



Cirrus™ HD-OCT

**Details define
your decisions**

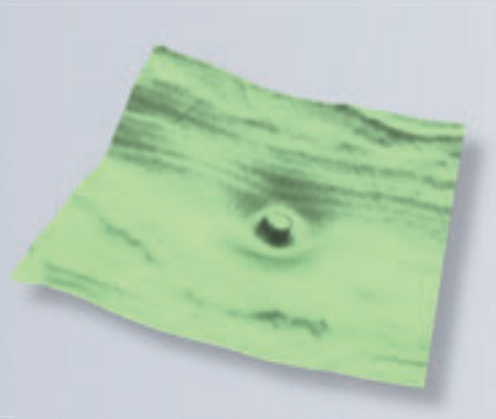
ZEISS



With high-definition OCT – Carl Zeiss Meditec takes you beyond standard spectral domain

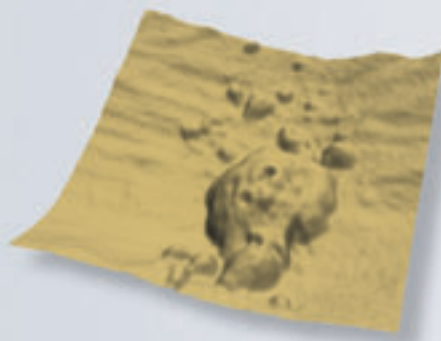
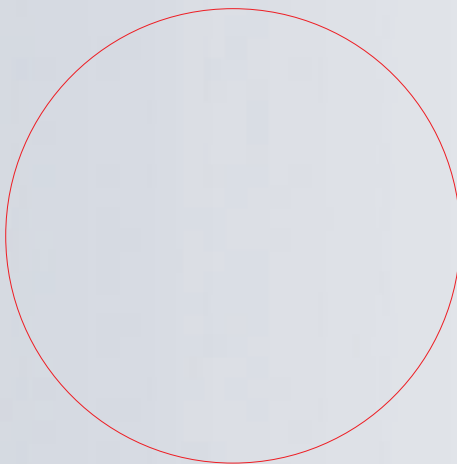
Built on 10 years experience at the vanguard of innovation, Carl Zeiss Meditec OCT technology has become the recognized standard of care. Now, Cirrus HD-OCT offers another leap forward with a superior platform that delivers unprecedented imaging details for clinical decision making.

- ZEISS optics provide superior visualization of anatomical details across a wider range of patients
- Robust engineering with premium components ensures consistent precision performance
- Unique HD layer maps and images highlight clinically relevant details for identification and monitoring of specific diseases – all at a glance



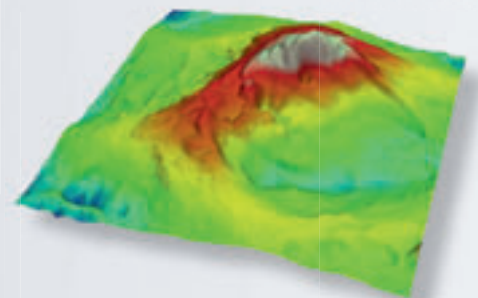
HD layer map of ILM

See the distortion of the inner limiting membrane associated with vitreomacular traction



