

**Going beyond the
surface of your retina**



come

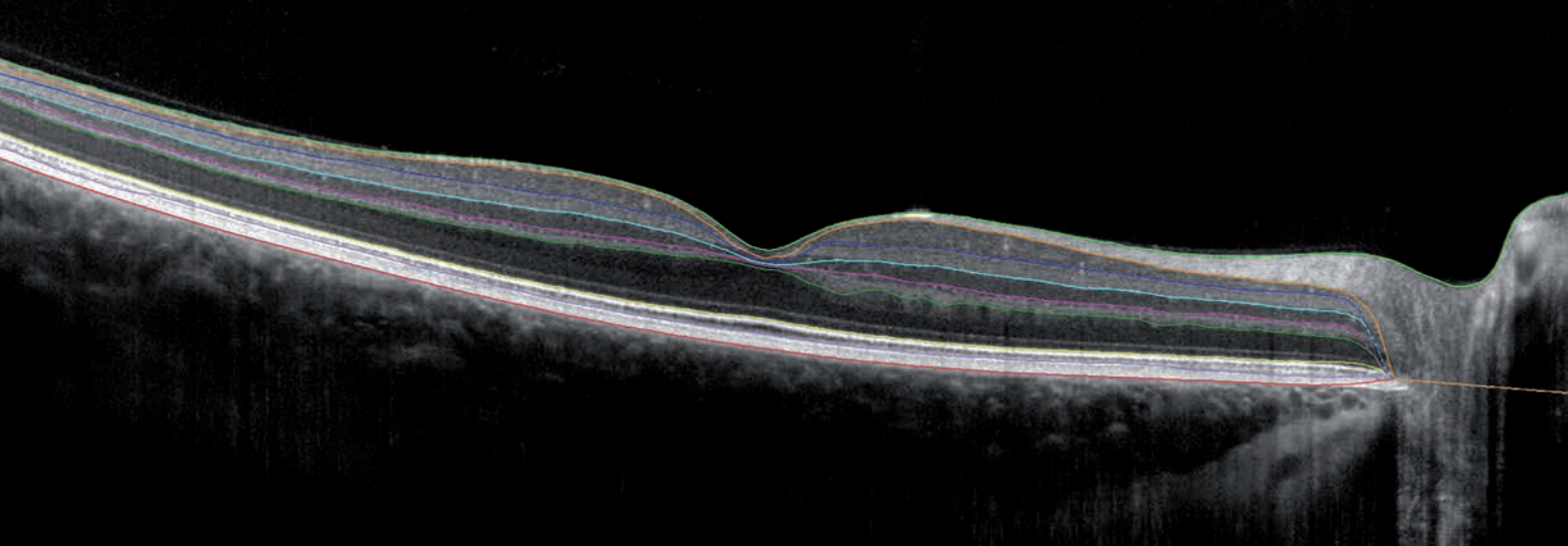
and

see



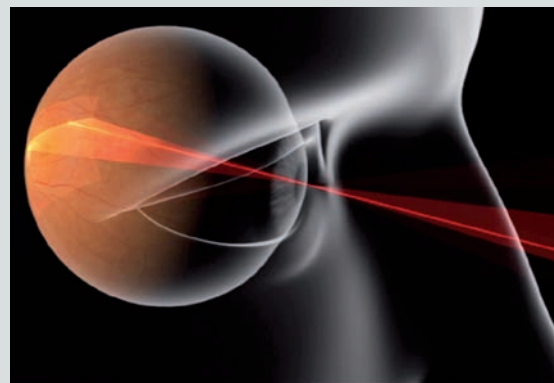
OCT-HS100
Optical Coherence Tomography

Canon

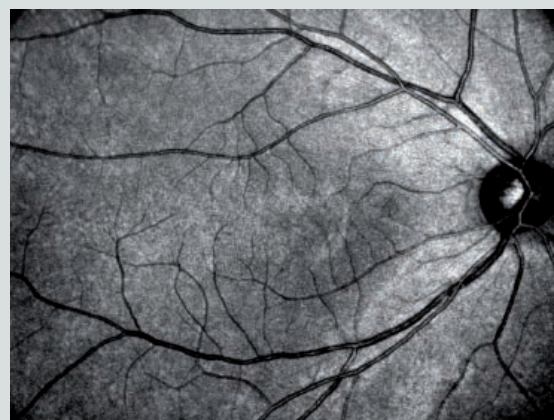


10 layer segmentation

Canon's expertise in optics and innovative technology have resulted in a fantastic 3 μm optical axial resolution for amazing scan quality and 10 layer segmentation.



The high scan speed of 70000 scans/s results in very short examination times; typically less than 2 seconds: very patient friendly and improving efficiency. Less chance on motion artefacts.

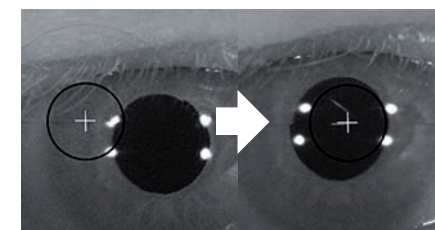


The built-in SLO (scanning laser ophthalmoscope) allows for superior retinal observation and precise follow up examinations.

Angle of view
H 44° x V 33°



• Perform the examination with just two simple mouse clicks!



