essilor

OPTICAL COHERENCE TOMOGRAPHY WITH INTEGRATED FUNDUS IMAGING

OCT 500

ADVANCED ROBOTIC OCT

ESSILOR INSTRUMENTS

OCT 500

SUPERB OCT TECHNOLOGY READY FOR DELEGATION

An easy-to-use and completely automated OCT with color fundus photography to provide comprehensive glaucoma and retinal pathologies analysis

MORE DETAILS IN LESS TIME

A scanning speed of 50,000 A-scans/sec allows for faster tomography acquisition and produces clear, high-definition cross-sectional retinal images through a simple interface.

FOLLOW-UP SCAN

Easy retrieval, analysis, and comparison of past and current images for efficient eye care diagnosis

WIDE FIELD OCT SCAN

The 12mm x 9mm wide field OCT scan for the optic nerve and macula provides a fast screening and clear overview in a single image.

KEY FEATURES

- Fully-automated operation with follow-up scan function
- True color fundus photography
- Anterior segment analysis
- Extended range of analysis function for the pupil and macula
- Compact and space-saving design
- Network and DICOM connectivity

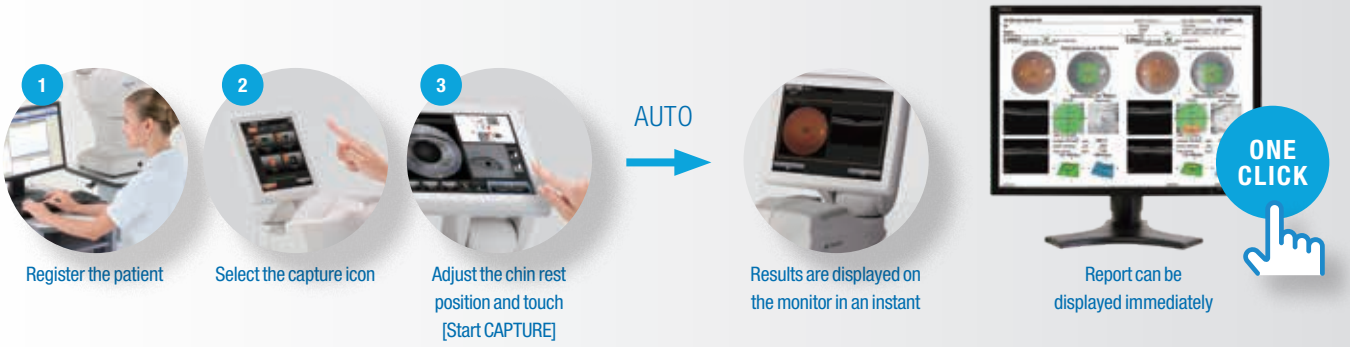
FULLY-AUTOMATIC OCT

FULLY-AUTOMATIC OCT WITH SIMPLE TOUCHSCREEN

The OCT™ 500 is the most user-friendly OCT on the market due to its fully automated function. With one touch on the screen, eye focus, optimization, and image capture are performed automatically. After capturing, the report can be displayed immediately by clicking on a single icon.

STEREO MATCHING AUTOMATIC ALIGNEMENT

Unique alignment technology provides a quick and stable alignment.

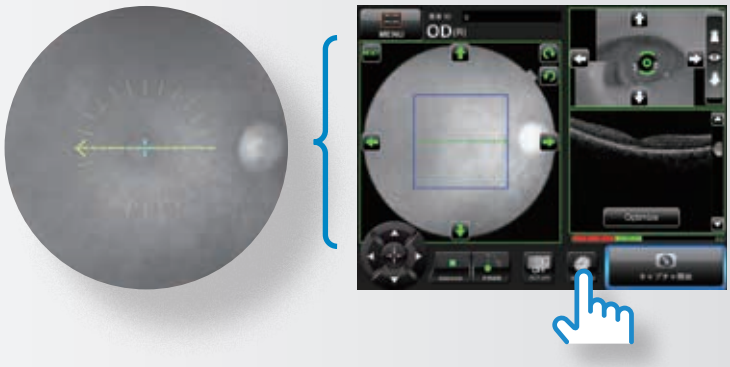


Register the patient | Select the capture icon | Adjust the chin rest position and touch [Start CAPTURE] | Results are displayed on the monitor in an instant | Report can be displayed immediately

