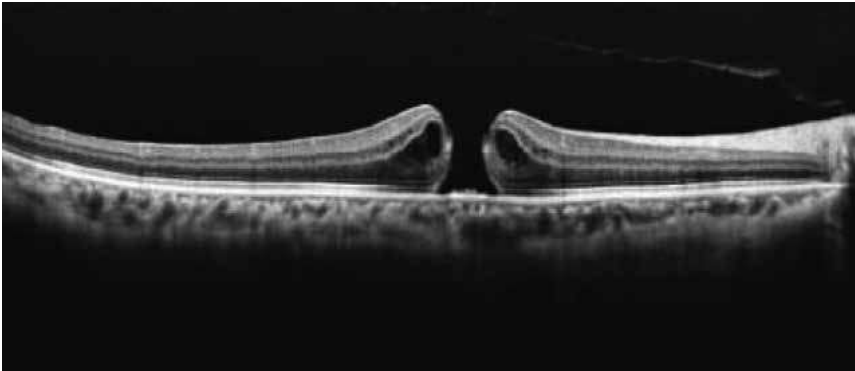
	Advance		Essential	
Scanning Volume/area	3mm x 3mm	256 x 256 A-scans	3mm x 3mm	256 x 256 A-scans
	6mm x 6mm	360 x 360 A-scans	12mm x 8mm	540 x 360 A-scan
	8mm x 8mm	360 x 360 A-scans		
	12mm x 8mm	540 x 360 A-scans		
Algorithm	C-OMAG		C-OMAG	
Segmentation Options	Encoded, Vitreousretina Interface(VRI), Superfacial retina, Deepfacial retinal, Avascular, Choriocapillaris, Chorioid, 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

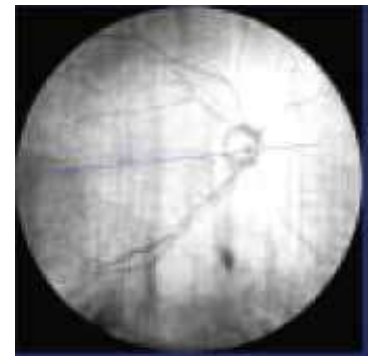
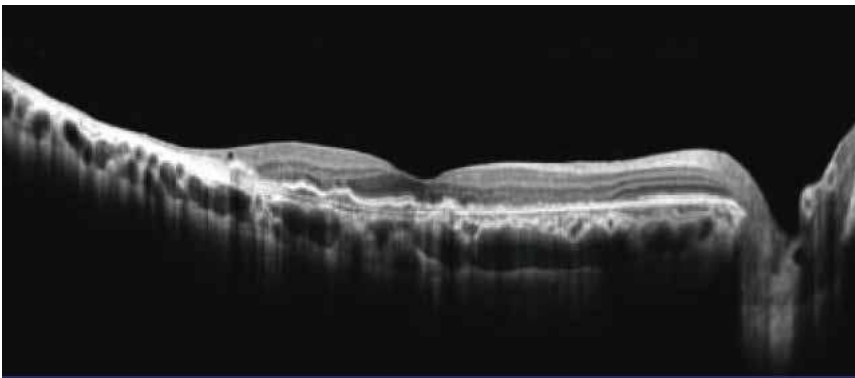
►► Clinical Image Collection