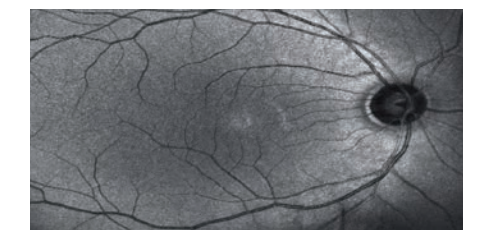
Auto Anterior Eye Alignment

Just click on the center of the pupil and click on start – the OCT-HS100 will automatically align on the center



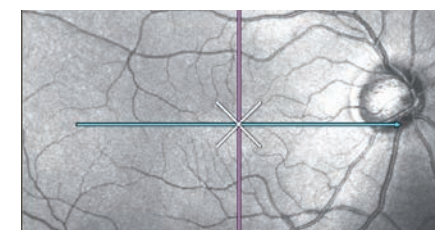
Auto Tracking

The center of the pupil is detected and then maintained as center of the image, even during involuntary movements of the eye.



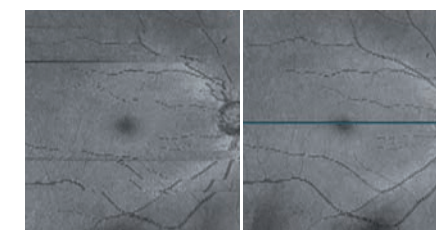
Auto Focus

Focus for live SLO image is automatically adjusted.



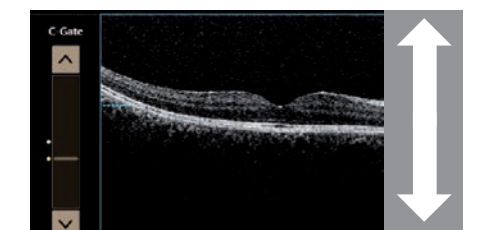
Auto Fundus Tracking by SLO

By detecting the amount of movement in the fundus images on a frame-by-frame basis - small involuntary movements of the eye will automatically be compensated.



Auto Re-Scan

When the eye moves too much during capture, re-scan is done automatically from the shifted position and the final image is corrected.



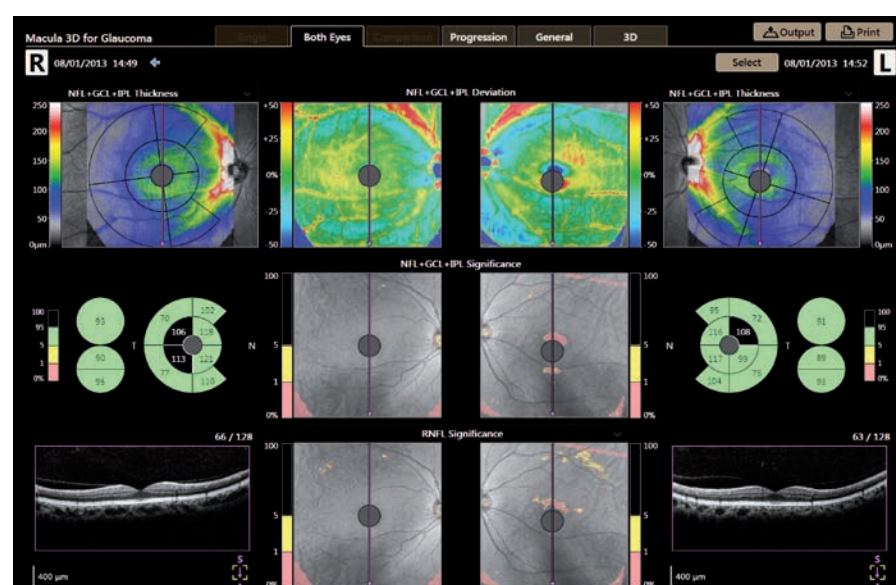
Auto C-gate Control

Allows to automatically obtain the highest tomogram saturation.



Macula Thickness Analysis

This shows the tomogram image of the macula and analysis results of retinal thickness. The primary scanning direction is horizontal, and priority is given to resolution in the horizontal direction.



NFL+GCL+IPL / GCL+IPL Analysis

This shows the tomogram image from the macula up to the optic disc, and analysis results of retinal thickness. The primary scanning direction is vertical, and priority is given to resolution in the vertical direction.

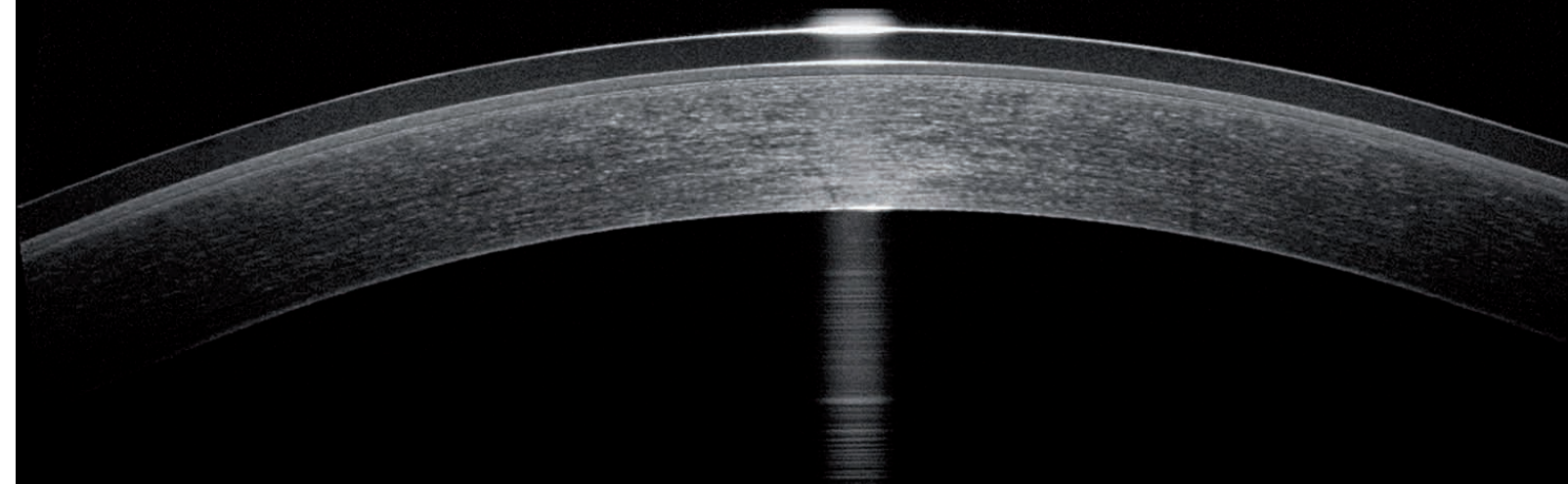


Optic Disc Analysis

This shows the thickness of RNFL (Retinal Nerve Fiber Layer) and analysis results of the shape of the optic disc.

