



## CIRRUS HD-OCT

Certainty at the speed of CIRRUS

Introducing  
**FastTrac™**  
and NEW  
CIRRUS models!

**ZEISS**

We make it visible.



The moment a subtle change in pathology  
becomes a turning point in care.

**This is the moment we work for.**

// CIRRUS  
MADE BY CARL ZEISS

**Build your success.**

**Elevate your effectiveness.**

**Performance at the speed of CIRRUS.**

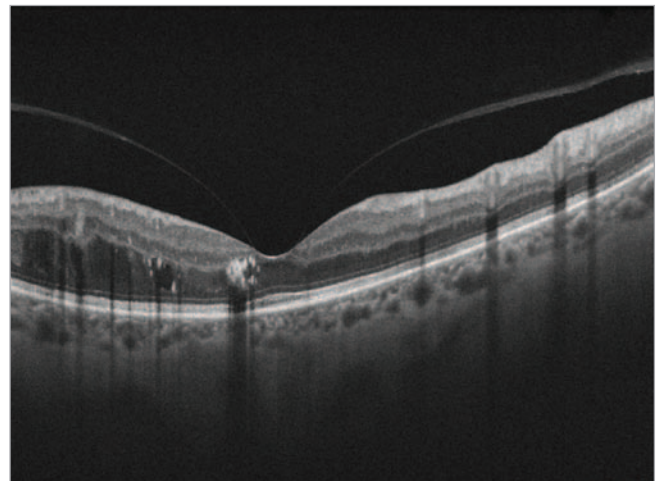
Rapid development over the last 10 years has made eye care more complex, comprehensive and challenging than ever before.

Powerful changes in demographics and trends in eye care are putting unprecedented demands on practices to keep pace, perform at the highest level and deliver better outcomes faster, to more and more patients.

The CIRRUS HD-OCT 5000 and 500 enable eye care practices of all types to stay ahead of current and future challenges without compromise. CIRRUS delivers a carefully constructed set of sophisticated clinical applications that build one upon another to address rapidly-evolving requirements for diagnostics and disease management in retina, glaucoma and anterior segment populations. From broad comprehensive to advanced subspecialty practice, there's a CIRRUS designed for you.

Begin with a foundation of data and insight

The Carl Zeiss heritage of brilliant optics pervades all aspects of the CIRRUS experience, providing visualizations that are at once informative and inspiring as you view targeted tissue from multiple perspectives. In just seconds, CIRRUS creates a tightly-layered, insight-rich, multi-dimensional cube of data that allows you to visualize and analyze the vital dynamics of each patient's changing condition.



<b>Cube Scan Pattern</b>	<b>Total Data Points</b>	<b>Spacing Between Lines</b>
512 x 128	>67 million	47µm
200 x 200	>40 million	30µm



## Clinical decisions at the speed of CIRRUS

### Data is only the beginning

More than a single tool, CIRRUS delivers both exceptional visualization and precise measurement applications, each one a necessary building block in generating efficient, effective outcomes for your patients. Ultimately, the CIRRUS HD-OCT 5000 and 500 allow you to discover, track and analyze single pathological events from multiple points of view for greater CERTAINTY regarding your next important step in treatment.

### Brilliant visualizations

#### **Examine Retinal Details**

Selective Pixel Profiling™ optimizes each illumination point in the 20 X HD Raster Scan, ensuring detail-rich visualizations that spotlight critical pathological elements.

#### **Gain Deeper Insight**

New Enhanced Depth Imaging focuses the signal lower in the scan window for assessment of the deeper choroidal tissue.

#### **Visualize Change**

New FastTrac™ on the CIRRUS HD-OCT 5000 precisely targets and captures the same tissue every time to ensure consistent comparison.

### Insightful analyses

#### **Reproducible Analyses**

ZEISS proprietary algorithms measure and display layers for unsurpassed tissue targeting, segmentation, and reproducible measurements.

#### **Comparative References**

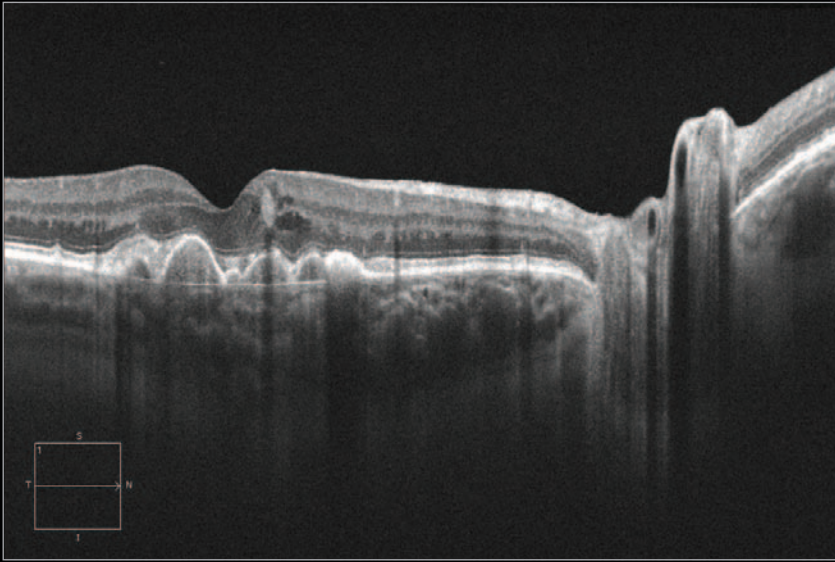
Diversified normative databases of ONH, RNFL, ganglion cell/IRL, and macular thickness facilitate at-a-glance identification of anatomy outside normal limits.

#### **Change Measurements**

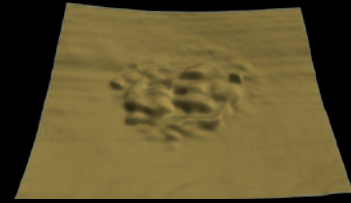
All CIRRUS data cubes are automatically registered with historical data, allowing for point-to-point measurements of change.