Macular Hole



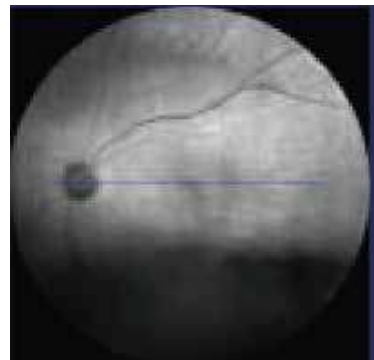
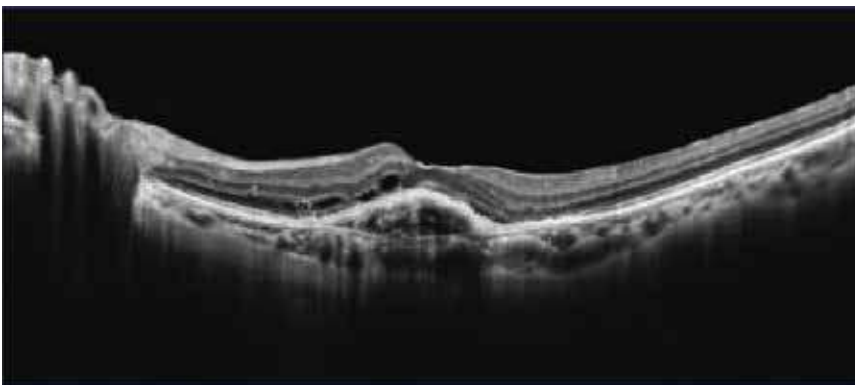
Complete posterior vitreous detachment and hyporeflective intra retinal cysts.

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.

►► HD SLO + EYE Tracking

- 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

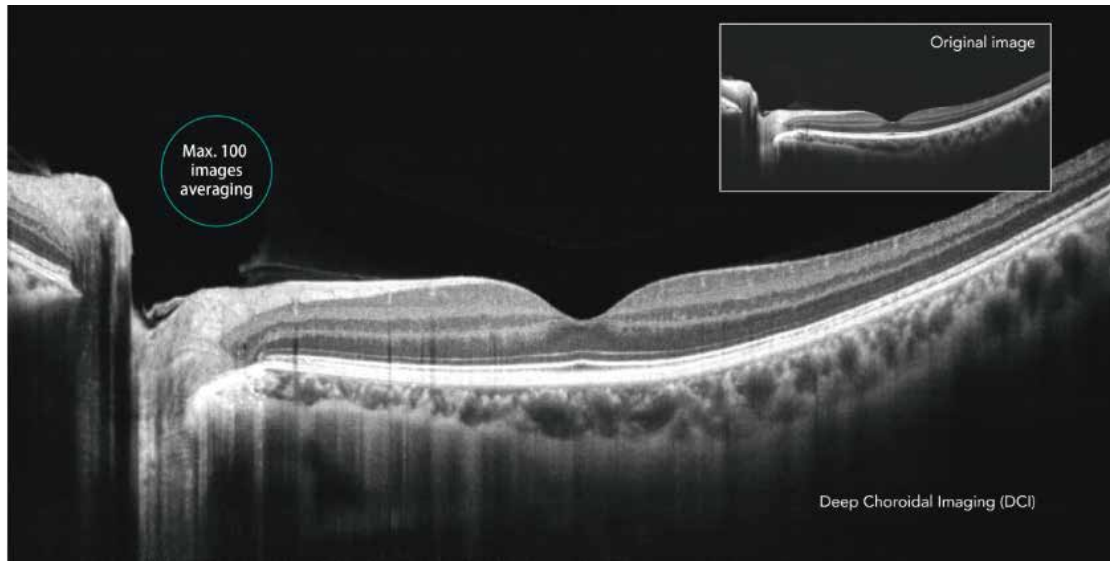


Real-time widefield SLO image

►► Requires optical OCTA license



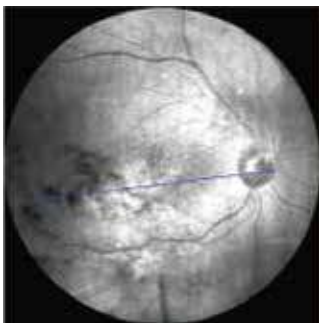
►► HD OCT imaging System At 80,000 A-Scans/S