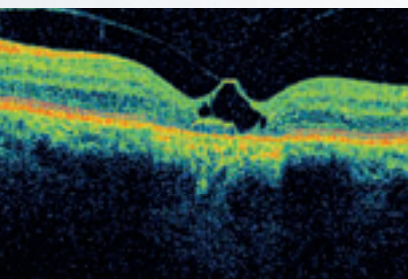
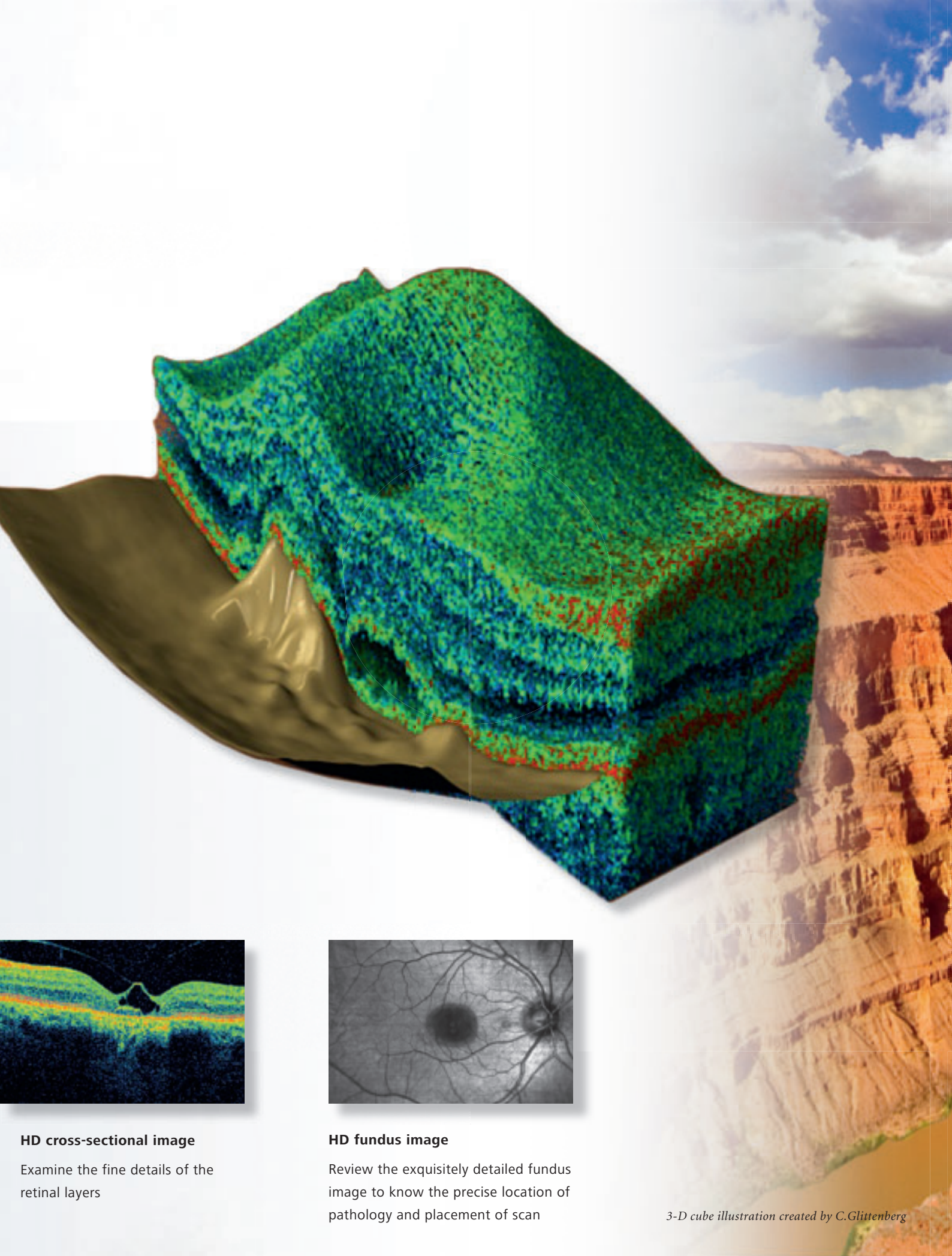
HD layer map of RPE

Observe the retinal pigment epithelial elevation with pigment epithelial detachment



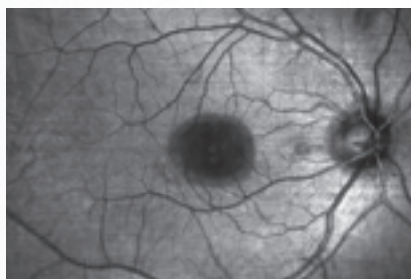
HD retinal thickness map

Identify the edema associated with epiretinal membrane



HD cross-sectional image

Examine the fine details of the retinal layers



HD fundus image

Review the exquisitely detailed fundus image to know the precise location of pathology and placement of scan



Immerse yourself in the image

Some views draw the observer directly into the picture – views such as those offered by Cirrus HD-OCT. This new high-performance OCT instrument from Carl Zeiss Meditec offers a quantum leap forward. Featuring spectral domain technology, Cirrus HD-OCT delivers exquisite high-definition images of the ocular structures. For the first time, immerse yourself in truly grand views.

Discover Real-Time Registration

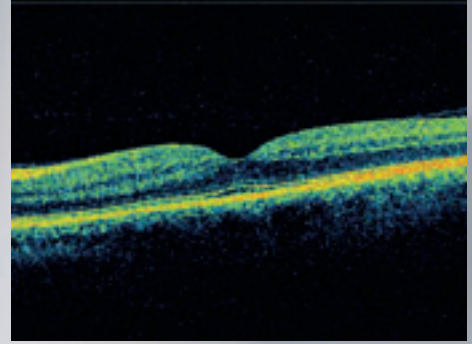
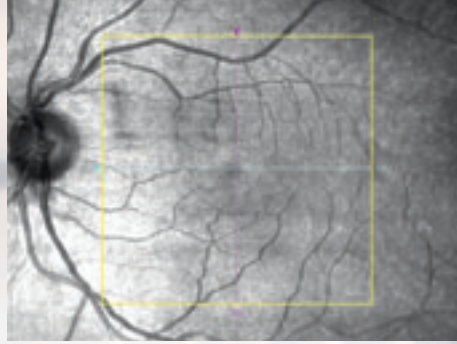
Cirrus HD-OCT enables repeatable visualization of clinically relevant anatomy with exact correlation between the OCT scan and the fundus image. Comprehensive navigational tools ensure efficient and simple operation.