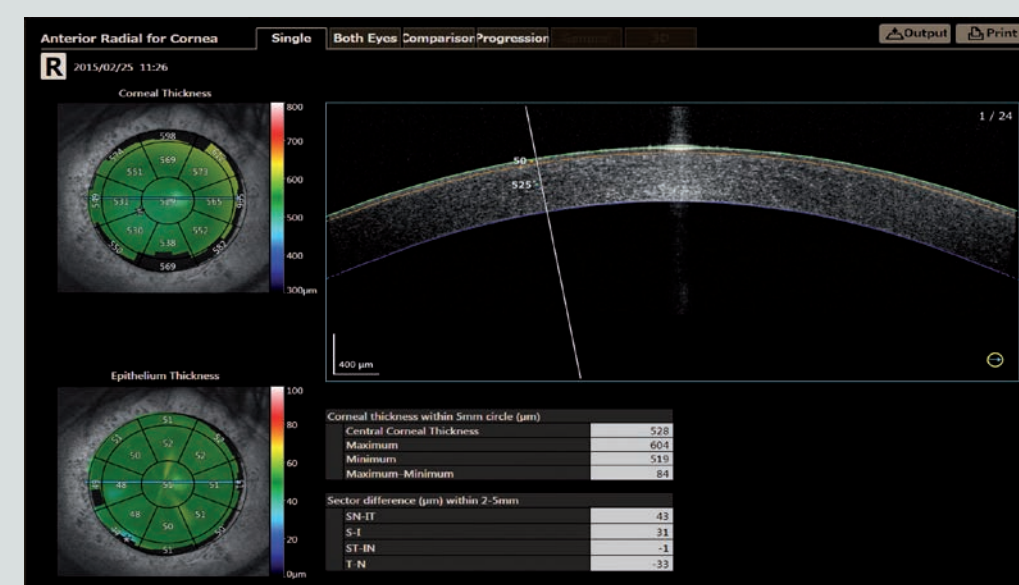
Normative Database

Comparison references available for full retinal thickness, NFL+GCL+IPL / GCL+IPL thickness and significance; RNFL thickness and significance.

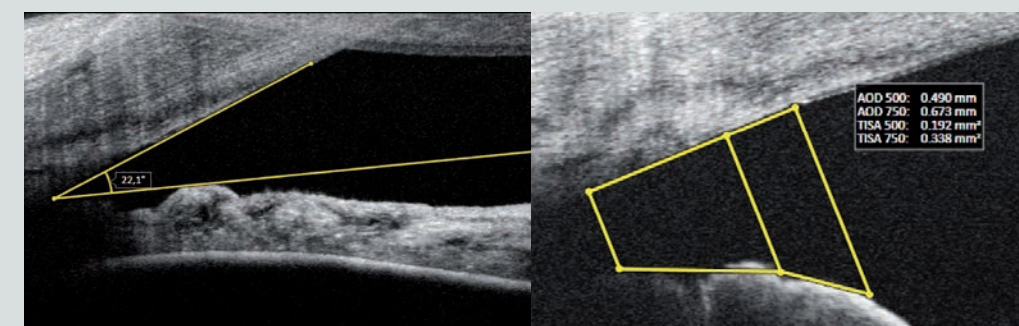


Healthy cornea with contact lens

Anterior Segment Analysis (with optional Anterior Segment Adaptor ASA-1)

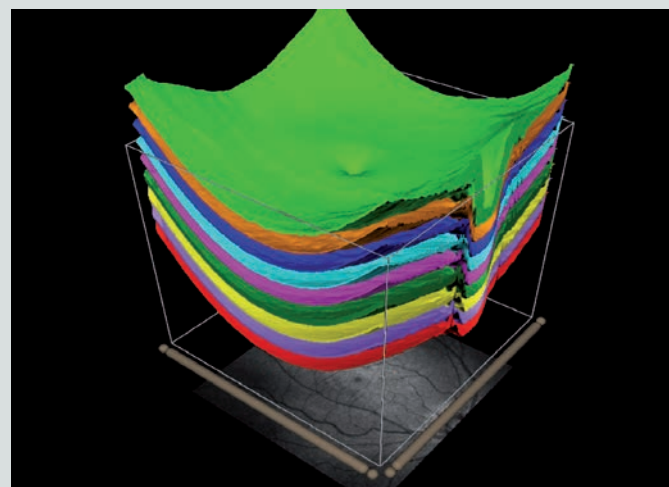


The corneal thickness analysis is shown as maps of corneal thickness, corneal grids, and tables



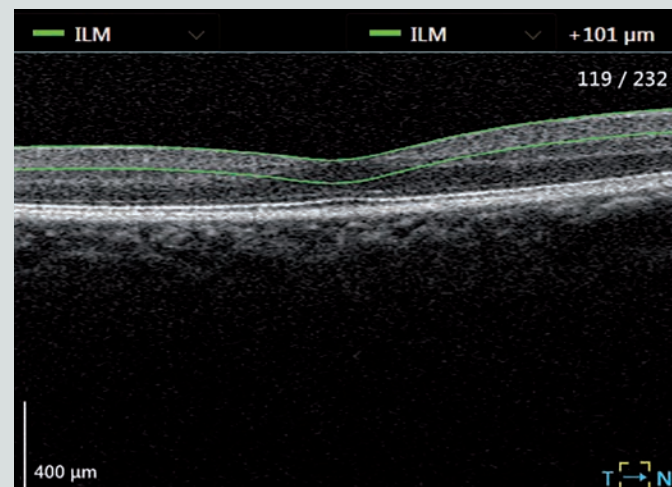
The distance between two points, angles, and AOD (Angle Opening Distance) / TISA (Trabecular Iris Space Area) can be measured.