►► MACULA

Macula HD line

High definition OCT imaging reveals hidden pathological changes



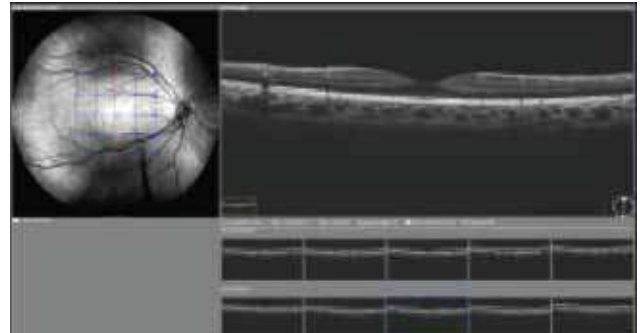
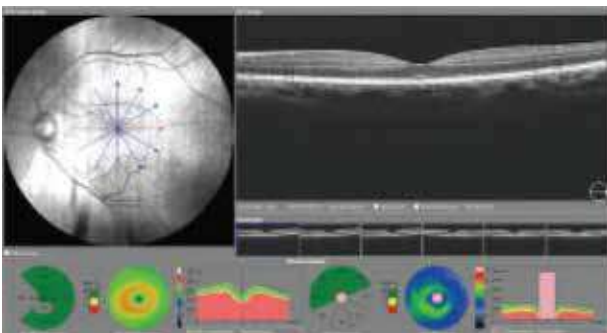
OCT scan range can be switched between 6 mm and 12 mm

Macula Six-line Radial

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

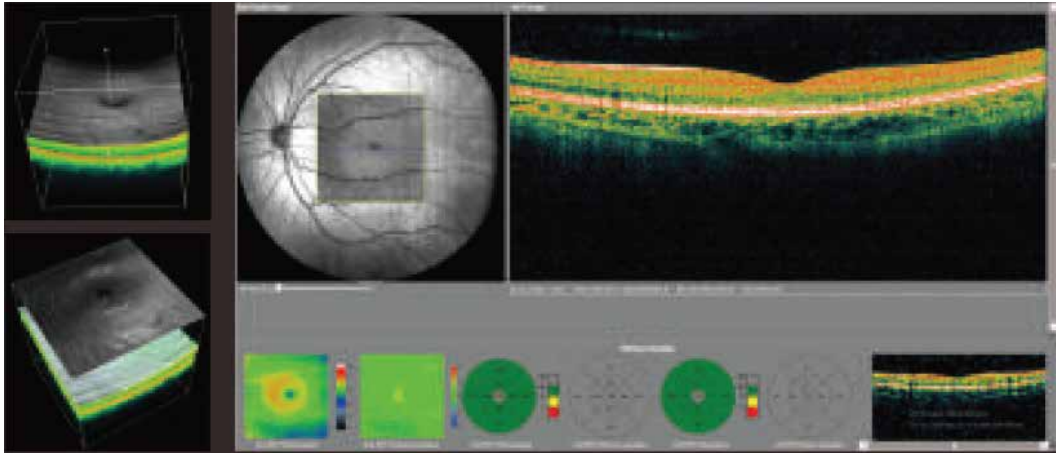
Macula Multi

Multiple HD cross-sectional images acquisition



Macula Cube

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



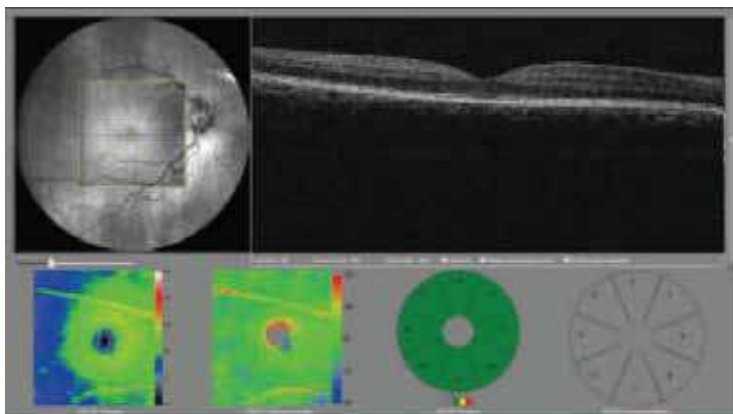
Software Analysis

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

►► GLAUCOMA

For comprehensive glaucoma analysis, OCT 300 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.

