



Automatic functions make examinations short and simple. Perform the examination with only two simple mouse clicks!

1. START





- Auto alignment
- Auto focus
- Auto C-gate

2. CAPTURE



The Canon OCT-HS100 is the first Fully Automated Spectral Domain OCT. Operating an OCT has never been easier.

The OCT-HS100's extensive automatic functions simplify and optimize examinations. A single mouse click correctly aligns and focuses on the retina to maximize scan quality. The operator then decides with a second click when the scan itself will be initiated, allowing full control over the instrument. The high scan speed of 70,000 A-scans/sec results in very short examination times —typically under two seconds—improving efficiency and resulting in a very patient-friendly experience.

Canon's expertise in optics and innovative technology has resulted in a fantastic 3µm optical axial resolution for amazing scan quality. The built in Scanning Laser Ophthalmoscope (SLO) allows for high quality retinal observations and precise follow up examinations.



can easily be delegated and results are operator independent.

High Image Quality.

3µm axial optical resolution

Auto anterior eye alignment and tracking

The OCT-HS100 will automatically maintain the exact alignment on the center of the eye.

Auto Fundus tracking by SLO

By detecting the amount of movement in fundus images, the unit can automatically compensate for small involuntary movements of the eye.

Auto C-gate control (Coherence Gate)

Scan depth is automatically adjusted.

Auto Focus

Automatic compensation of patient refraction.

10 mm scan width

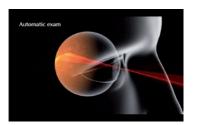
Increased effectiveness of examinations by capturing large areas with just one scan.

Easy examinations

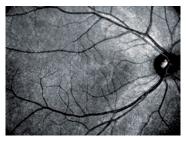
Five stored examination sets: Macula Disease, Glaucoma, Choroid, Anterior and General. Examinations for other retinal diseases can be easily created in the initial settings menu.

Extensive connectivity

The unit can be used stand-alone or in a network. Tomograms or reports can be output as JPEG, BMP or DICOM file.

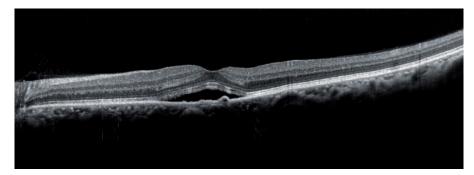


High scanning Speed 70,000 A-scans per second allow two-second examinations for reduced risk of motion artefacts and increased patient comfort.



Built in SLO For high quality retinal observation and precise follow up examinations

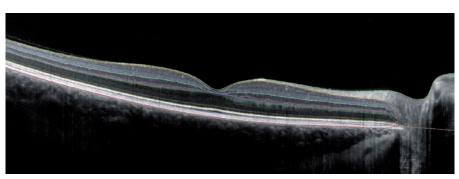
Main Features



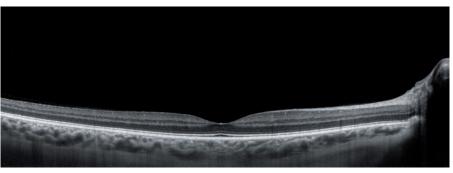
3μm axial resolution 3 micron resolution for unsurpassed image quality



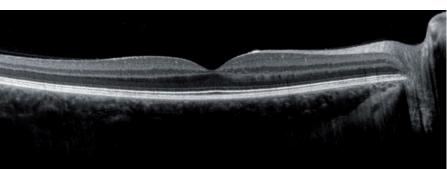
AveragingUp to 50 scans can be combined for the highest possible image quality



10 layer recognitionThe OCT-HS100 can recognize ten boundaries of the retina; detection of Bruch's membrane (BM) is now possible



Choroid and Vitreous mode
Using Enhanced Depth Imaging,
two modes can be selected based
on the pathology: Choroid Mode
(left) for detection of choroidal
neovascularization. Vitreous
Mode (below) for the detection
of epiretinal membranes or vitreo
macular traction;



Extensive software



Capture Screen

The capture screen displays a clear image of the anterior eye segment and retina (by SLO) as well as the OCT preview. The capture screen allows full control of the OCT-HS100: examination sets, fixation target, alignment and focusing.