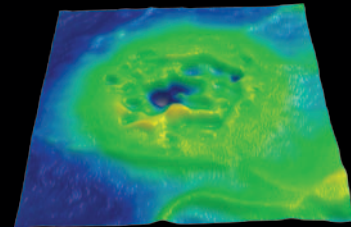
## Age-Related Macular Degeneration



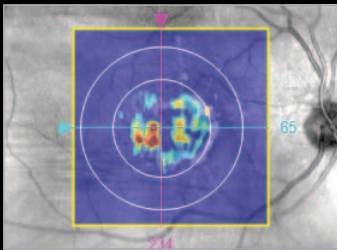
HD Raster



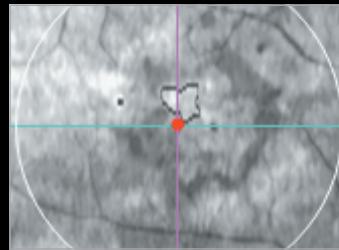
RPE Segmentation Map



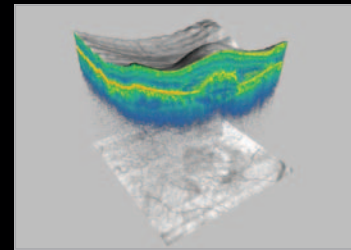
Macular Thickness Map



RPE Elevation Map

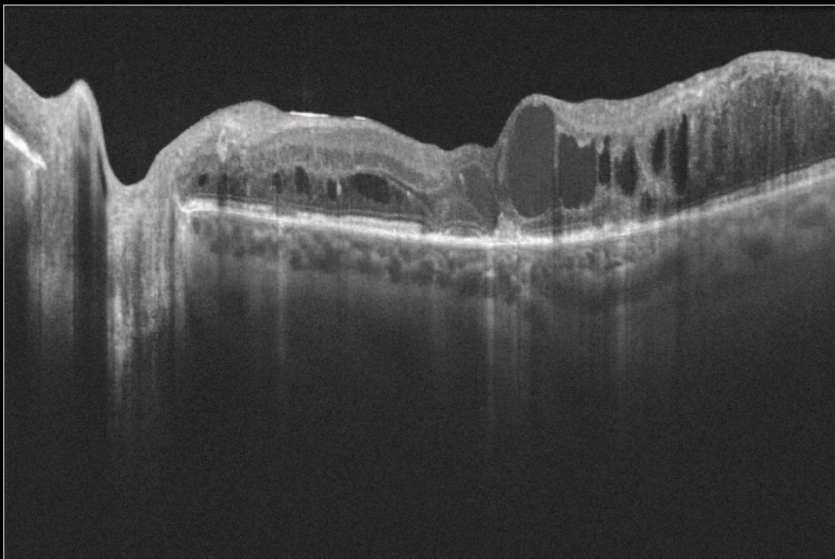


Sub-RPE Illumination Map

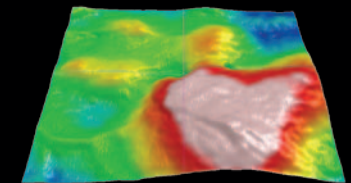


3D Visualization

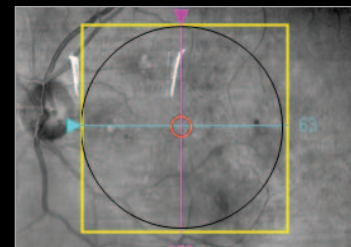
## Diabetic Retinopathy



HD Raster

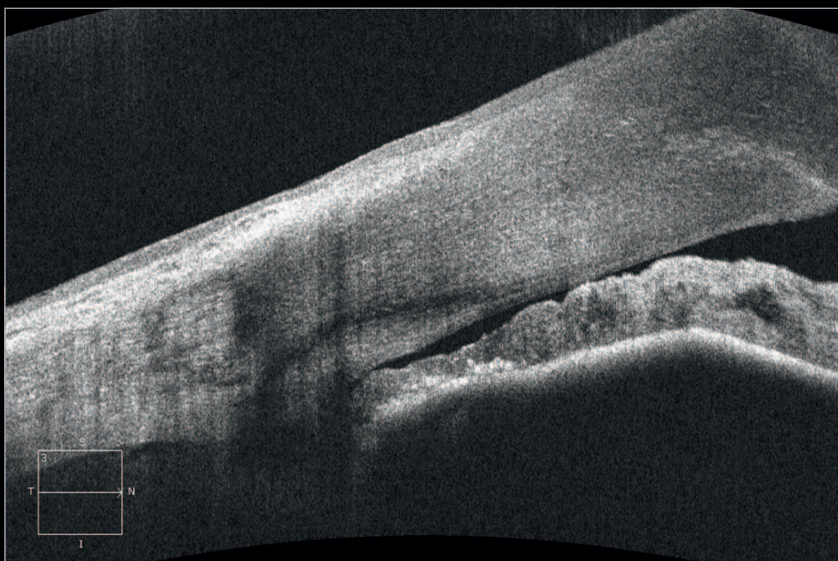


Macular Thickness Map

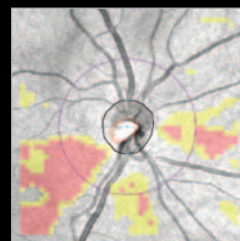


LSO Fundus Image with Raster Line

