

Make every scan count with high-performance OCT.



ZEISS CIRRUS 6000

www.zeiss.com/cirrus6000



Seeing beyond



High-Performance OCT

Advance your fast-paced practice

CIRRUS® 6000, the next-generation OCT from ZEISS, delivers high-speed image capture with HD imaging detail and a wider field of view, so you can make more informed decisions and spend more time with your patients.

Performance OCT

Faster imaging with greater detail, at 100,000 scans per second, for improved patient care.

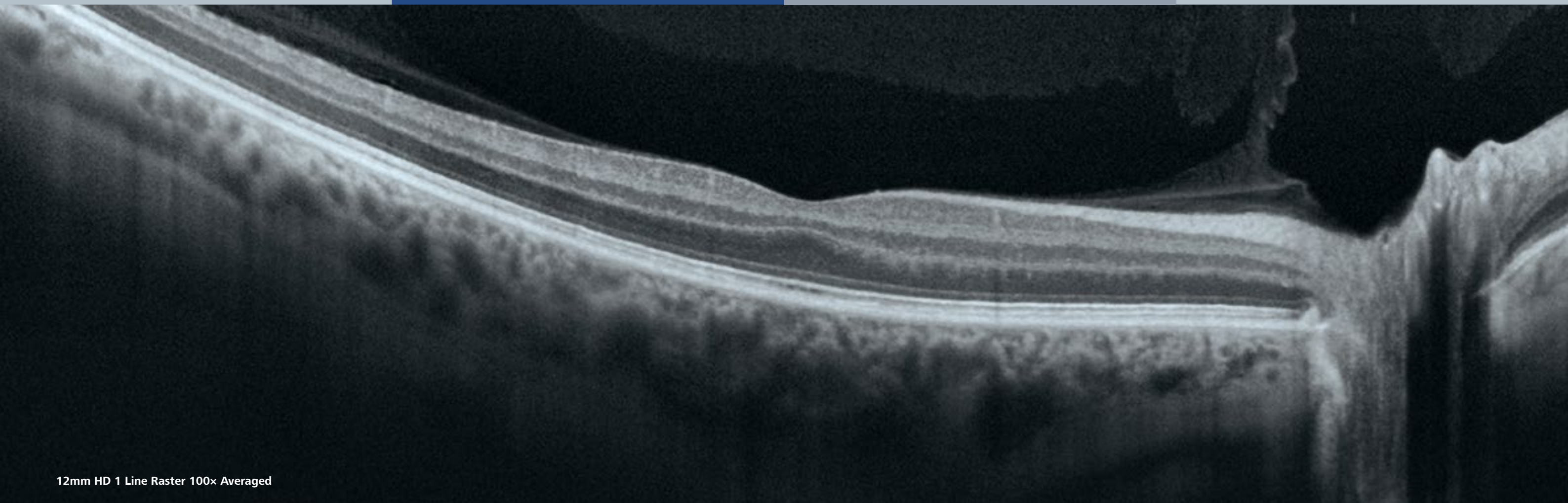
Proven analytics

Comprehensive, clinically validated tools to diagnose and manage a range of ophthalmic conditions. Whether at rest or in transit, your

Patient-first design

Enhanced security and seamless transfer of raw patient data from previous generations of CIRRUS for continuity of patient care.





12mm HD 1 Line Raster 100x Averaged

The power of 100,000 scans per second

Faster imaging:

Reduce chair time and speed up your practice.

- 270% faster OCT scans and 43% faster OCTA scans.*
- OCT cube scans in as little as 0.4 seconds.
- High-speed imaging in combination with FastTrac™ eye tracking technology reduces the chance of motion artifacts such as those caused by blinks and saccades.

Greater detail:

See deeper instantly, with high-definition widefield imaging.

- 12x12 mm single-shot OCTA cube scan in addition to 8x8, 6x6 and 3x3 mm scans.
- High-Definition AngioPlex scans (8x8 and 6x6 mm) for even greater microvascular detail without limiting the field of view.
- 2.9 mm scan depth.

“The CIRRUS 6000 is all about its speed. With **increased speed** comes greatly **improved resolution** and detail on cube, raster and OCTA scans. The new faster CIRRUS enables me to incorporate these more reliable scans into my daily workflow and make **important treatment decisions** for my patients.”

