Specifications

Scan speed	70,000 A-scan/sec
Lateral resolution	20 µm
Depth resolution	3 µm
Scan depth	2.0 mm
Light source wavelength	855 nm
Minimum pupil diameter	φ 3.0 mm or more
Focus adjustable range	-18 D to +15 D
Working distance	35 mm
Fundus preview	Flyingspot SLO
Scan size	3 mm–10 mm
Scan pattern	Macula 3D/Glaucoma 3D/Disc 3D/Custom 3D/Multi Cross/Cross/Anterior 3D/Anterior Cross
Internal fixation target	2 stage changeable (2 and 6 mm)
Power supply	AC100–240 V 50/60 Hz 3.7–1.6 A
Power consumption	Approx. 370 VA
Outer size	W387 x D499 x H474 mm
Mass	29 kg
Option	Anterior observation adaptor ASA-1

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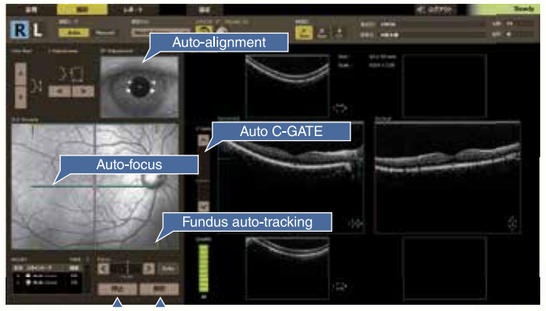
OCT-HS100

Optical Coherence Tomography

High-resolution (3 µm) and high-speed scanning (70,000 A-scan/sec) brings high-quality images to enhance the quality of retinal diagnosis.

Various automatic functions make operation environments comfortable and fast.



With just 2 clicks, tomographic images are presented

Tomographic images can be produced and presented in 2 clicks. In addition to mouse operations, images can also be displayed easily with keyboard operations.

1 **1st click** Self-adjust starts.

2 **2nd click** Tomographic images are captured.

Auto-tracking

Auto-tracking function makes tomography accurate in targeted regions. The tracking function can be switched ON and OFF.

Anterior auto-tracking

Auto-tracking tracks the image of pupil center or the manually-selected area.

Fundus auto-tracking

After fundus preview starts, scan point is tracked according to fixational eye movements.

Auto-alignment/Auto-focus/ Auto C-GATE*

*C-Gate: Standard interference point

Self-adjust function is well-developed and reduces operation steps and time.

Auto-alignment A first for OCT in the industry*1
The device detects the pupil center and automatically sets the point.

Auto-focus The device can automatically detect the focus point and appropriately adjust it.

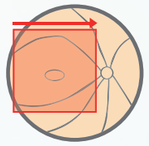
Auto C-GATE Following tomography preview displays, appropriate tomogram position is automatically detected and adjusted.

*1: Based on research by Canon in August 2012.

8 scan modes selectable according to purpose

For macular analysis of macular disease

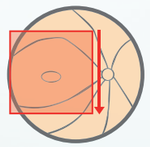
Macula 3D



Scan size: 10 × 10 mm

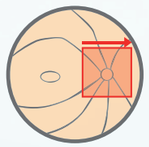
For macular analysis of glaucoma disease

Glaucoma 3D



Scan size: 10 × 10 mm

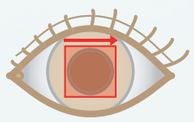
Disc 3D



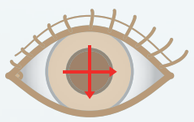
Scan size: 6 × 6 mm

For anterior imaging*2

Anterior 3D



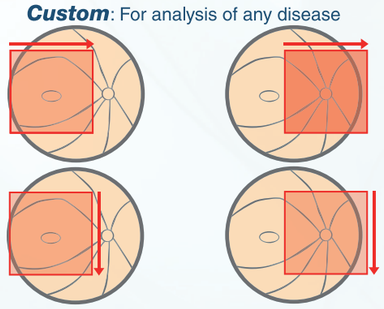
Anterior Cross



Scan size: 3 × 3 mm to 6 × 6 mm

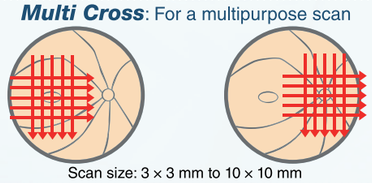
For general usage

Custom: For analysis of any disease



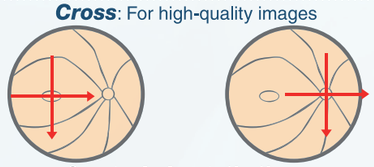
Scan size: 3 × 3 mm to 10 × 10 mm

Multi Cross: For a multipurpose scan



Scan size: 3 × 3 mm to 10 × 10 mm

Cross: For high-quality images



Scan size: 3 × 3 mm to 10 × 10 mm

*2: Anterior observation adaptor (option) is necessary.