FLEXIBLE ACQUISITION CAPABILITIES

SEMI-AUTOMATIC OR MANUAL CAPTURE

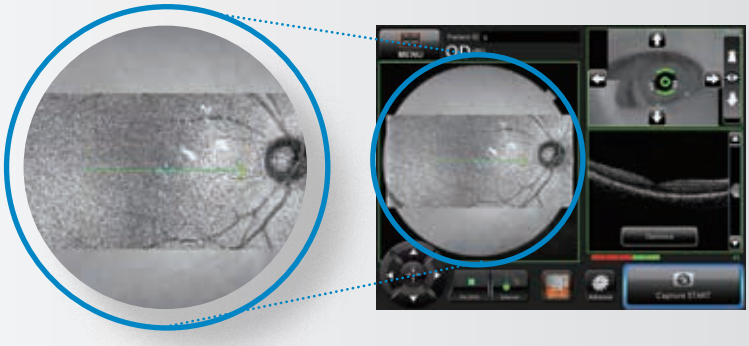
Semi-automatic or manual mode is available to help adjust the alignment and scanning position for patients. A variety of functions are available and easily accessed on the touchscreen monitor.



LIVE FUNDUS VIEW™

Live Fundus View™ (OCT-LFV) is a tool to enable image capture through smaller pupils down to a diameter of 2.5mm.

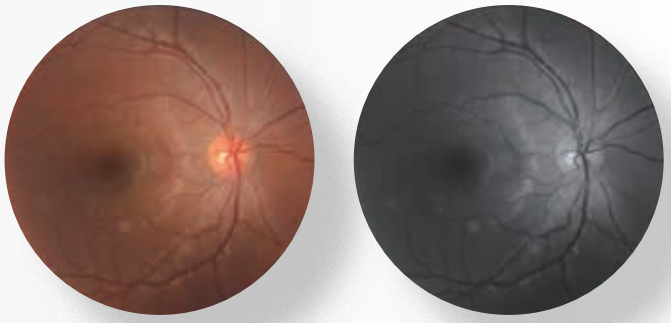
OCT-LVF is a live projection image with reflection of the retina. It gives a clear live fundus image with clear sight of the disc, retinal vessels, and scanning position.

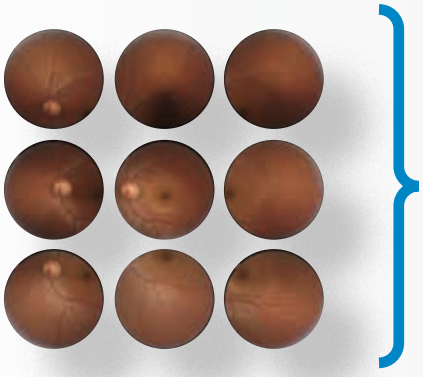


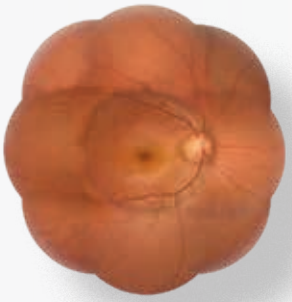
OCT WITH FUNDUS

TRUE COLOR FUNDUS PHOTOGRAPHY

The OCT™ 500 has an integrated full color fundus camera. With one touch, you can simultaneously acquire a posterior OCT image and a fundus image. This fundus photo can help to locate quickly the exact position of the OCT-scan and provide additional information for diagnosis of various retinal diseases.