Ophthalmic Software Platform RX Capture for OCT-HS100



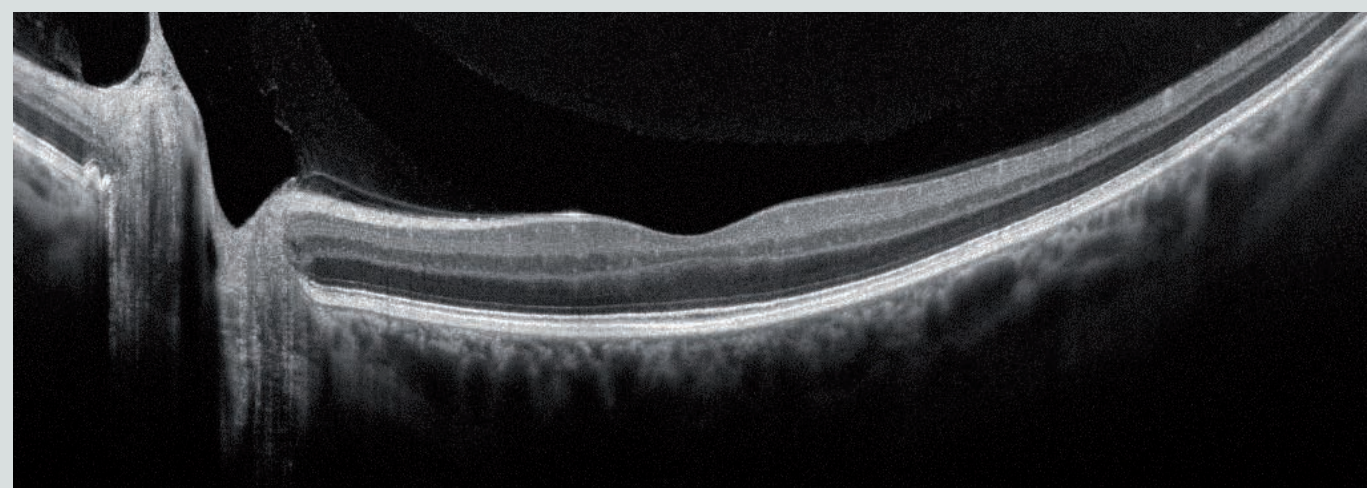
3D Analysis

The data of the OCT images can be shown as a 3D image. Three types of view formats are available for tomogram images: Volume, Solid and Cross-Section.



En Face

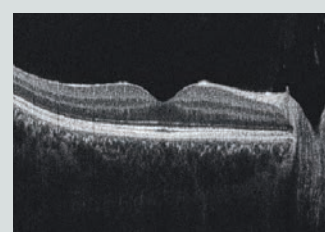
Visualization of retinal layers following the contours .



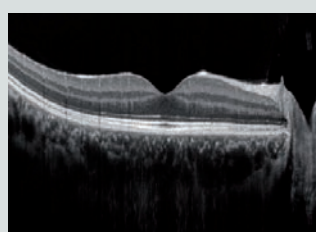
Scan Width maximum 13mm

Averaging

Up to 50 scans can be combined for best possible image quality, this results in an unsurpassed digital resolution (after averaging).



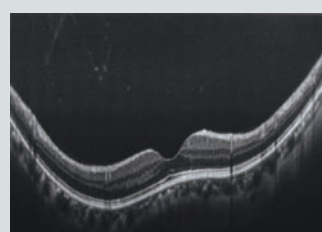
No averaging



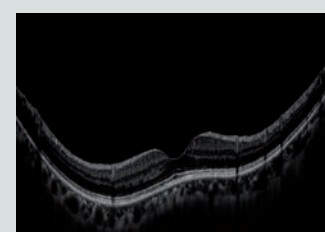
50 times averaging

Enhanced Depth Imaging

Vitreous Mode
vitreous side of the
image is more clear.



Choroid Mode
Choroid side of the
image is more clear.



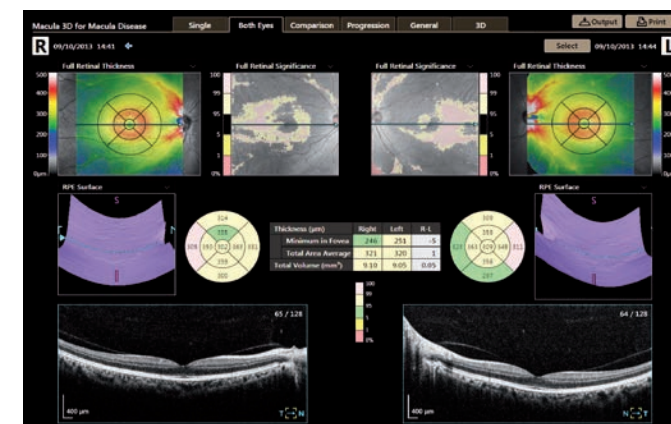
Ophthalmic Software Platform RX Capture for OCT-HS100