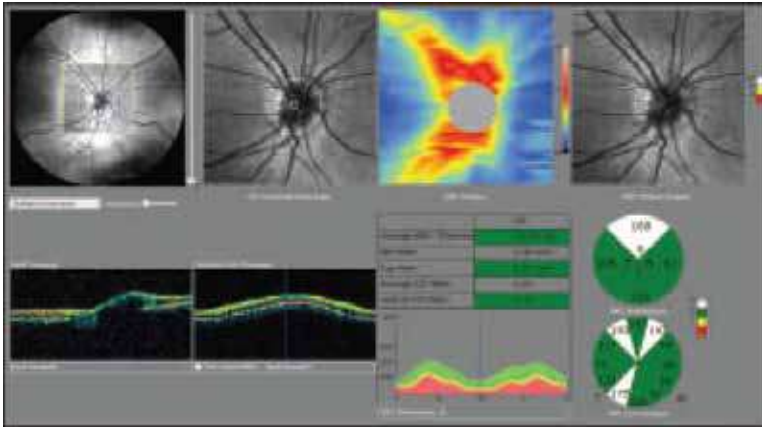
Glaucoma (Macular)



Software Analysis

- Ganglion cell analysis
- Progression analysis

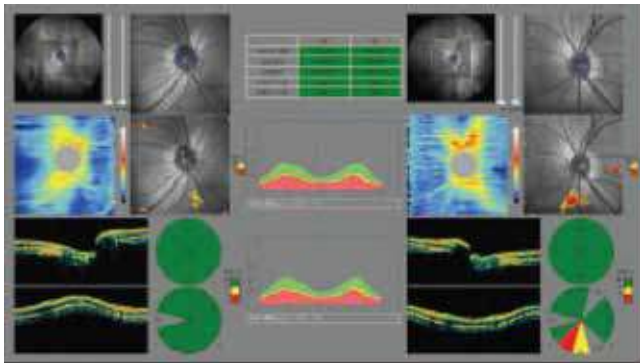
►► Glaucoma (Disc)