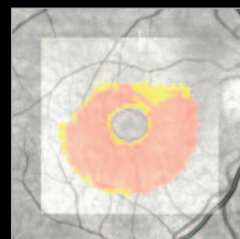
## Glaucoma



HD 5 Line Raster

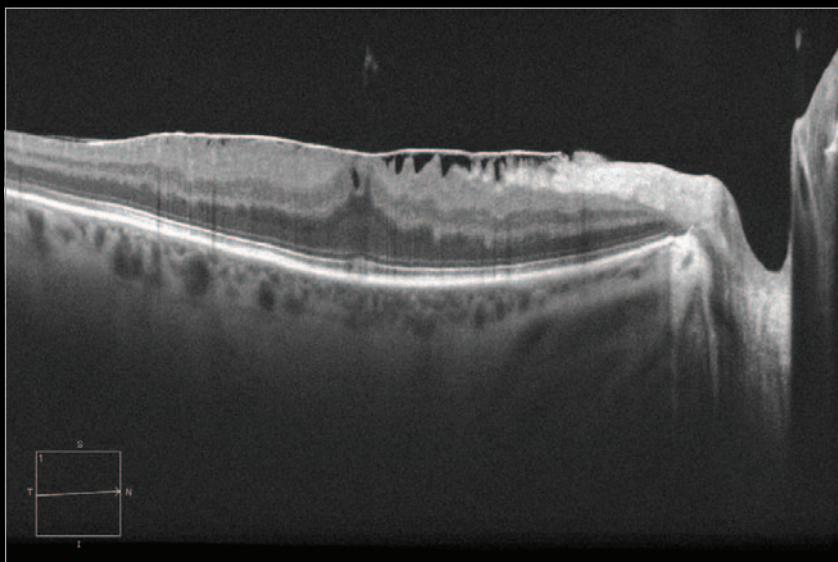


RNFL Layer Deviation Map

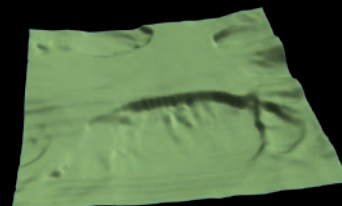


Ganglion Cell + IP Layer Map

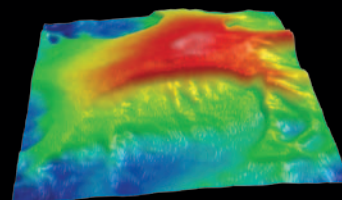
## Epiretinal Membrane



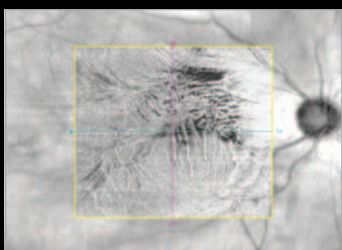
HD Raster



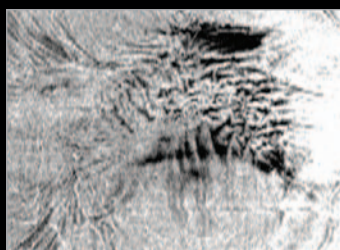
ILM Segmentation Map



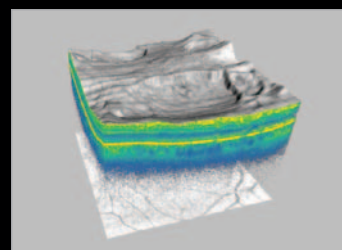
Macular Thickness Map



LSO Fundus Image with ILM Slab



Advanced Visualization™ with ILM Slab



3D Visualization



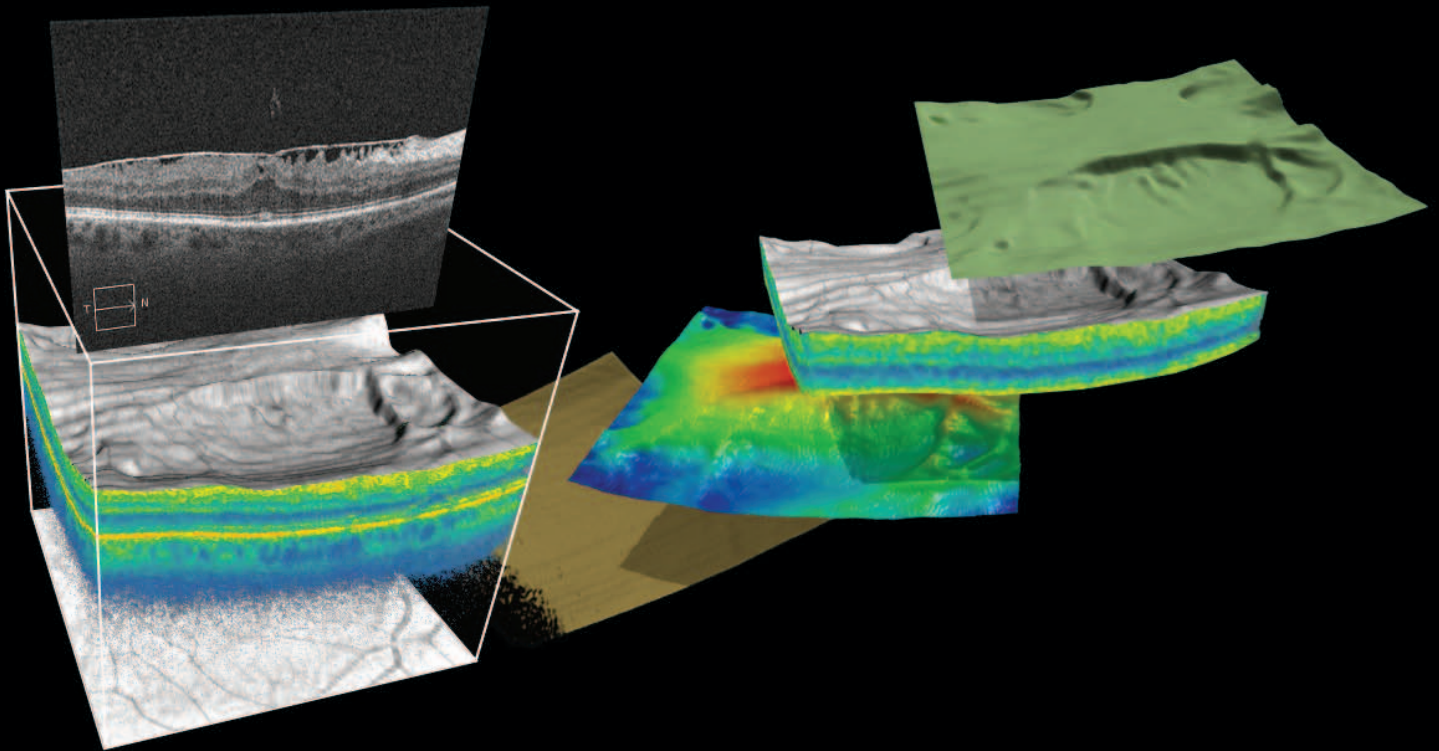
# One pathology. Multiple views. Superior efficiency.