Versatile reporting possibilities



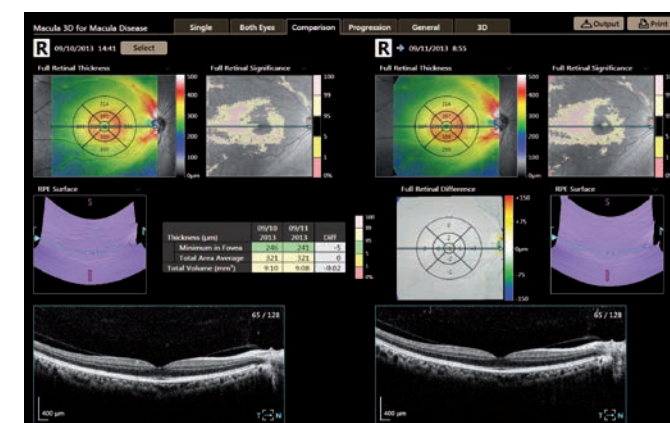
Single

Analysis results of one eye.



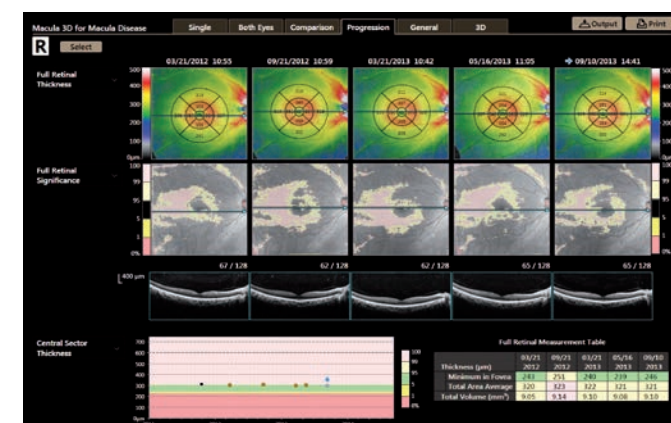
Both

Analysis results comparing examinations of both eyes in the same scan mode, same size of scanning area, on the same date.



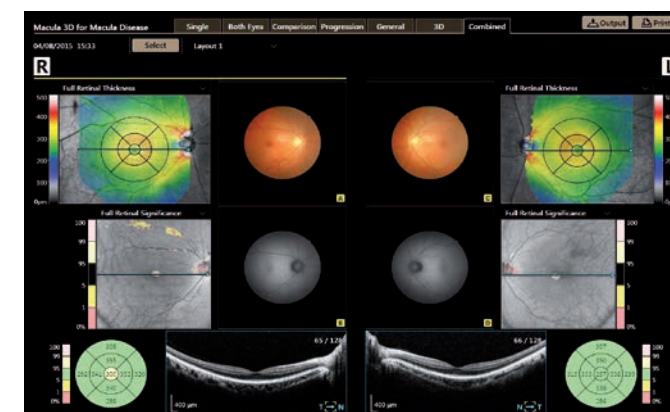
Comparison

Analysis results comparing two examinations of eyes on the same side in the same scan mode, same size of scanning area, from different dates.



Progression

Analysis results comparing five examinations arranged in time sequence of eyes on the same side in the same scan mode, and same size of scanning area. *Progression not available for OCT-A



Combined Report

This screen shows the analysis results comparing examinations of both eyes , accompanied with retinal images taken with a Canon retinal camera (optional) sharing the same database. With RX Capture for RC (optional)

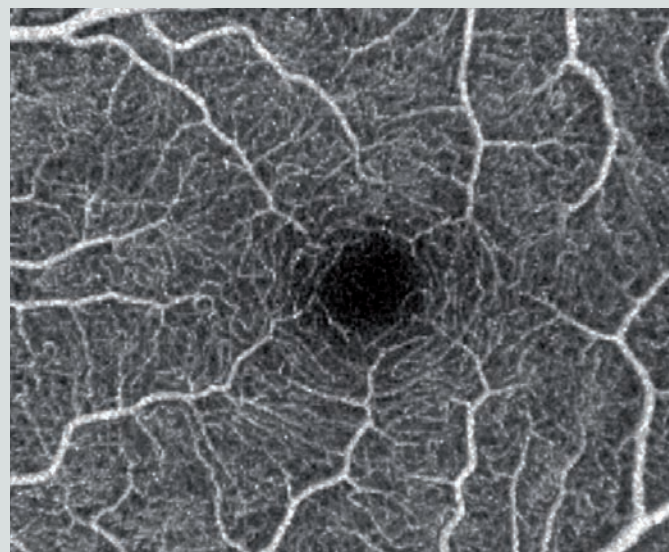
AX (Angio eXpert) Optional software module

Ophthalmic Software Platform RX Capture for OCT-HS100

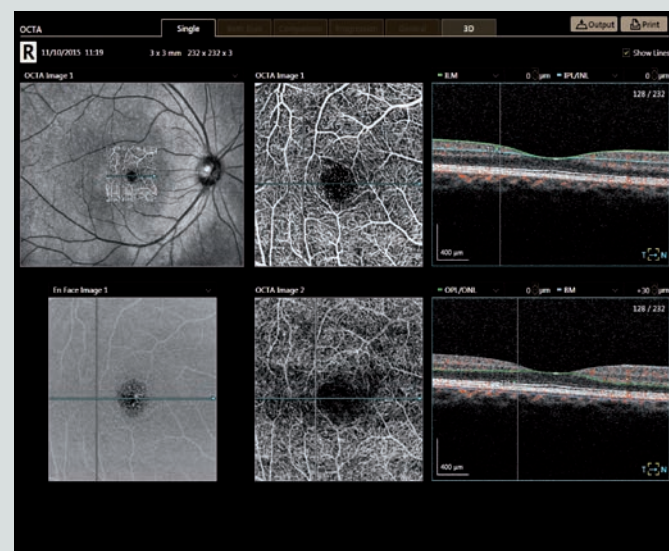
OCT Angiography is image processing to depict blood vessels from OCT images. Blood vessels can be observed without using fluorescein dye.