Designed for efficiency

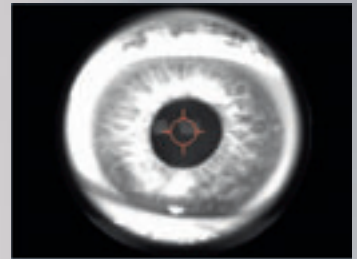
- Small footprint and integrated design are ideal for crowded or busy practice
 - 90 degree orientation facilitates observation of patient throughout exam
 - Advanced optics aid in the examination of patients with cataracts. Dilation is not required even for pupils as small as 2.5 mm
- Mouse Driven Alignment™ delivers superior image capture and analysis in just a few clicks, resulting in reduced chair time for the patient
 - Auto Patient Recall™ assures patient position and instrument setting are repeated from previous visit



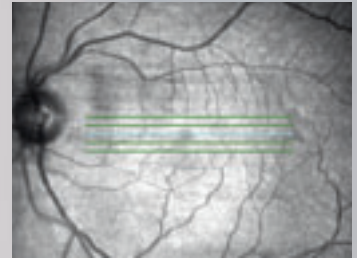
Simultaneous capture of fundus image and OCT image provides exact Real-Time Registration™



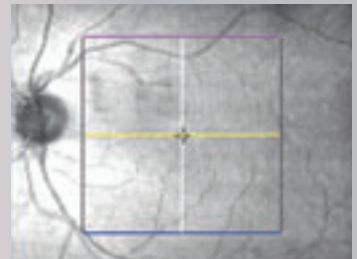
Iris viewer provides clear visualization of the pupil for simple Mouse Driven Alignment™



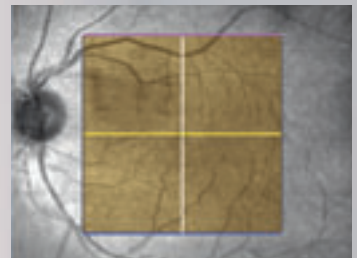
Line scanning ophthalmoscope (LSO) allows for accurate and specific targeting of pathology creating beautiful high-quality fundus images



Live Precision Targeting™ enables the operator to move the scan box within the 30° x 36° field of view without adjusting patient fixation



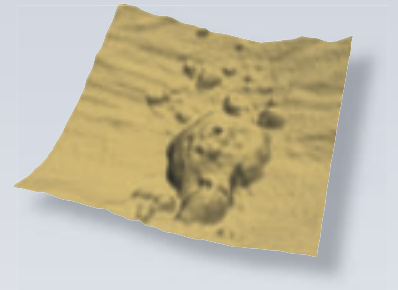
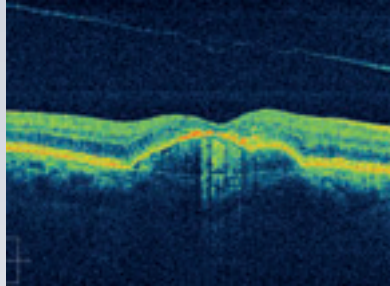
Visit-to-visit registration with overlay of the fundus image from the previous scan assures reproducibility



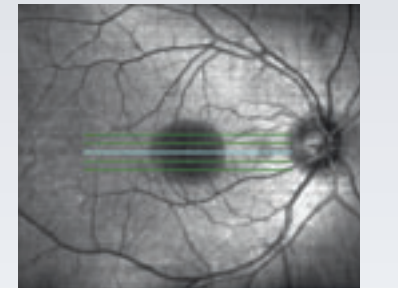
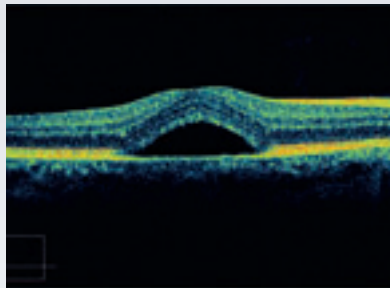
Breathtaking Details

Cirrus HD-OCT provides uniquely detailed HD maps and images that come from advanced analyses and next generation precise algorithms.

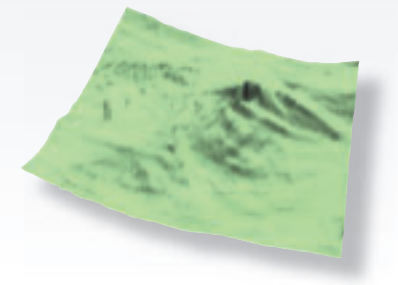
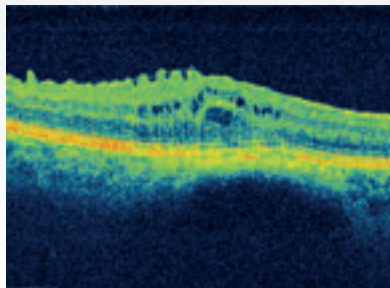
Age-Related Macular Degeneration



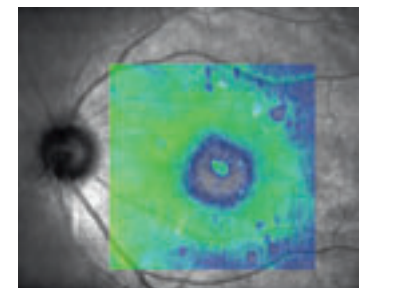
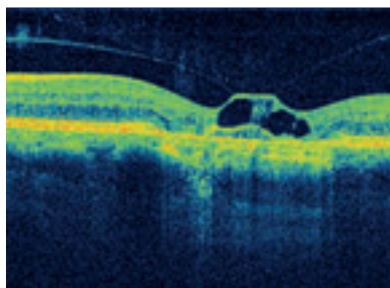
Central Serous Chorioretinopathy