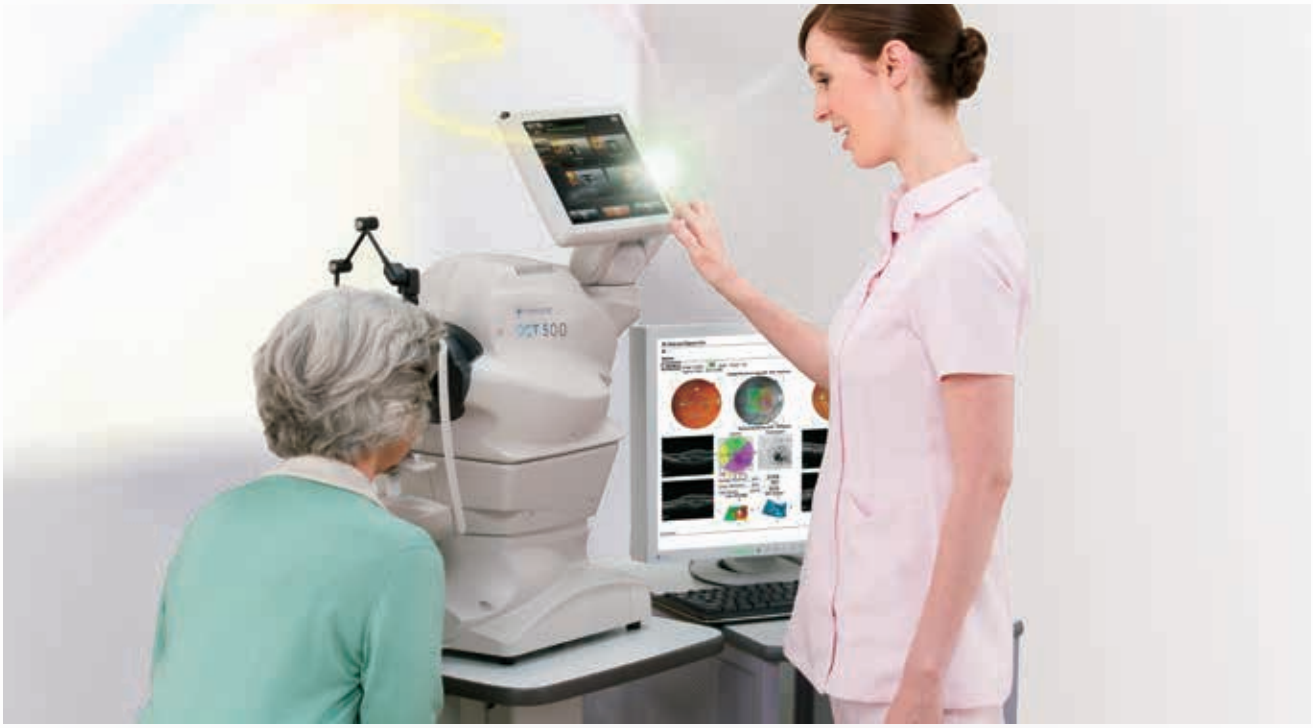






PERIPHERAL FUNDUS PHOTOGRAPHY

The 9-point fixation target in the 3D OCT-1™ allows the operator to make nine different color fundus photos and compose them into one total overview of the fundus. With optional software, a panoramic or mosaic overview can be created.