Extremely short scan times : appr. 3 seconds.

Extensive scan windows : from 3 X 3 to 8 x 8 mm

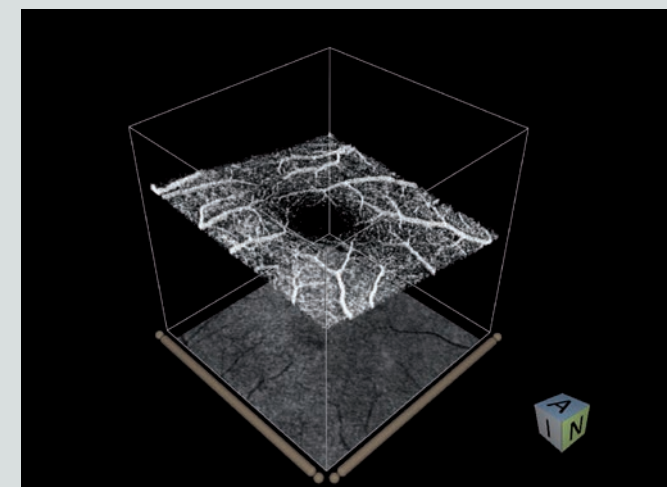


Detailed visualization of the retinal blood vessels due to unsurpassed 3 μm optical resolution.



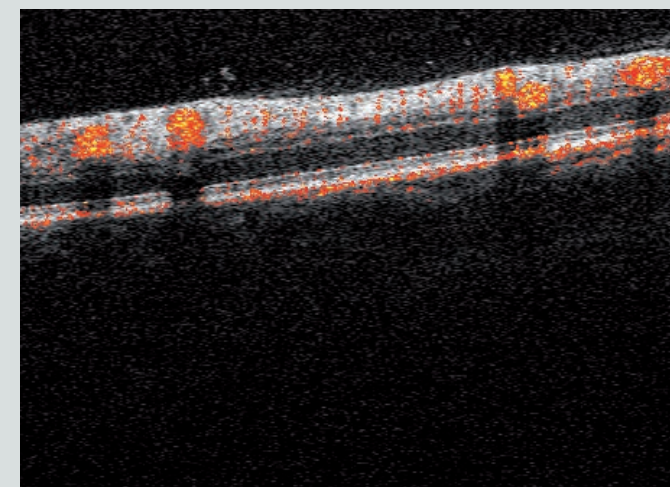
OCT Angiography

The superficial and deeper blood vessels can be observed in a designated layer.



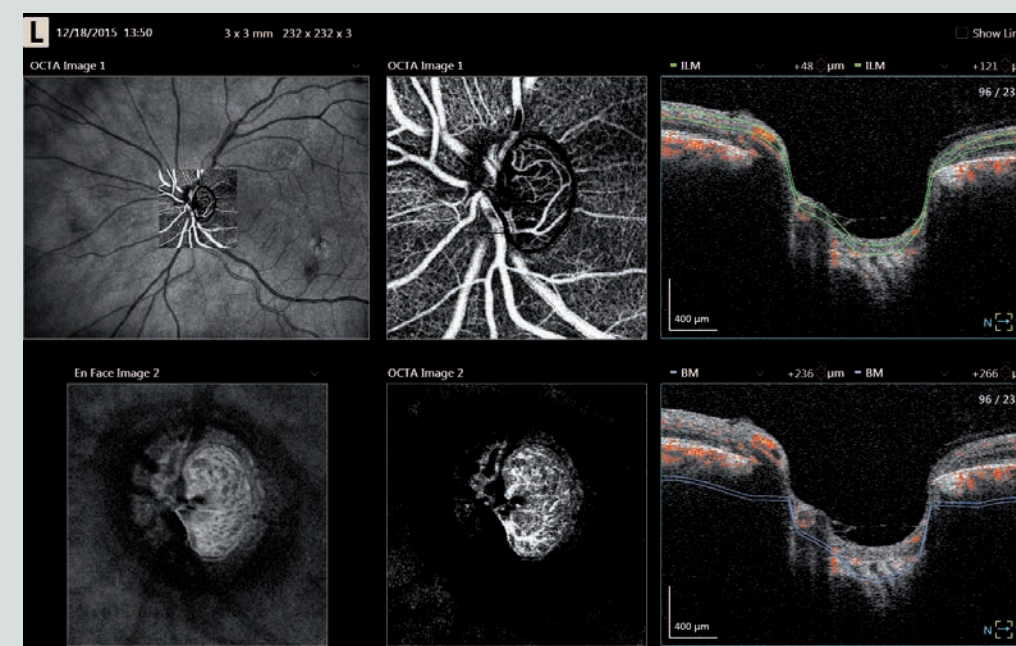
3D Angiography View

Shows the SLO image and a non-transparent image for each layer of the retina.