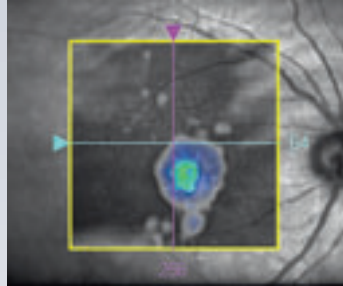
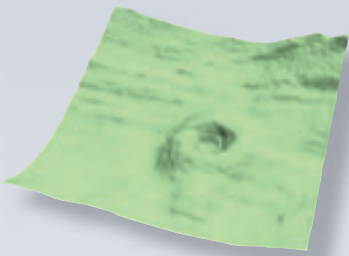


Epiretinal Membrane

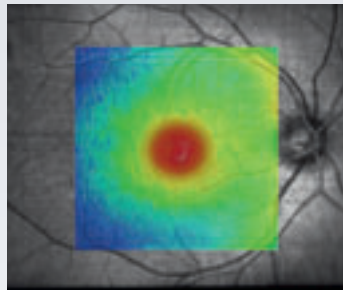
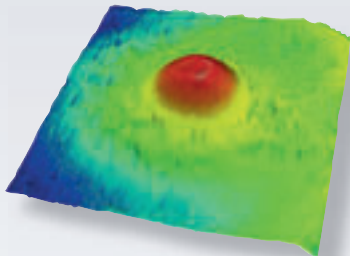


Vitreomacular Traction with Geographic Atrophy

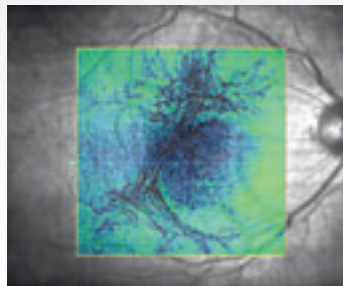
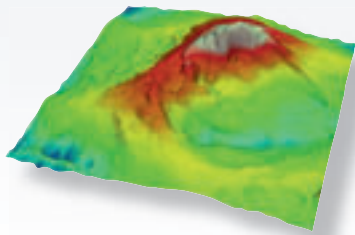




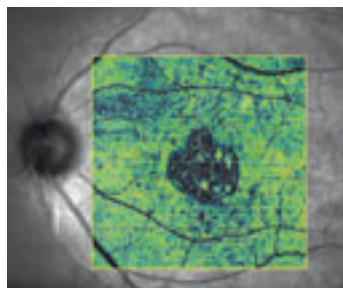
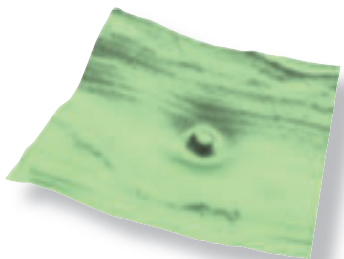
- HD OCT image is a high-definition cross-sectional view that reveals subtle details of pathology
- HD RPE layer map displays the extent of the sub-foveal lesion and location of drusen
- HD ILM layer map shows the foveal pit is still present
- RPE deviation map aligns RPE disturbances to the fundus, using RPE-RPE fit map



- HD OCT image reveals the retinal layers in exquisite detail. Exact location of this image is indicated on LSO fundus image
- LSO fundus image indicates fluid buildup and shows distinct features of retinal vasculature
- HD thickness map displays irregularity of retinal thickness
- Thickness map overlay demonstrates how the thickening relates to the fundus



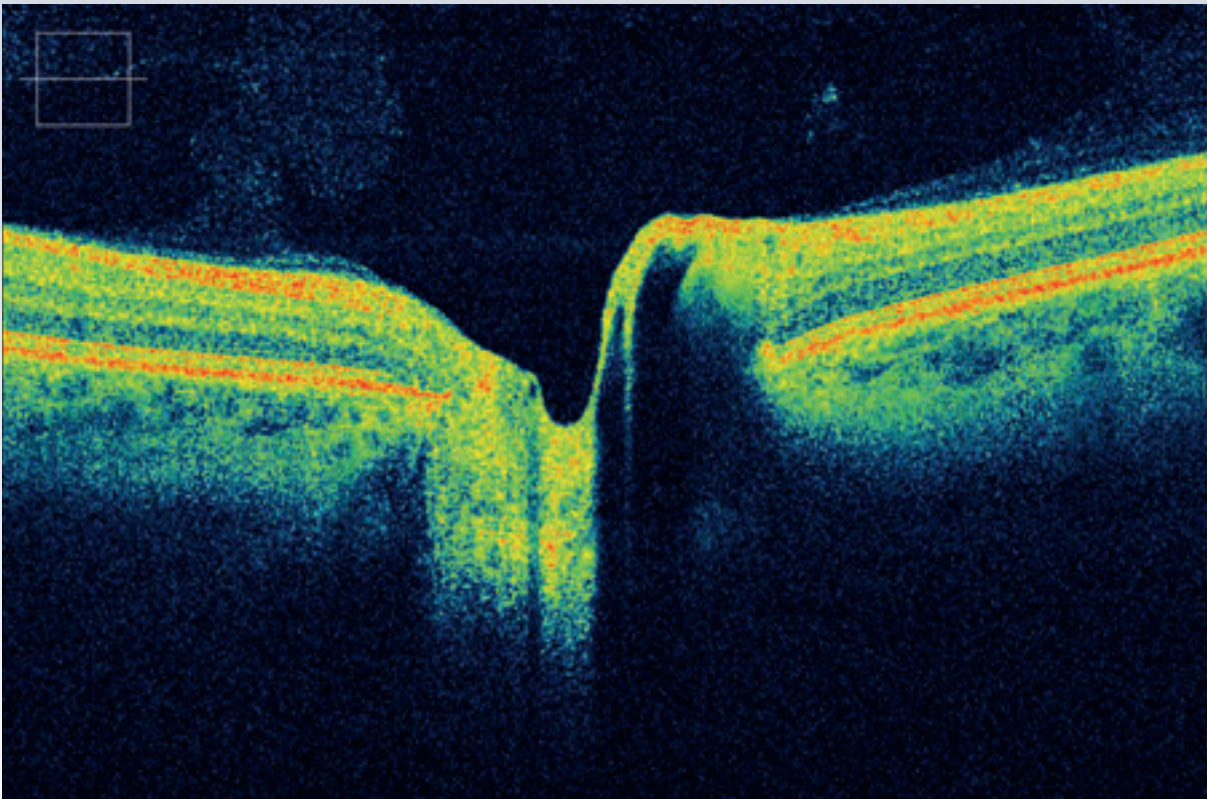
- HD OCT image shows deformation of the normal retinal contour
- HD ILM layer map displays puckering of the ILM caused by traction from the ERM
- HD thickness map indicates thickening of retinal tissue
- Tissue layer overlay demonstrates the extent of the ERM aligned with the fundus