Analyzing a single pathology from multiple views provides comprehensive insight and analysis of the clinical situation. By providing multiple spacial views alongside time-based historic data and normative data comparisons, CIRRUS goes beyond 3-dimensional analysis for greater CERTAINTY in your decision-making.

Visualization at the speed of CIRRUS

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Discover the power of the CIRRUS Cube.



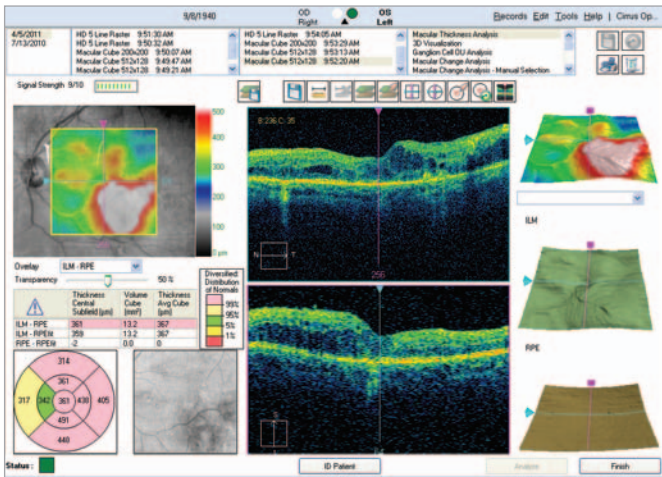
# // RETINA DIAGNOSTICS

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## Sophisticated applications for effective AND efficient retinal assessment

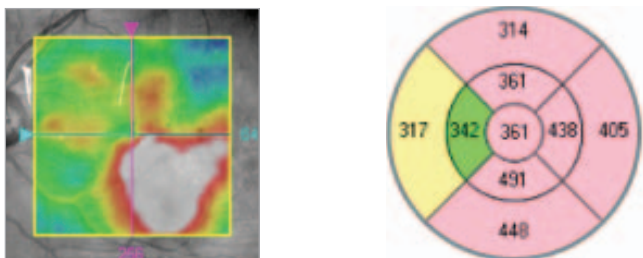
Accuracy at the speed of CIRRUS

New treatments and techniques are focusing attention in the retina like never before. Today, every eye care professional needs to accurately and efficiently evaluate retinal status. CIRRUS has numerous tools that work together to deliver a comprehensive assessment of your patient’s retinal condition.



### Superior segmentation

Reveal layer by layer pathophysiology to aid your expert diagnosis.

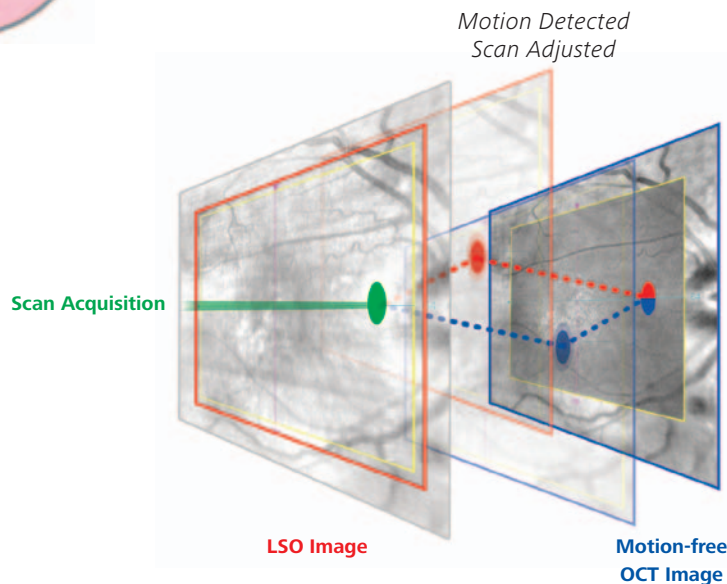


### Precision FoveaFinder™

CIRRUS automatically and precisely locates the fovea and centers the ETDRS grid for accurate comparison to normal values.

### NEW FastTrac™ retinal tracking system

NEW FastTrac reduces eye motion artifacts without sacrificing patient throughput with a proprietary scan acquisition strategy, high speed 20 Hz LSO camera, and single-pass alignment scanning.





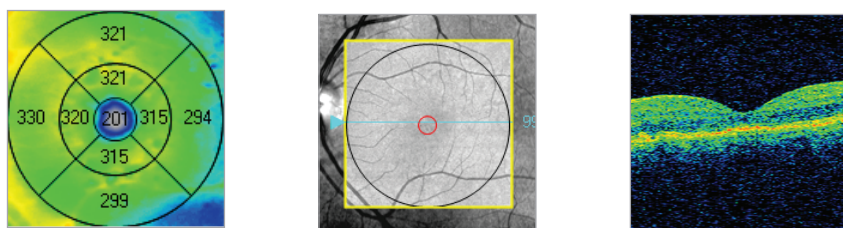
## Tracking change at the speed of CIRRUS

The CIRRUS data cube automatically stores and delivers each patient's historical data to provide a variety of change assessments, including change maps that help you understand your patient's response to treatment.