Follow-up function of previous study

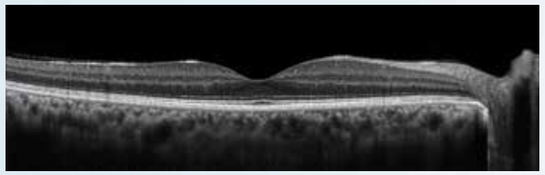
- Images of the same regions taken in previous tests also can be taken using the fundus auto-tracking function.
- Follow-up test setting is automatically selected when a study is chosen in the patient screen.

Function set in the same conditions as the previous study

- Right and left eyes
- Scan mode
- Scan position
- Scan size
- Scan interval
- Number of averaged images
- Automatic mode/Manual mode
- Choice of internal/external fixation target
- Size of internal fixation target
- Position of internal fixation target
- Direction of C-Gate

Choroid observation setting

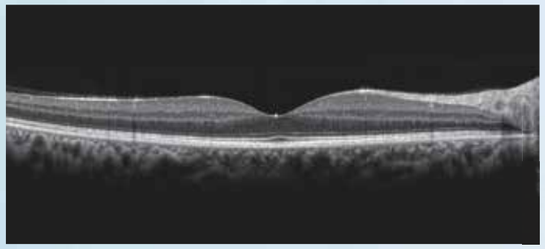
As C-Gate is set at the choroidal side, images of choroid are displayed more clearly.



In choosing Macula 3D, Multi Cross, Custom 3D, or Cross

Noise reduction by averaging up to 50 images

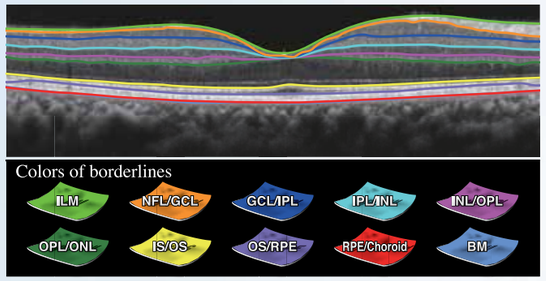
High-quality and noise-reduced images are provided by averaging up to 50 tomographic images.



Number of images **Multi Cross Scan: 5 and 10 tomographic images, Cross Scan: 5, 10, 20 and 50 tomographic images**

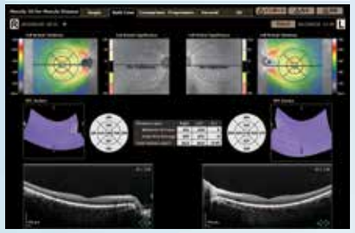
Retinal layer boundary recognition

Retinal layers are able to be distinguished, including Bruch's membrane.



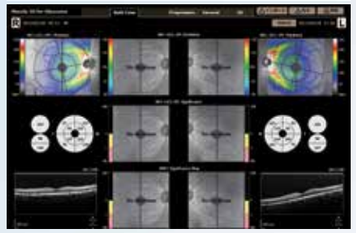
Various analyses according to disease

Macular analysis report for diagnosis of macular disease
Scan mode: ***Macula 3D***



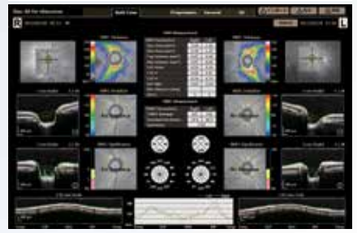
Report with detailed indication of retinal depth

Macular analysis report for glaucoma diagnosis
Scan mode: ***Glaucoma 3D***



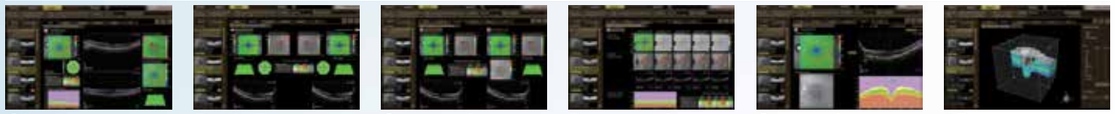
Report focusing on the depth of "NFL+GCL+IPL"

Disc report for glaucoma diagnosis
Scan mode: ***Disc 3D***



Report focusing the depth of "NFL" and the parameter for measuring the optic nerve head (ONH)

Comparative data analysis display (available in analysis according to disease)



Single ***Both Eyes*** ***Comparison*** ***Progression*** ***General*** ***3D***

No normative database is installed initially. A database will be provided at later stage.