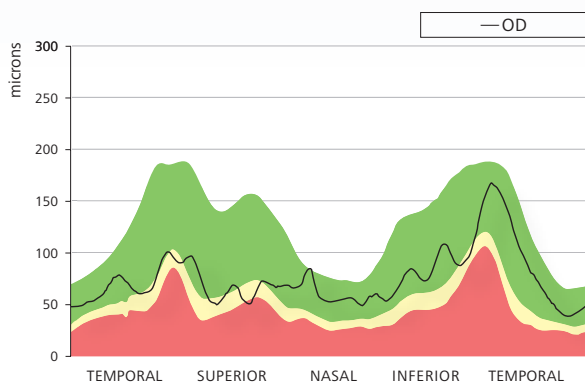
- HD OCT image shows attachment of the posterior hyaloid to the fovea and contortion of the retinal tissues
- Fundus image with thickness map overlay relates the fundus image to the underlying condition
- HD ILM layer map shows cylindrical distortion from traction on ILM
- Tissue layer overlay allows you to see the area where reflectivity properties have changed due to disruption of photoreceptors

Know the Precise Location

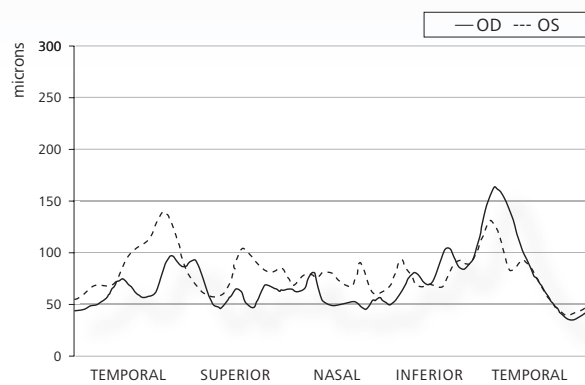
Unique registration algorithm assures accurate and precise location of peripapillary circle for RNFL analysis



HD OCT image provides high-definition, high-resolution cross-sectional image of the optic nerve head

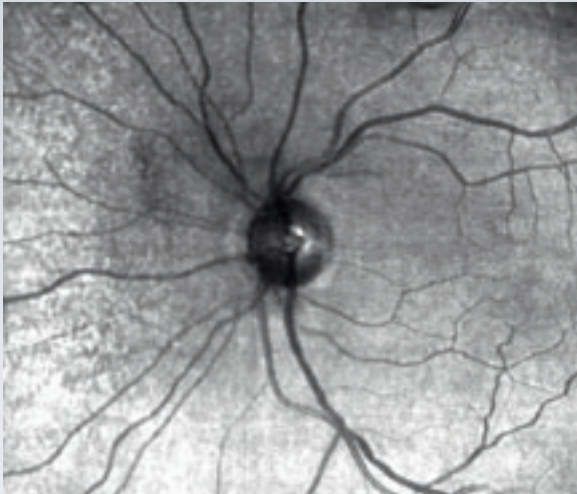


TSNIT graph plots RNFL thickness and compares it to a normative database

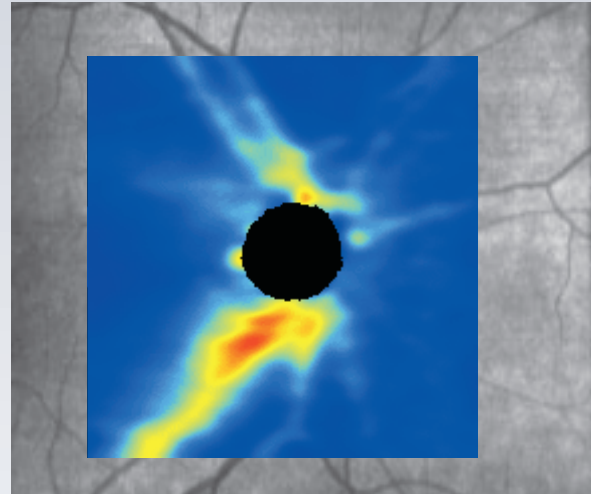


OU TSNIT graph displays RNFL thickness of both eyes for identification of asymmetry