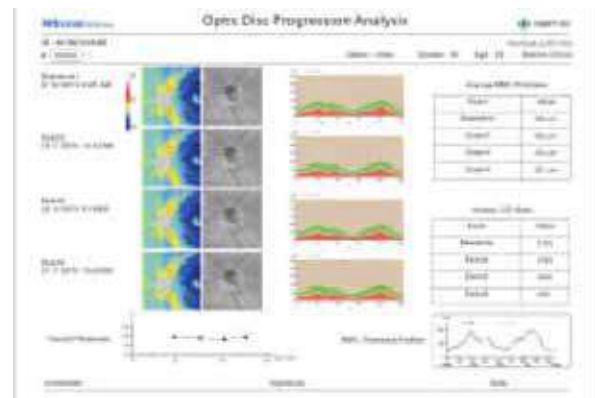
Software Analysis

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

►► Informative Report



OU comparative analysis

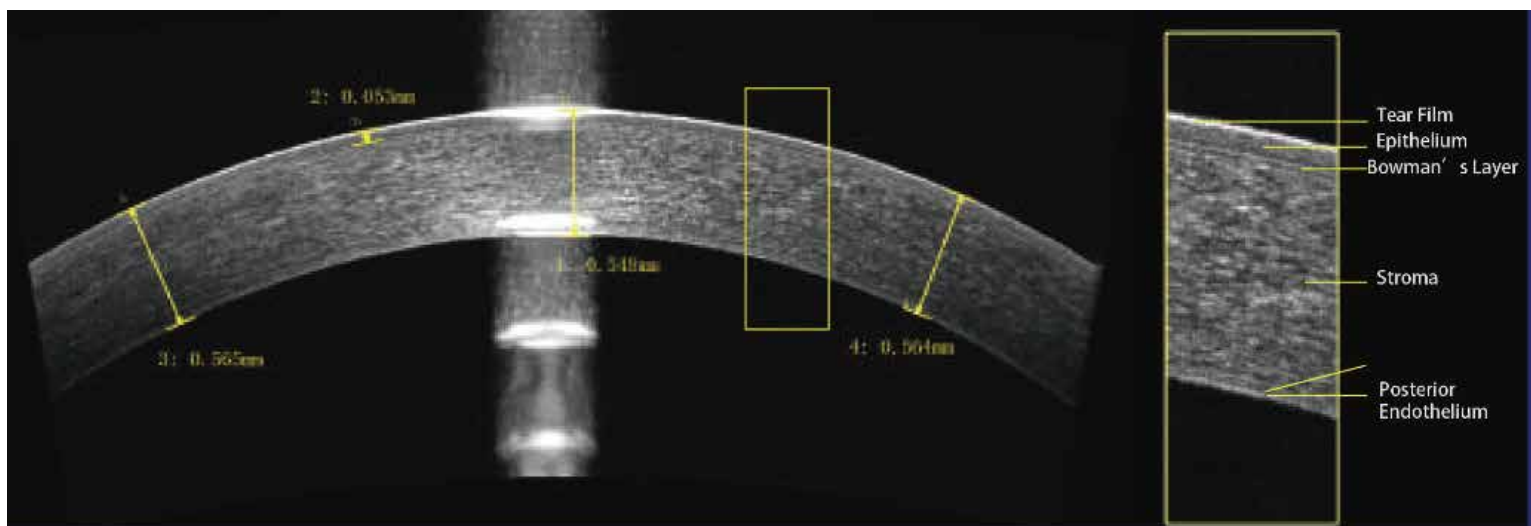


Progression analysis report

►► ANTERIOR SEGMENT

Anterior HD line

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

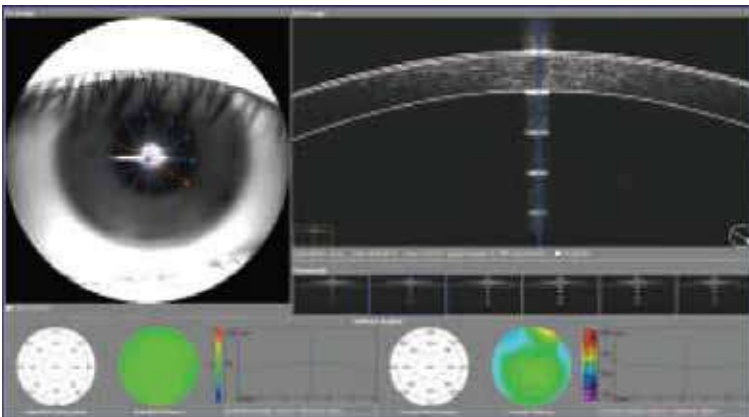


16 mm Angle-to-angle scan



►► 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

►► Oct Angiography

Valuable OCTA for routine clinical practice

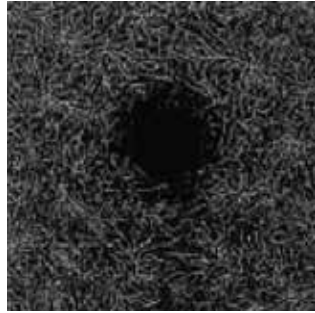
Optical Coherence Tomography Angiography (OCTA) is a new non-invasive imaging technique that allows the detailed study of flow within the vascular structure of the eye without the need of dye injections.