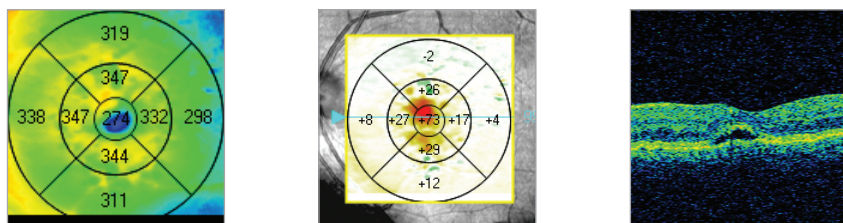
### Measure and visualize macular change

Because every CIRRUS cube is registered to prior visits, you can measure point-to-point changes in macular thickness. Visualize change at any point in the cube with synchronized b-scan fly-through.

Visit 1

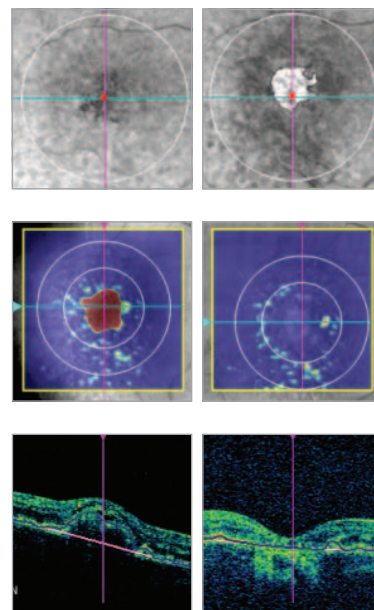


Visit 2



### Advanced RPE analysis

New applications allow you to identify and measure RPE disruption associated with drusen, and geographic atrophy. Track area and volume changes and assessment over time.

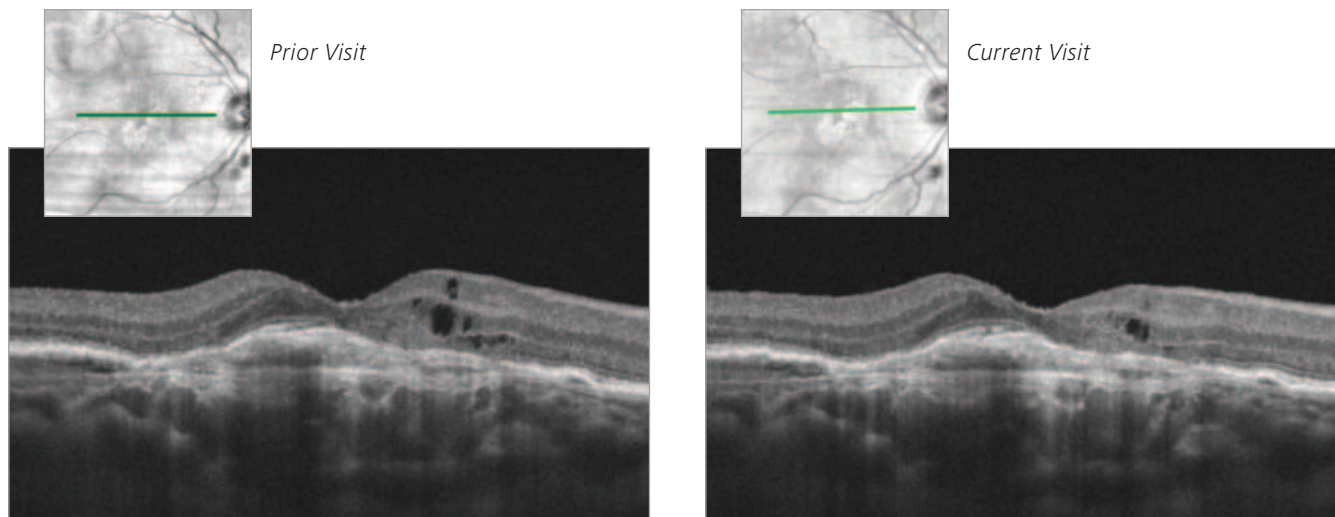


Visit 1

Visit 2

### FastTrac™

With FastTrac, scan at highest resolution at the same location at each visit.



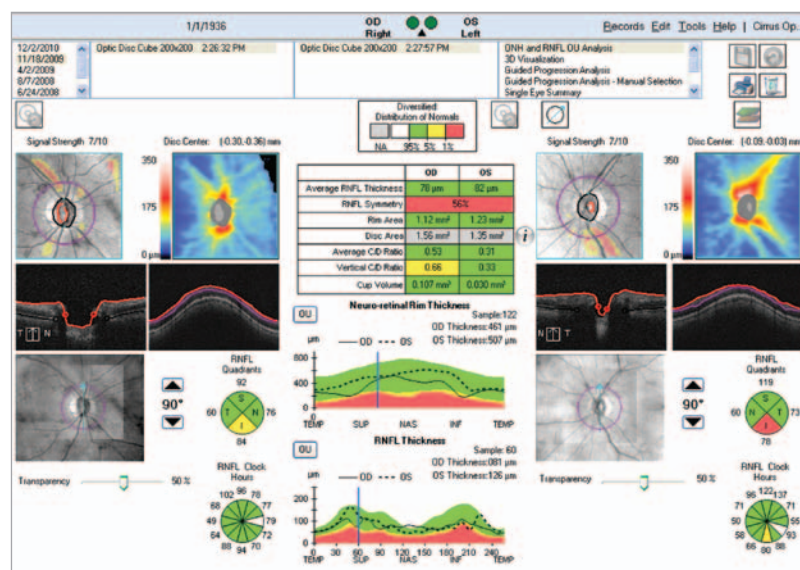
# // GLAUCOMA MANAGEMENT

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## Premier tools for comprehensive glaucoma management

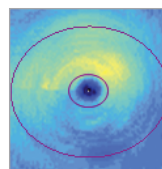
### Assessment at the speed of CIRRUS

CIRRUS provides a comprehensive suite of diagnostic tools that work in concert to enable you to capture and assess the defects and patterns of loss that characterize typical disease progression. Single and combined reports simplify your evaluation process for more rapid decision-making.