Macula analysis*

Full retinal significance map Full retinal deviation map Full retinal difference map IS/OS - RPE thickness map RPE deformation map Inner retinal thickness map Outer retinal thickness map INFL+GCL+IPL1 thickness map

ETDRS sectors

Full retinal measurements table Central sector thickness Minimum fovea thickness Total area average thickness Total volume Full retinal time-line graph 3D object



Macula glaucoma analysis*

RNFL thickness map RNFL deviation map RNFL significance map LM-RPE thickness map

NFL+GCL+IPL deviation map
NFL+GCL+IPL significance map
NFL+GCL+IPL sectors
NFL+GCL+IPL time-line graph
NFL+GCL+IPL measurement table



Disc analysis*

3.45mm circle reconstruction tomogram RNFL thickness RNFL deviation map RNFL significance map RNFL thickness profile ONH measurement table RNFL measurement table RNFL sectors



SLO tracking follow-up

scan position and identical scan parameters: Scan mode, position and size, fixation target position and size.

^{*} For these analyses a Normative Database will be available in a next version of the OCT-HS100 software

Extensive scan modes



Macula 3D

An area scan is done centering on the macula., for examination of the macula and the deeper layers

Scan size 10 x 10 mm



Cross

High resolution scan with up to 50 time: averaging for highest image quality Scan size 3 x 3 to 10 x 10 mm



Glaucoma 3D

A vertical area scan of the macula for extensive analysis of the NFL+GCL+IPL



Multi Cross

Mult purpose high resolution scans with up to 10 times averaging. Scan size 3 x 3 to 10 x 10 mm



Disc 3D

Area scan for disc analysis Scan size 6 x 6 mm



Anterior 3D*

Area scan is perfromed on the anterior segment.

Scan size 6 x 6, mm



Custom

General application, for analysis of any disease
Scan size 3 x 3 to 10 x 10 mm



Anterior cross*

High resolution cross scan, for imaging cornea and angle.

Scan size 3 x 3 to 10 x 10 mm

* With optional adapter

Retinal Image Import with automatic overlay



Flexible Layout



Specifications

Working Distance



Imported retinal camera images are automatically aligned and overlaid on to the SLO image with precise position matching.





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.

A-scans/sec Max 70,000
Axial resolution 3 µm
Transversal Resolution 20 µm
Pupil size requirement Min 3.0 mm
Scanning width 2 ~10 mm
Scan depth 2 mm
OCT light source 855 nm ±5 nm

35 mm

Fundus Preview Fs SLO
Observation light source 780 ± 5nm
Internal Eye Fixation 2 mm or 6m

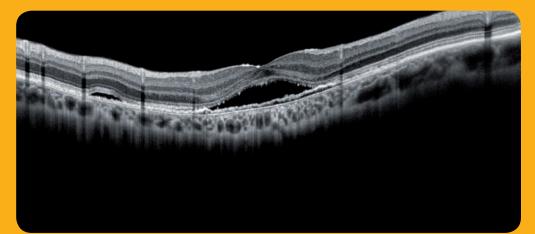
Internal Eye Fixation 2 mm or 6mm , 590nm (orange) Field of view 10 x 10 mm, OCT 33° x 33°, SLO 44° x 33°

Dimensions (WxDxH) 387 x 499 x 474 (mm)

Weight 29 (kg)

Optional Accessory Anterior segment adapter (ASA-1)

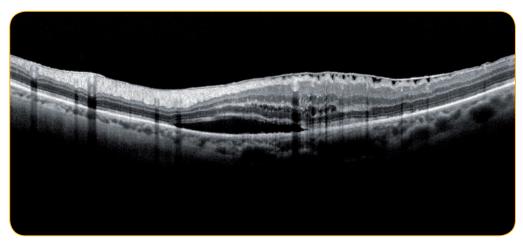
Clinical images



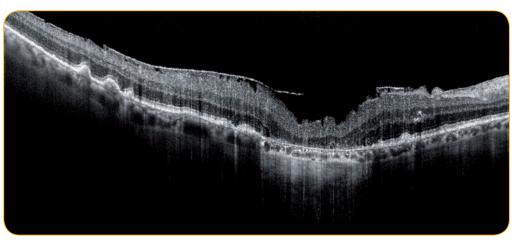
Macular Edema



Macular Dystrophy



Posterior Epithelium Detachment



Age-related Macular Degeneration



Canon has been defining the future with innovative solutions for more than 70 years. In all that time we've constantly strived to improve medical diagnostics in healthcare. Perhaps that's what made us a leading global provider of eye care solutions.



Our actions are based on honesty and sustainability.



Safety and quality are an integral component of our actions.



Everything we do has to have a superior customer advantage.

Choose the eye care system of the future and let our local, authorized Canon dealer advise you:



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