High-definition data acquisition and advanced analysis provide precise registration and excellent reproducibility critical for glaucoma detection and management



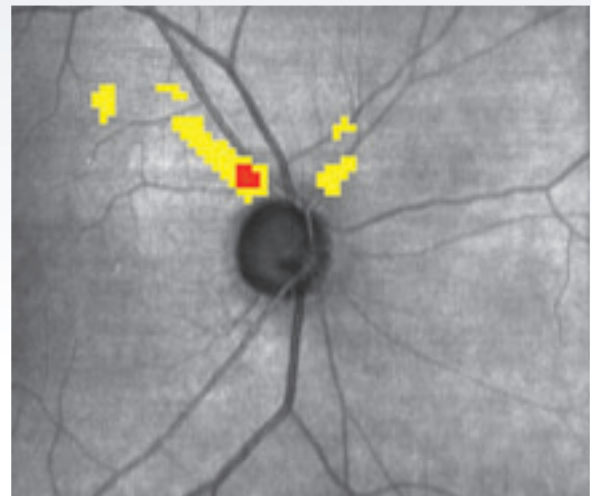
LSO provides an exquisite fundus image for visualization of the optic nerve head



RNFL thickness map presents the pattern and thickness of the nerve fiber layer and aids in the detection of pattern defects



LSO with OCT fundus overlay from previous visit demonstrates visit-to-visit registration, assuring excellent reproducibility



Deviation map, overlaid on OCT fundus image, illustrates where RNFL thickness deviates from a normal range

At a Glance: Critical Details

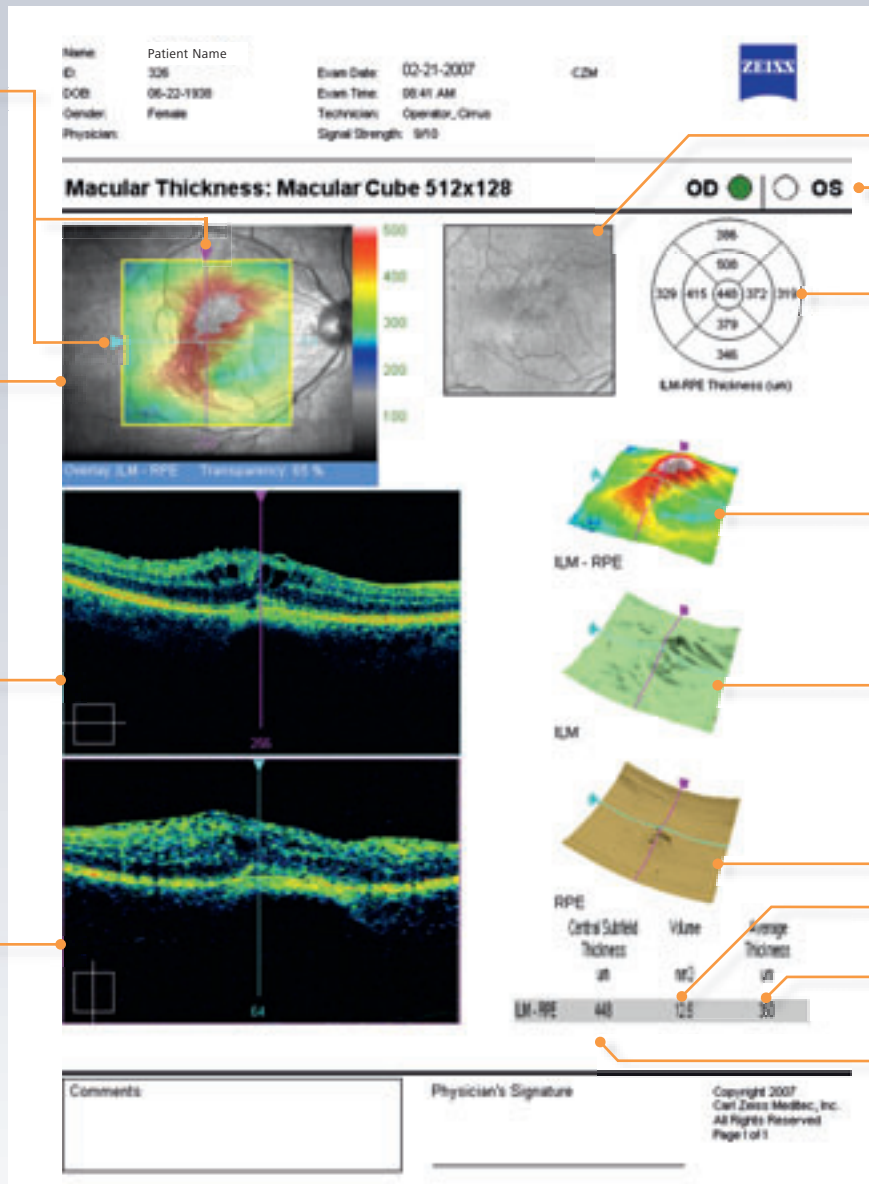
Macular Thickness Report

Slide Navigator™ enables a simultaneous view of a selected point on LSO image, OCT fundus image, HD thickness map, HD layer maps, and HD OCT image displays