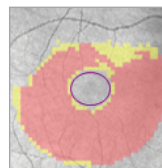


### Ganglion Cell Analysis

New CIRRUS applications expand your glaucoma tools. Ganglion cell analysis lets you check for early change in the macula that may not be present in the disc region.



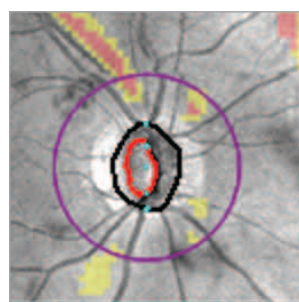
The ganglion cell thickness measurements are automatically centered using FoveaFinder™.



Measurements are compared to normative data in superpixel Deviation Maps.

### Superior analysis

With high-density cube data and proven segmentation, CIRRUS delivers a diagnostic analysis you can trust for glaucoma assessment.



### AutoCenter™

After the scan is acquired, CIRRUS automatically centers the measurement circle around the disc. The placement is not operator-dependent.

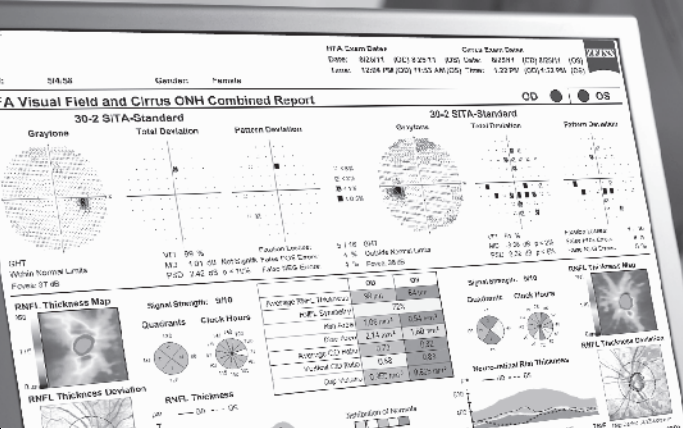
### Beyond the circle

See past circle-based assessments to visualize RNFL damage across the entire peripapillary in the superpixel Deviation Map.

### Optic Nerve Head and RNFL Analysis

Proprietary ZEISS algorithms precisely measure the RNFL thickness and disc parameters including neuroretinal rim while accounting for tilted discs, disruptions to the RPE and other challenging pathologies.





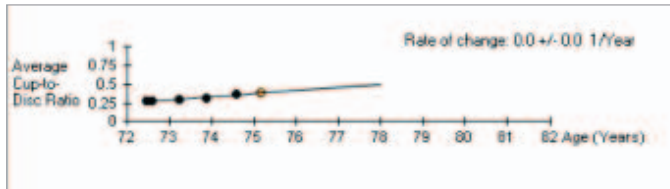
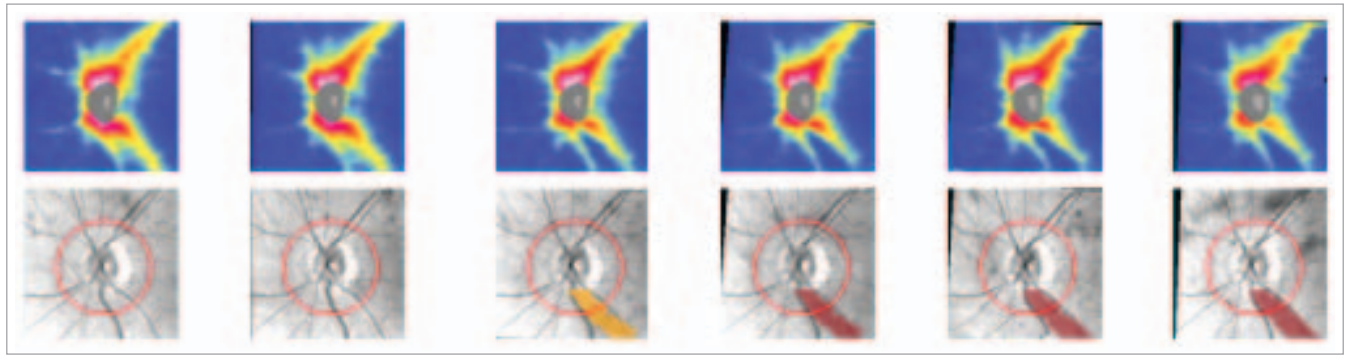
The HFA-Cirrus Combined Report, available exclusively with ZEISS FORUM®, summarizes patient structure and function information in a single display.

## Manage at the speed of CIRRUS

Understanding the progression of glaucoma is central to managing the disease. CIRRUS HD-OCT GPA™ progression reports let you access and analyze the patient’s complete history in a single view so you can identify trends for more confident patient management.

### Guided Progression Analysis (GPA™)

Easy to read graphics allow you to monitor trends and identify location of changes.



Track and compare RNFL thickness and ONH measurements over time to determine if significant change has occurred.

The interface shows a summary for the left eye (OS) with the following options checked:

- RNFL Thickness Map Progression
- RNFL Thickness Profiles Progression
- Average RNFL Thickness Progression
- Average Cup-to-Disc Progression

Legend for Average Cup-to-Disc Progression:
 

- Possible loss (Red)
- Little loss (Yellow)
- Possible increase (Green)

 Buttons: Analyze, Finish

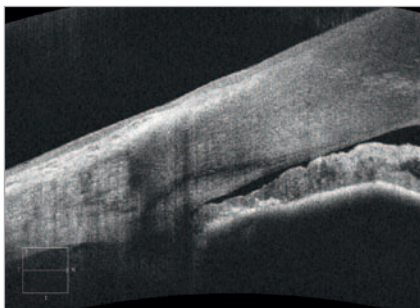
Summary Checkboxes highlight parameters that may show significant change in easy to understand language consistent with HFA™ GPA reports.