Theodore Leng, MD, FACS,
Byers Eye Institute at Stanford Healthcare, Palo Alto, CA, United States

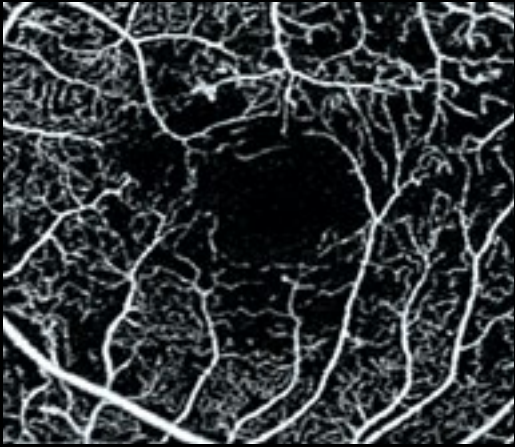
* Compared to prior generations of CIRRUS.



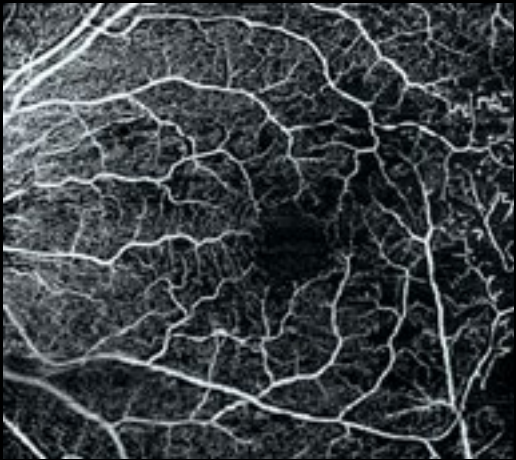
12x12 mm single-shot OCTA of branch retinal vein occlusion (BRVO).
Image courtesy of Jesse Jung, MD, East Bay Retina, United States

Performance OCT — faster, wider, with a new level of detail

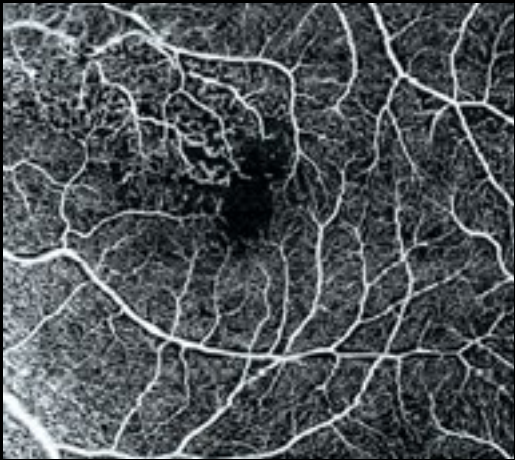
ZEISS CIRRUS 6000 empowers clinicians with a larger field of view in a single scan, and captures high-definition OCT/OCTA scans that reveal finer details of the retinal microvasculature – all of which provides more insight into the patient’s condition in less time.