HD fundus image, here shown with ILM-RPE retinal thickness map overlay

Framed in blue, this image corresponds to the horizontal crosshair line on fundus image above

Framed in pink, this image corresponds to vertical crosshair line on fundus image above



HD OCT fundus image

Right/Left eye indicator

Macular thickness values, from ILM to RPE, in microns

HD thickness map

HD ILM layer map

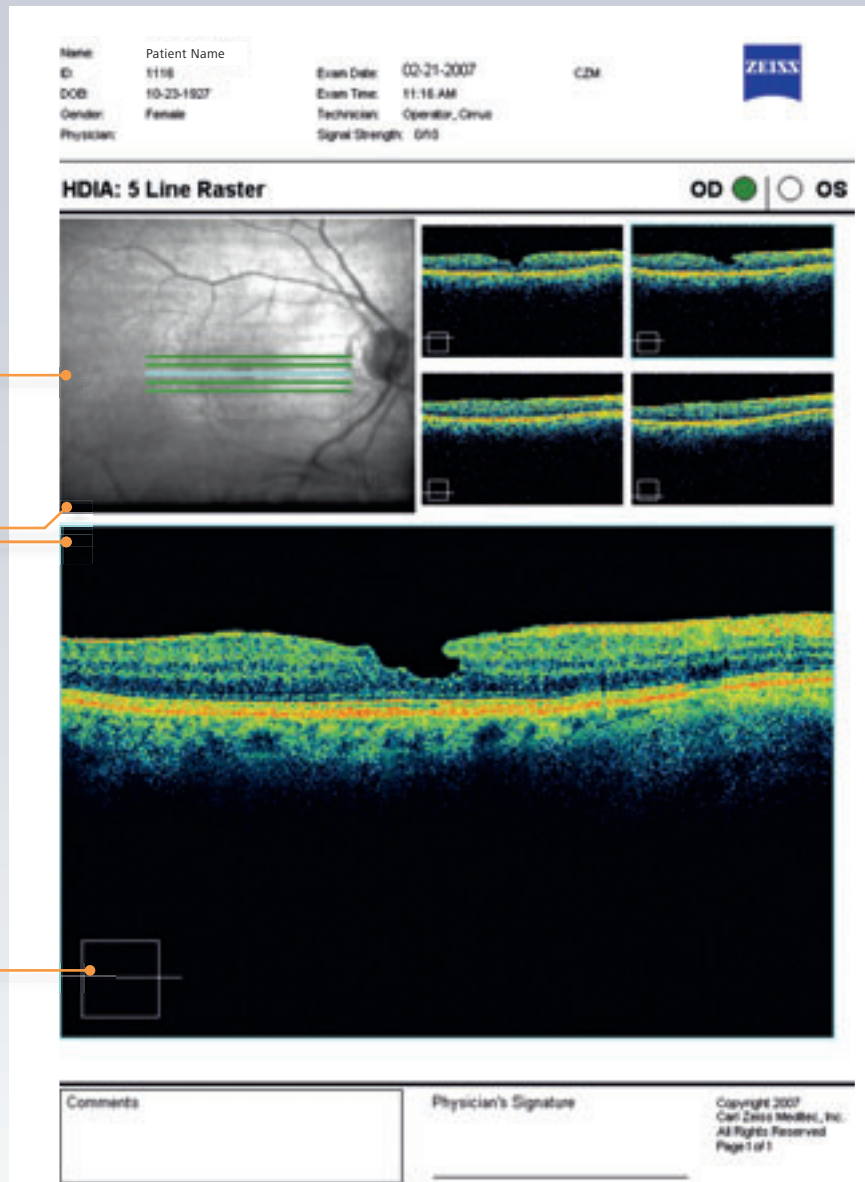
HD RPE layer map

Macular volume, in cubic millimeters

Average macular thickness, in microns

Central subfield thickness, in microns

High-Definition Image Analysis Report



Custom Report

Name: Patient Name
 ID: 1115 Exam Date: 02-21-2007
 DOB: 06-03-1928 Exam Time: 10:35 AM
 Gender: Female Technician: Operator, Cirrus
 Physician: Signal Strength: 910

Custom Report: Macular Cube 512x128 Combo
OD OS

Blue line on horizontal and vertical OCT images corresponds with exact location of tissue layer which is mapped and displayed on the right

The companion fundus image for an HD OCT image shows the precise position of the displayed scan

When a fundus image with overlay is displayed, an information text box is provided