# // ANTERIOR SEGMENT IMAGING MADE BY CARL ZEISS

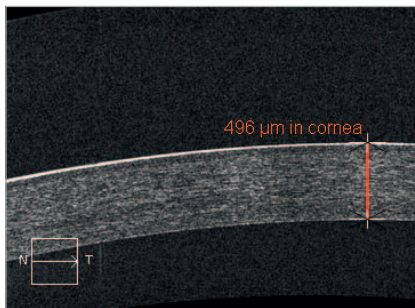
## Expand your diagnostic capabilities

Insight at the speed of CIRRUS

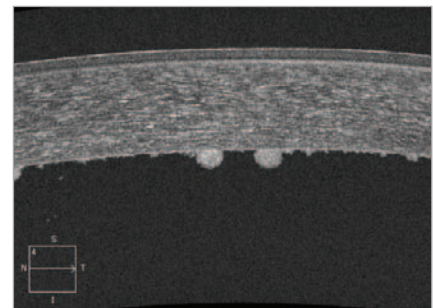
CIRRUS offers anterior segment imaging of the angle and cornea and the ability to measure central cornea thickness.



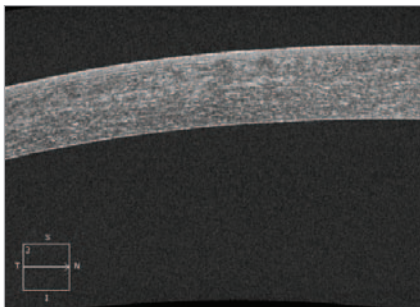
*Narrow Angle Visualization*



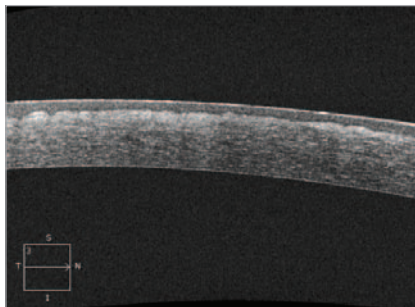
*Central Corneal Thickness Measurement*



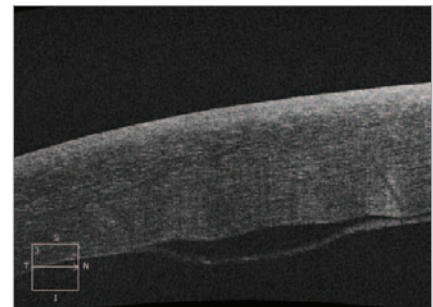
*Keratic Precipitates*



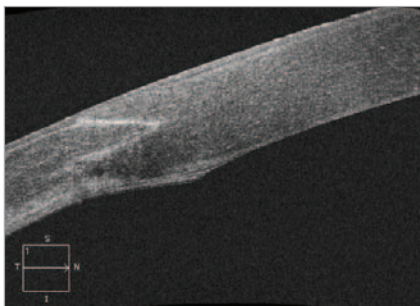
*Microstriae*



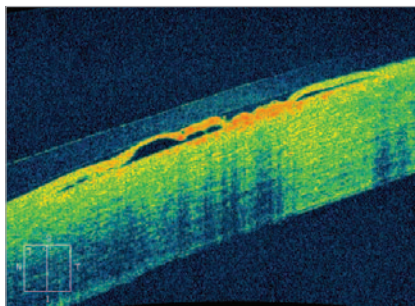
*PRK Scar*



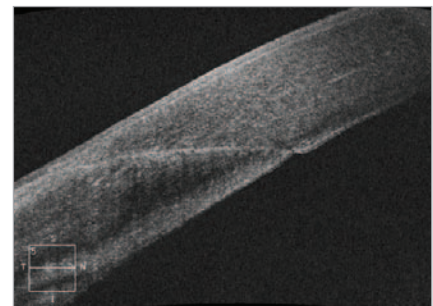
*Descemet Detachment*



*IEK Zigzag*



*Bullous Keratopathy with BCL*



*Cataract Incision*



# **The CIRRUS legacy. The CIRRUS promise. The CIRRUS HD-OCT.**

Years ago, Carl Zeiss defined OCT with capabilities and applications that launched a new era in eye care. Now, Carl Zeiss is doing it again with the CIRRUS HD-OCT 5000 and 500: foundational technologies that address the needs and challenges of today's eye care practices.

## **CIRRUS and FORUM:**

Improved workflow and efficiency

Today, the pace of change is breathtaking, placing unprecedented demands on every eye care practice. Clinical data management and integration is crucial. Clarity of information and insight essential. CIRRUS is designed for today's more efficient, electronic workplace, bringing the results to you - in the exam lane, your office, or laptop. CIRRUS seamlessly integrates with EMRs and also with ZEISS FORUM®, the advanced data management solution for simplifying, centralizing, and viewing vast amounts of clinical data from ophthalmic instruments.

## **Carl Zeiss Customer Care:**

Your partner for success

It takes a special partner to support you and your practice to meet today's challenges. One that delivers support and services that you can rely upon when you need it most. The ideal partner for an era when just keeping up is not enough. Today is about staying ahead.

**Your local contact:**

**Argentina**

Carl Zeiss Argentina S.A.  
Calle Nahuel Huapi 4015 / 25  
C1430 BCO Buenos Aires  
Argentina  
Phone: +54 11 45 45 66 61  
bruzzi@zeiss.com.ar

**Australia**

Carl Zeiss Pty Ltd  
Tenancy Office 4, Level 1  
40-52 Talavera Road  
North Ryde NSW 2113  
Australia  
Phone: +61 2 9020 1333  
med@zeiss.com

**Austria**

Carl Zeiss GmbH  
Laxenburger Str. 2  
1100 Vienna  
Austria  
Phone: +43 1 79 51 80  
austria@zeiss.org

**Belgium**

Carl Zeiss NV-SA  
Ikaroslaan 49  
1930 Zaventem  
Belgium  
Phone: +32 2 719 39 11  
info@zeiss.be