En face flow images of segmented layers

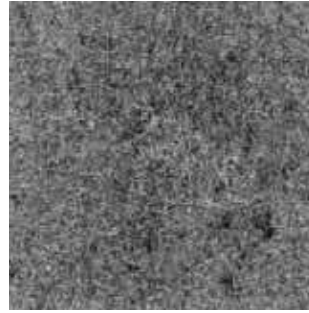
Superficial



Deep



Choriocapillaris



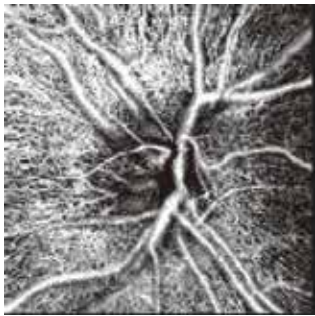
Choroid



OCT Angiography of the optic Disc

Wide-field OCTA scan

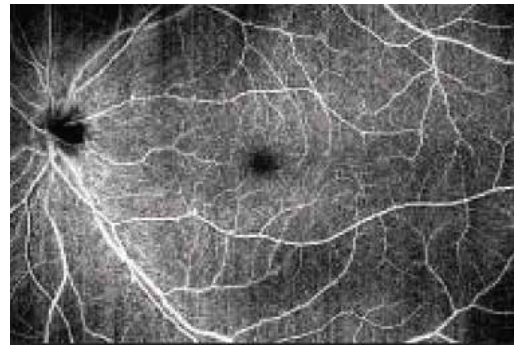
Healthy eye



Glaucoma eye

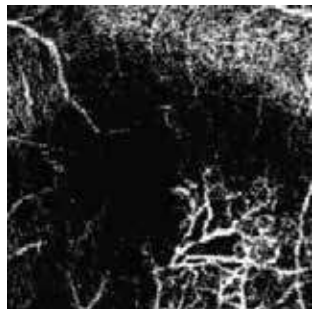


12mm x 8mm OCTA imaging of healthy eye

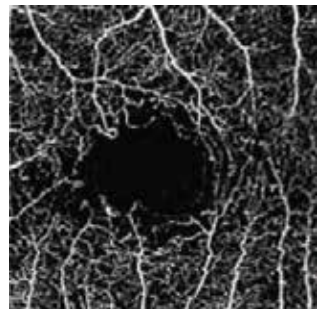


Clinical Cases

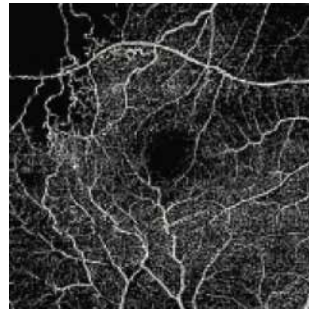
Choriocapillaris (cnv), 3 x 3



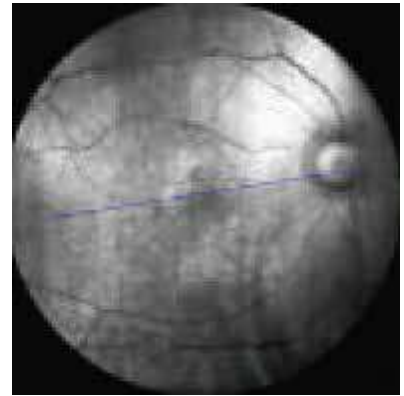
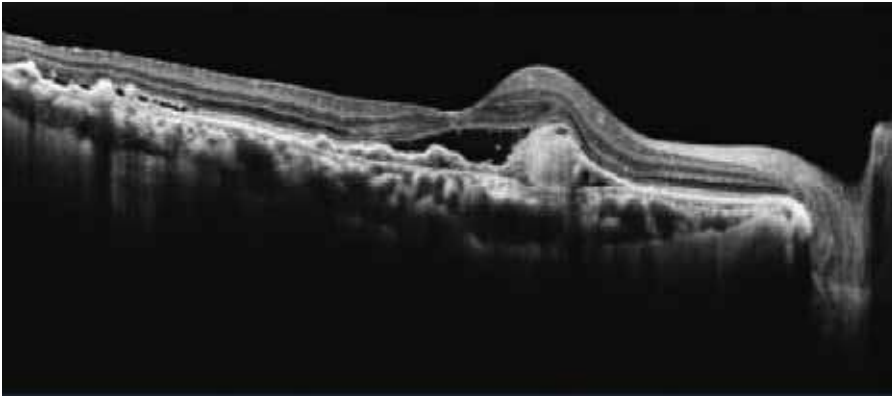
Superficial (DR), 3 x 3