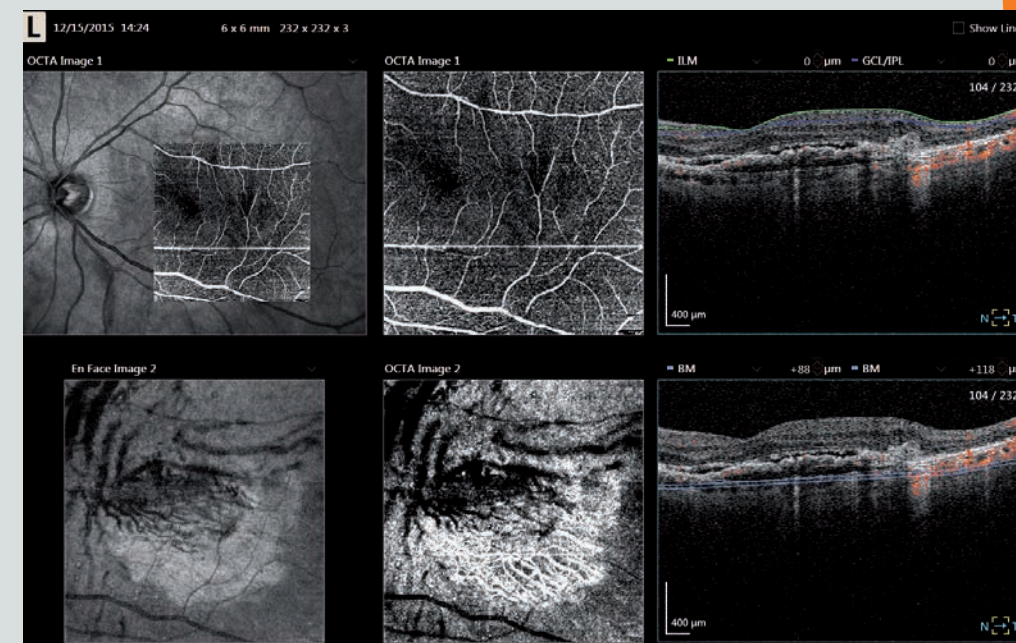


Angiography Overlay

Shows the position of the blood vessels on the tomogram



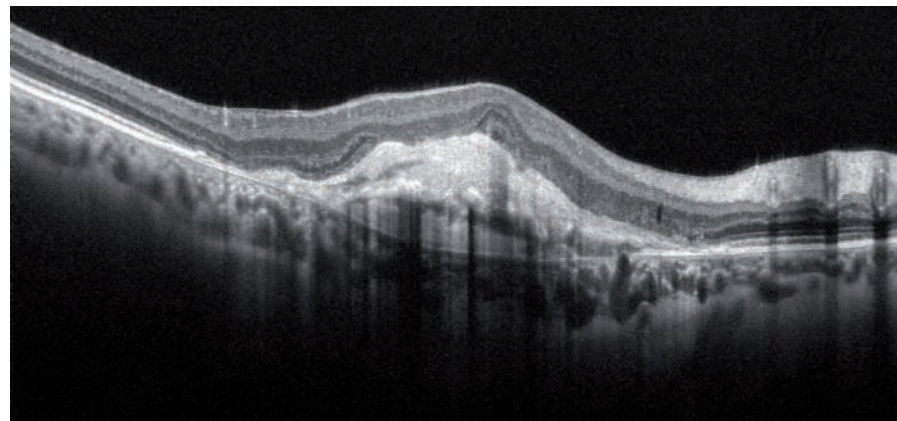
Glaucoma



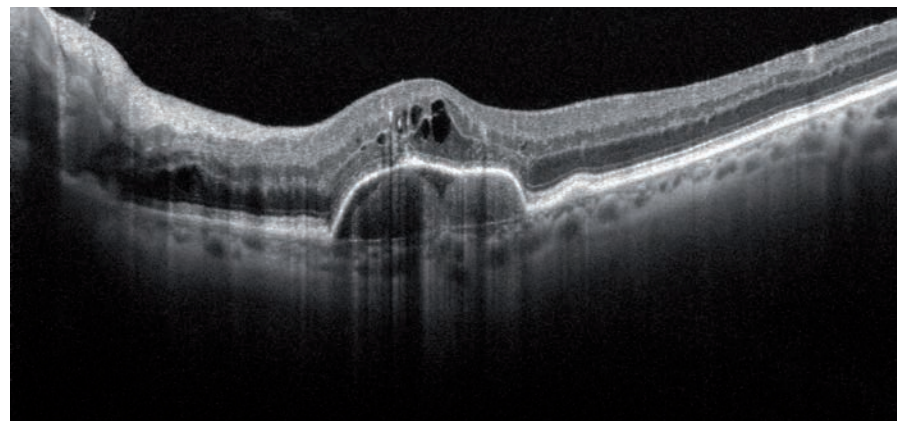
Images courtesy
UMCG,
The Netherlands

Occult Neovascularization

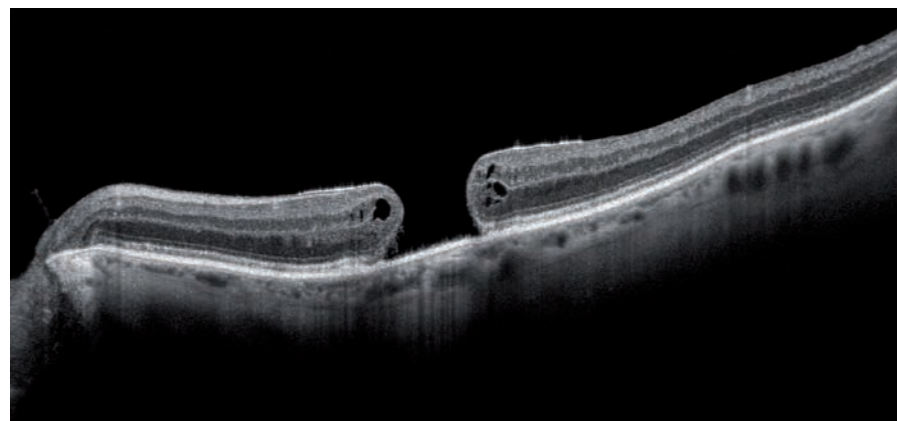
Clinical images



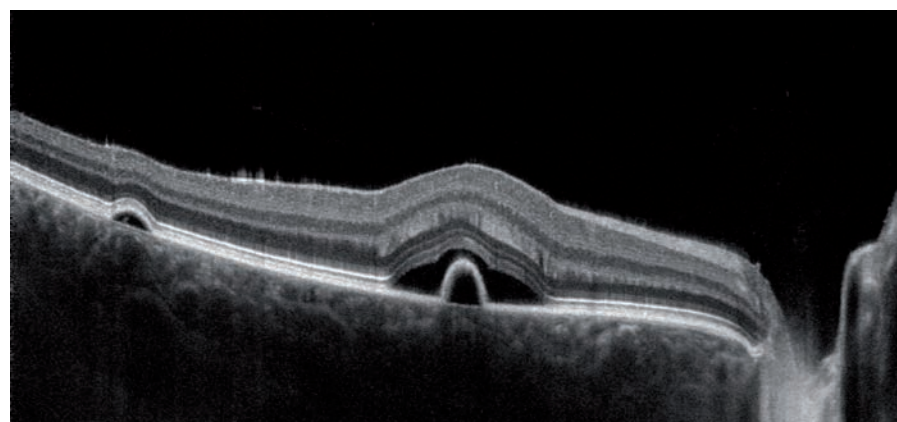
End stage choroidal neovascularization



Branch retinal vein occlusion



Full thickness macular hole



Central serous chorioretinopathy

Images courtesy
Skanderborg Eye Clinic,
Denmark

Ophthalmic Software Platform Retinal eXpert RX

The new multi modality platform for Canon retinal cameras and OCTs

The platform has viewer and server solutions and has excellent data security. Designed for seamless integration with Electronic Medical Record Systems and third party software; utilizing a Command line interface, third party software can start the Canon RX software to display the study data of that patient. Program launch preset keys can start third part software directly from the Canon RX software.



Stand alone



Capturing

Reviewing and reporting
Database and archive



OCT with camera

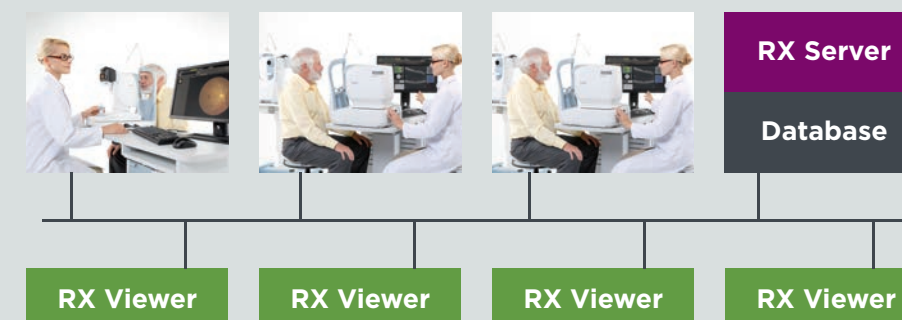
A Canon retinal Camera could be added to the system , sharing the same database

With viewing stations



RX viewer software (optional) can access the database of the device over the network