**Brazil**

Carl Zeiss do Brasil Ltda.  
Av. Nações Unidas, 21711  
CEP04795-100 São Paulo  
Brazil  
Phone: +55 11 5693 5521  
medbrasil@zeiss.org

**Canada**

Carl Zeiss Canada Ltd.  
45 Valleybrook Drive  
Toronto, ON M3B 2S6  
Canada  
Phone: +1 800 387 8037  
czcmed@zeiss.com

**China**

Carl Zeiss Shanghai Co. Ltd.  
1/f., Ke Yuan Building  
11 Ri Yin Nan Road  
Waigaoqiao Free Trade Zone  
2005 Yang Gao Bei Road  
Shanghai 200131  
China  
Phone: +86 21 5048 17 17  
sro@zeiss.com.cn

**Czech Republic**

Carl Zeiss spol. s.r.o.  
Radlická 14/3201  
150 00 Prague 5  
Czech Republic  
Phone: +420 233 101 221  
zeiss@zeiss.cz

**France**

Carl Zeiss Meditec France SAS  
60, route de Sartrouville  
78230 Le Pecq  
France  
Phone: +33 1 34 80 21 00  
med@zeiss.fr

**Germany**

Carl Zeiss Meditec VG mbH  
Carl-Zeiss-Strasse 22  
73447 Oberkochen  
Germany  
Phone: +49 7364 20 6000  
vertrieb@meditec.zeiss.com  
Surgical Ophthalmology:  
Phone: +49 800 470 50 30  
iol.order@meditec.zeiss.com

**Hong Kong**

Carl Zeiss Far East Co. Ltd.  
Units 11-12, 25/F  
Tower 2, Ever Gain Plaza  
No. 88 Container Port Road  
Kwai Chung  
Hong Kong  
Phone: +852 2332 0402  
czfe@zeiss.com.hk

**India**

Carl Zeiss India Pvt. Ltd.  
Plot No.3, Jigani Link Road  
Bommasandra Industrial Area  
Bangalore - 560 099  
India  
Phone: +91 80 4343 8000  
info@zeiss.co.in

**Italy**

Carl Zeiss S.p.A.  
Viale delle Industrie 20  
20020 Arese (Milan)  
Italy  
Phone: +39 02 93773 1  
infomed@zeiss.it

**Japan**

Carl Zeiss Meditec Japan Co. Ltd.  
Shinjuku Ku  
Tokyo 160-0003  
22 Honchio-Cho  
Japan  
Ophthalmic instruments:  
Phone: +81 3 33 55 0331  
medsales@zeiss.co.jp  
Surgical instruments:  
Phone: +81 3 33 55 0341  
cmskoho@zeiss.co.jp

**Malaysia**

Carl Zeiss Sdn Bhd.  
Lot2, Jalan 243/51 A  
46100 Petaling Jaya  
Selangor Darul Ehsan  
Malaysia  
Phone: +60 3 7877 50 58  
malaysia@zeiss.com.sg

**Mexico**

Carl Zeiss de México S.A. de C.V.  
Avenida Miguel Angel de Quevedo 496  
04010 Mexico City  
Mexico  
Phone: +52 55 59 99 0200  
cz-mexico@zeiss.org

**Netherlands**

Carl Zeiss B.V.  
Trapezium 300  
Postbus 310  
3364 DL Sliedrecht  
Netherlands  
Phone: +31 184 43 34 00  
info@zeiss.nl

**New Zealand**

Carl Zeiss (N.Z.) Ltd.  
15B Paramount Drive  
P.O. Box 121 - 1001  
Henderson, Auckland 0650  
New Zealand  
Phone: +64 9 838 5626  
med@zeiss.com

**Poland**

Carl Zeiss sp. z o.o.  
ul. Lopuszanska 32  
02-220 Warsaw  
Poland  
Phone: +48 22 858 2343  
medycyna@zeiss.pl

**Singapore**

Carl Zeiss Ptd. Ltd.  
50 Kaki Bukit Place  
Singapore 415926  
Singapore  
Phone: +65 6741 9600  
info@zeiss.com.sg

**South Africa**

Carl Zeiss (Pty.) Ltd.  
363 Oak Avenue  
Ferndale  
Randburg 2194  
South Africa  
Phone: +27 11 886 9510  
info@zeiss.co.za

**South Korea**

Carl Zeiss Co. Ltd.  
Seoul 121-828  
Mapo-gu  
141-1, Sangsu-dong  
2F, BR Elitel Bldg.  
South Korea  
Phone: +82 2 3140 2600  
korea@zeiss.co.kr

**Spain**

Carl Zeiss Meditec Iberia S.A.U.  
Ronda de Poniente, 15  
Tres Cantos  
28760 Madrid  
Spain  
Phone: +34 91 203 37 00  
info@zeiss.es

**Sweden**

Carl Zeiss AB  
Tegeluddsvaegen 76  
10254 Stockholm  
Sweden  
Phone: +46 84 59 25 00  
info@zeiss.se

**Switzerland**

Carl Zeiss AG  
Feldbachstrasse 81  
8714 Feldbach  
Switzerland  
Phone: +41 55 254 7534  
info@zeiss.ch

**Thailand**

Carl Zeiss Thailand  
90 CyberWorld Tower A,  
36<sup>th</sup> Floor, Unit A 3601  
230 Ratchadapisek Road  
Huaykwang, Bangkok 10310  
Thailand  
Phone: +66 2 248 8787  
thailand@zeiss.com.sg

**United Kingdom**

Carl Zeiss Ltd.  
15-20 Woodfield Road  
Welwyn Garden City  
Hertfordshire, AL7 1JQ  
United Kingdom  
Phone: +44 1707 871200  
info@zeiss.co.uk



**Carl Zeiss Meditec, Inc.**

5160 Hacienda Drive  
Dublin, CA 94568  
USA  
www.meditec.zeiss.com/CIRRUS



**Carl Zeiss Meditec AG**

Goeschwitzer Str. 51-52  
07745 Jena  
Germany  
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