Superficial (BRVO), 6 x 6

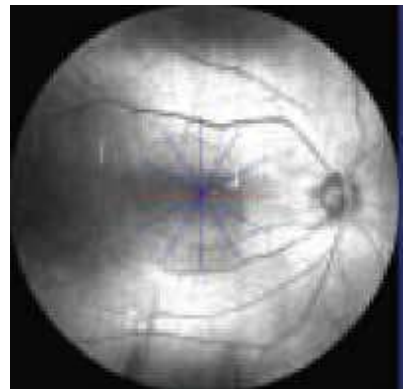
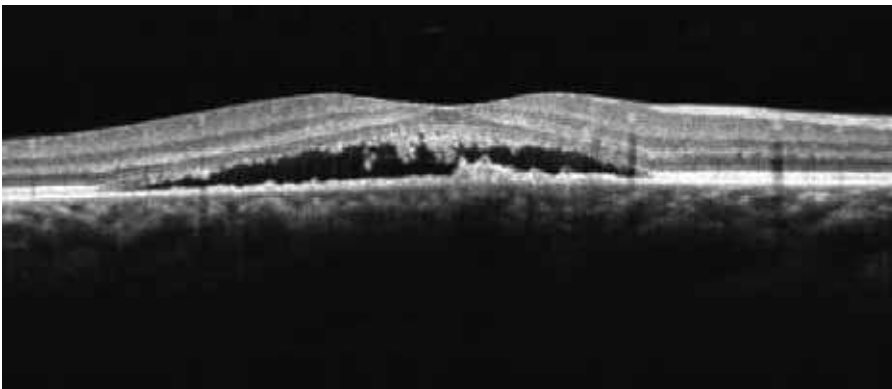


Polypoidal choroidal vasculopathy (PVC)



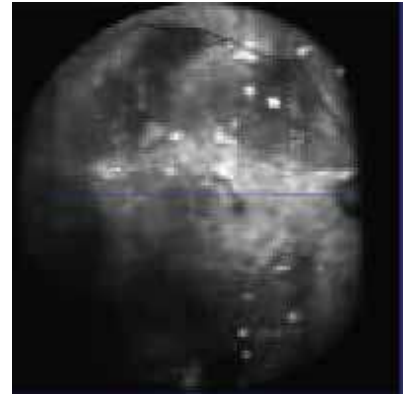
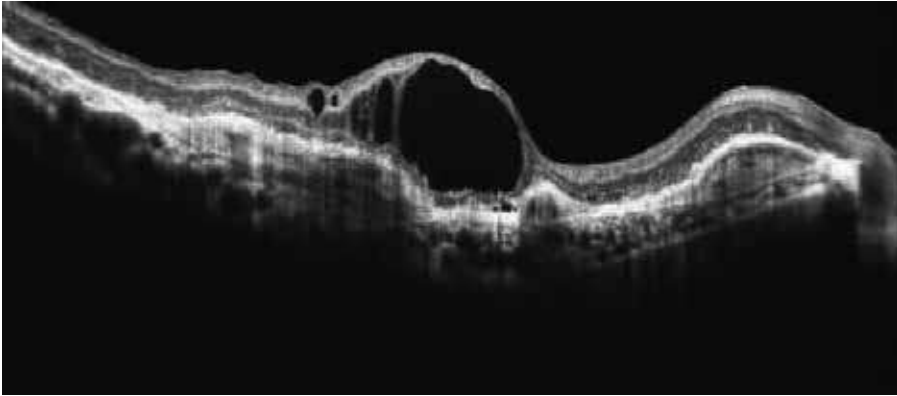
OCT shows dome-shaped PED with a polypoidal lesion inside, which appears as round mild-to-moderate reflective lumen and moderate-to-high reflective wall. Double layer sign is present in the area of macular and temporally. There is sub-retinal fluid with several punctate hyperreflectivity.

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.

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Our Products & Technologies



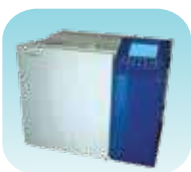
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Total Organic
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Analyzer



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Ion Chromatograph



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