Tissue layer map

HD OCT image

Fundus image with overlay

Comments _____ Physician's Signature _____

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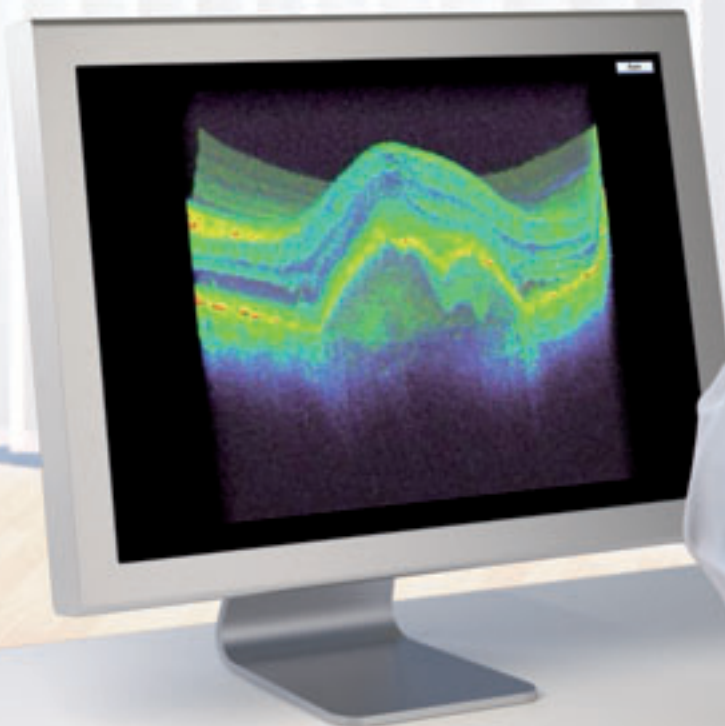
The custom print mode generates a single page or multi-page report of selected scan, fundus, and fundus overlay images from any advanced interactive analysis screen. Each selection is displayed with a description or companion image for orientation

Confidence at the Point of Care

Cirrus HD-OCT Review Software puts critical measurements and information right at your fingertips. Using the Review Software, you can import, view, analyze and manage Cirrus HD-OCT exam data – in the clinic, in your office or in a remote location.

- On-screen analysis conveniently displays critical information for therapeutic decision making
- Single-station review allows you to view Stratus OCT and Cirrus HD-OCT results side by side
- 3-D rendering of macula and optic nerve head provides new ways of visualizing the retina

Cirrus HD-OCT delivers innovative capabilities that help you perform better patient care. Its superb image quality and efficiencies help to increase clinical confidence and provide new opportunities for patient education.



Cirrus HD-OCT

The Experience Goes Beyond Technology

At Carl Zeiss Meditec, performance and quality don't stop at technology. We go far beyond by advancing the standard of care with innovations such as Cirrus HD-OCT. And along with our dedication to clinical and

technical excellence, we offer world-class training, on-site support and ongoing educational opportunities. Immerse yourself in the ZEISS experience.

Technical data	
OCT Scanning	<ul style="list-style-type: none"> • Axial resolution: 5 µm (in tissue) • Transverse resolution: 15 µm (in tissue) • Scan speed: 27,000 A-scans per second • A-scan depth: 2.0 mm (in tissue), 1024 points • Optical source: superluminescent diode (SLD), 840 nm
Fundus Imaging	<ul style="list-style-type: none"> • Line scanning ophthalmoscope (LSO) • Live during scanning • Transverse resolution: 25 µm (in tissue) • Optical source: superluminescent diode (SLD), 750 nm • Field of view: 36° x 30°
Scan Patterns	<ul style="list-style-type: none"> • Macular Cube 200 x 200 Combo: 200 horizontal scan lines comprised of 200 A-scans • Macular Cube 512 x 128 Combo: 128 horizontal scan lines comprised of 512 A-scans • 5 Line Raster: 4096 A-scans per B-Scan (adjustable length, spacing and orientation)
Focus Adjustment Range	<ul style="list-style-type: none"> • -20D to +20D (diopters)
Fixation	<ul style="list-style-type: none"> • Internal and external
Computer	<ul style="list-style-type: none"> • Windows® XP Pro • High-performance multi-core processor • Internal storage: > 80,000 scans • CD-RW, DVD-ROM drive • Integrated 15" color flat panel display
Pupil Size Requirement	<ul style="list-style-type: none"> • ≤ 2.0 mm (≥ 3.0 mm optimal for LSO)
Dimensions/Weight (Instrument Only)	<ul style="list-style-type: none"> • 25.6 L x 17.3 W x 20.9 H (in); 65 L x 44 W x 53 H (cm) • 83 lbs; 37.6 kg
Electrical	100–120V~, 50/60Hz, 5A 220–240V~, 50/60Hz, 2.5A

Technical specifications are subject to change.

Carl Zeiss Meditec AG
 Goeschwitzer Str. 51–52
 07745 Jena
 GERMANY

Phone: +49 36 41 22 03 33
 Fax: +49 36 41 22 02 82
 info@meditec.zeiss.com
 www.meditec.zeiss.com

Carl Zeiss Meditec Inc.
 5160 Hacienda Drive
 Dublin, CA 94568
 USA

Phone: +1 925 557 4100
 Fax: +1 925 557 4101
 info@meditec.zeiss.com
 www.meditec.zeiss.com