THE FUNDUS IN DETAIL

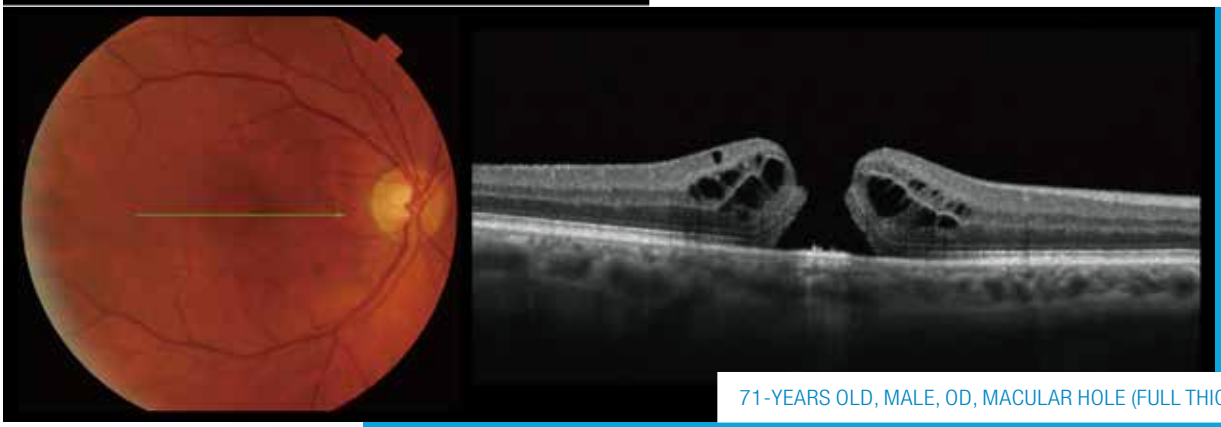
HIGH-QUALITY / HIGH-RESOLUTION OCT WITH COLOR FUNDUS PHOTOGRAPHY

50,000 A-scans/sec. speed produces fine B scan and smooth 3D graphics to facilitate the observation of different pathologies on each layer of the retina. Combined with high-quality color fundus photography, the OCT provides detailed information for patient diagnosis on a daily basis.

85-YEARS OLD, MALE, OD. BRANCH RETINAL VEIN OBSTRUCTION

62-YEARS OLD, MALE, OS, DIABETIC RETINOPATHY AND CIRCINATE EXUDATE

97-YEARS OLD, FEMALE, OD, AGE-RELATED MACULAR DIGENERATION



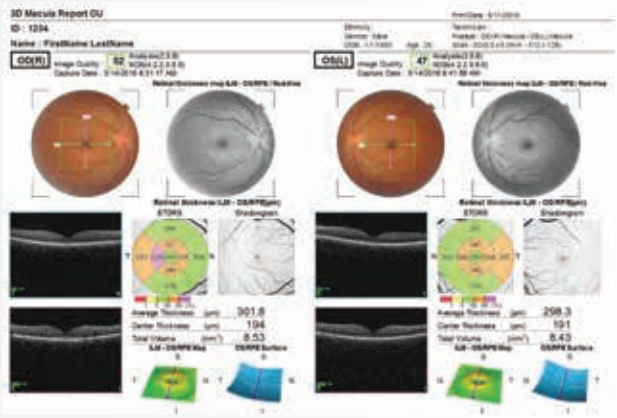
71-YEARS OLD, MALE, OD, MACULAR HOLE (FULL THICKNESS)

ACQUISITION MODES

MACULA MODES

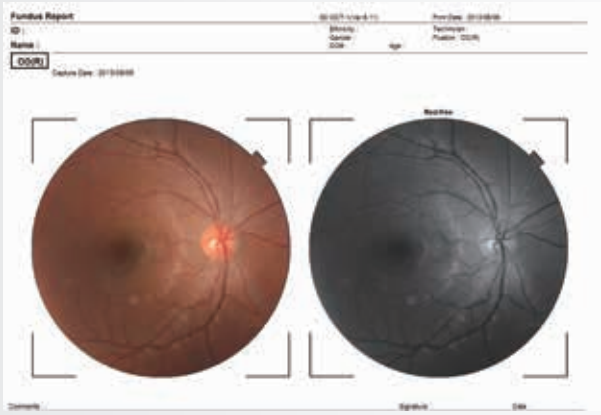
5 LINE CROSS SCAN

The 5-line cross scan scans horizontally and vertically in an instant for quick scanning while maintaining the target position. This is useful for screening and for follow-up.



3D MACULA ANALYSIS

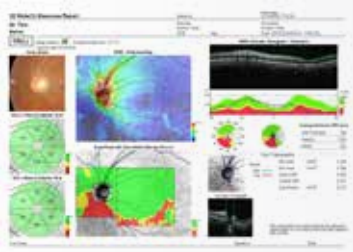
3D imaging is a useful tool to understand the complete form of the fovea. 3D scanning is available in 6 x 6mm area scans. The retinal thickness map and reference database are included in this report.



COLOR FUNDUS PHOTOGRAPHY / PERIPHERAL FUNDUS PHOTOGRAPHY

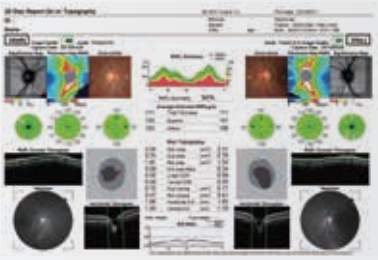
Non-mydriatic color fundus photography is available with a report, as well as peripheral fundus photography.