2 RX viewers can connect at the same time

Multiple modalities

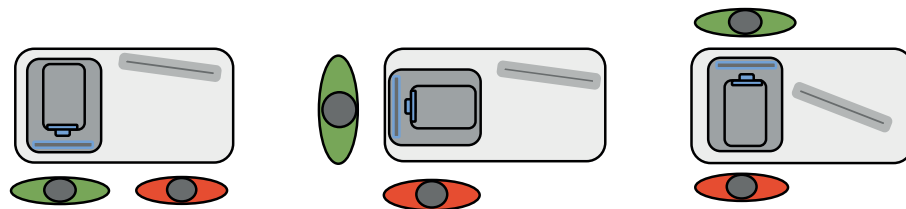


RX software is fully
DICOM compatible

RX server and RX viewers have to be purchased separately

The OCT-HS100 takes up very little floor space and is flexible for use in most situations- even against a wall or in a corner

Dimensions of our dedicated OCT table 110 (W) x 60 (D) cm



Scan modes	A-scan	B-scan	Scanning area (mm)
Macula 3D	1024 (H)	128	10 x 10
Glaucoma 3D	1024 (V)	128	10 x 10
Disc 3D	512 (H)	256	6 x 6
Custom 3D	1024 (H/V)	128	3 ~ 10
Multi Cross	1024 (H) / 1024 (V)	5/5	3 ~ 13 (H) / 3 ~ 10 (V)
Cross	1024 (H) / 1024 (V)	1/1	3 ~13 (H) / 3 ~10 (V)
Radial	1024	12	3 ~ 10
Anterior 3D	512 (H)	256	6 x 6
Anterior Cross	1024 (H) / 1024 (V)	1/1	3 ~ 6
Anterior radial	1024	12	6
OCTA	232 (H)	232	3 x3 ~ 8 x 8

Specifications

A-scans/sec	Max 70,000	Fundus Preview	Confocal scanning Laser
Axial resolution	3 μ m	Observation light source	780 \pm 5nm
Transversal Resolution	20 μ m	Internal Eye Fixation	2 mm or 6mm , 590nm (orange)
Pupil size requirement	Min 3.0 mm	Field of view	10 x 10 mm, OCT 33 °x 33 °, SLO 44°x33 °
Scanning width	2 ~ 13 mm	Dimensions WxDxH)	387 x 499 x 474 (mm)
Scan depth	2 mm	Weight	29 (kg)
OCT light source	855 nm \pm 5 nm	Optional Accessory	Anterior segment adapter (ASA-1)
Working Distance	35 mm		