GLAUCOMA MODES



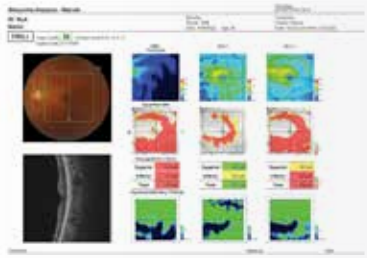
3D WIDE SCAN (12MM X 9MM)

This scan provides images of the macula and optic nerve in one report, providing retina, RNFL, and GCL analysis. Reference database of the RNFL, GCL+, GCL ++, and total retina are automatically generated.



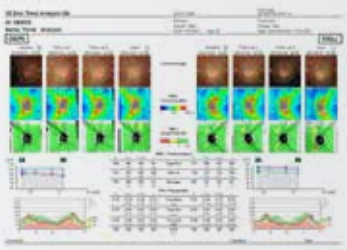
3D DISC ANALYSIS

Combines disc topography, fundus photography, various peripapillary parameters and RNFL thickness measurements. The reference database for RNFL and disc parameters is also incorporated.



3D MACULA GCL ANALYSIS

Using the 3D macula scan, GCL analysis is also available. Reference database for GCL+ and GCL++ is incorporated into the report as well as symmetry analysis.



TREND ANALYSIS (RNFL)

Baseline and up to three most recent visits can be compared and analyzed. Trends of disc parameters and reference database are also provided.

SPECIFICATIONS

OBSERVATION AND PHOTOGRAPHY OF FUNDUS IMAGE

Scan mode	Color, Red-free* & IR**
Picture Angle	45°±5% or less 30° or equivalent (digital zoom)
Operating Distance	34.8mm (in fundus photography)
Photographable Diameter of Pupil	Normal pupil diameter: 4.0 mm or more Small pupil diameter: 3.3 mm or more

OBSERVATION AND PHOTOGRAPHING OF THE FUNDUS/TOMOGRAM

Scan mode	(on fundus) Horizontal direction 3 - 12 mm Vertical direction 3 - 9 mm
Scan pattern	3D scan (horizontal/vertical) Linear scan (Line-scan/Cross-scan/Radial-scan)
Scan Speed	50,000 A-Scans per second
Lateral Resolution	20 µm or less
In-depth Resolution	6 µm or less
Photographable diameter of Pupil	2.5 mm or more
Internai Fixation Target	Dot matrix type organic EL (The display position can be changed and adjusted. The presenting method can be changed.

ELECTRIC RATING

Source Voltage	AC 100-240V
Power Input	70-150VA
Frequency	50Hz-60Hz

DIMENSIONS AND WEIGHT

Dimensions	13.4 - 18.9 in (W) x 21.4 - 26.8 in (D) x 20.9 - 28.9 in (H)
Power Input	55 lb

OBSERVATION AND PHOTOGRAPHING OF ANTERIOR SEGMENT

Photography type:	Color & IR*
Operating Distance:	62.6 ±0.1 mm (when taking a picture of anterior segment)***

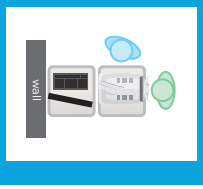
OBSERVATION AND PHOTOGRAPHING OF THE ANTERIOR SEGMENT TOMOGRAM

Scan Range (on cornea):	Horizontal direction 3 - 6 mm ±5% or less Vertical direction 3 - 6 mm ±5% or less
Scan pattern:	Linear scan (Line-scan/Radial-scan)
Fixation target:	External fixation target

* Digital red-free photography that processes a color image and displays it in pseudo-red-free condition
** This is used only for recording the position where a tomogram is captured
*** When the attachment for anterior segment is included in the system configuration

FLEXIBLE LAYOUT

The OCT™ 500 is incorporated with a flexible touchscreen monitor. This allows the operator to choose their positioning in relation to the patient and to optimize the prescreening room set-up with optional placement against a wall or in a corner.



Its compact design and small footprint can be installed on a small table or even a refraction stand.

As improvements are made, these specifications and pictures are not contractually binding and may be changed without prior notice.

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