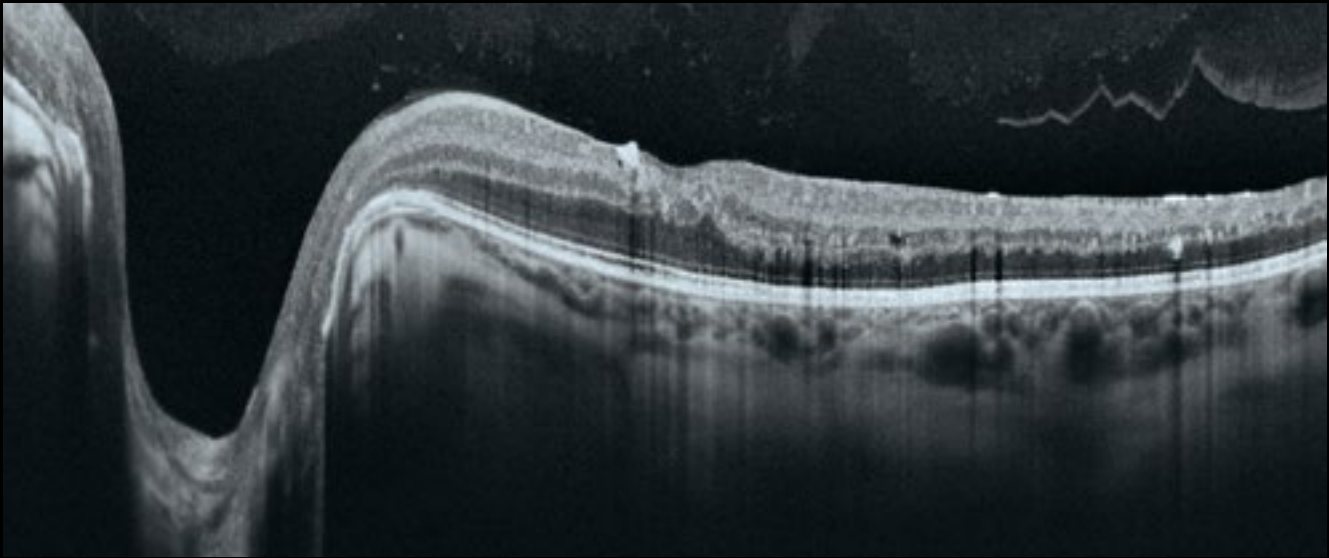
3x3 mm AngioPlex OCTA of proliferative diabetic retinopathy (PDR). *Image courtesy of Roger Goldberg, MD, Bay Area Retina Associates, United States*



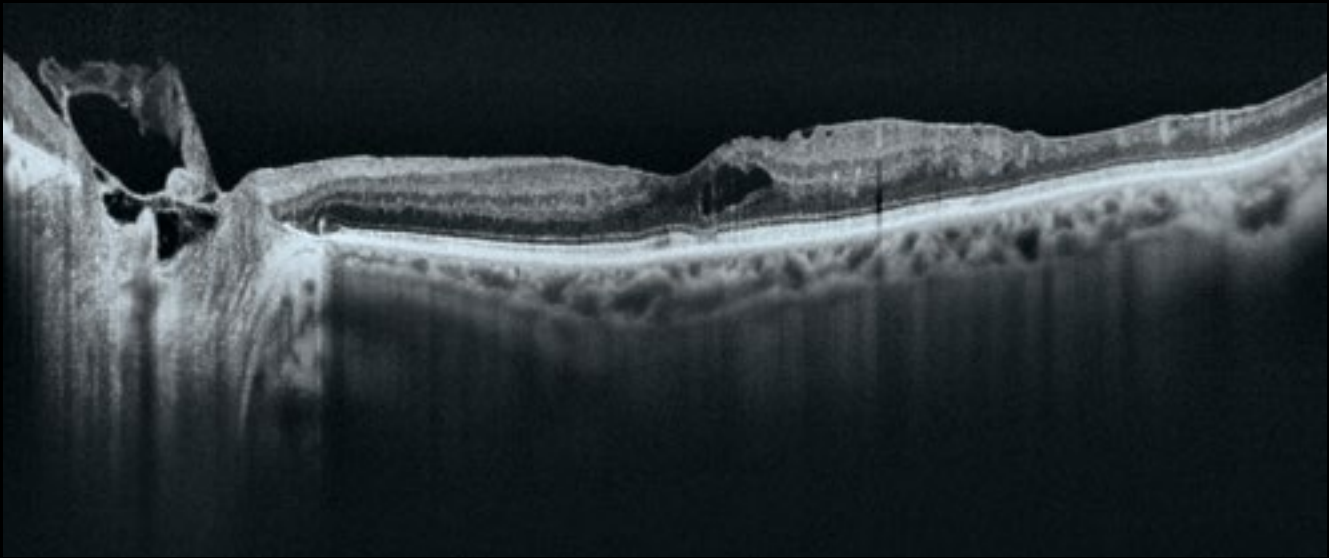
8x8 mm HD AngioPlex OCTA of BRVO.
Image courtesy of Roger Goldberg, MD, Bay Area Retina Associates, United States



6x6 mm HD AngioPlex OCTA of non-proliferative diabetic retinopathy (NPDR). *Image courtesy of Roger Goldberg, MD, Bay Area Retina Associates, United States*



12 mm HD 1 Line Raster 100x averaged. *Image courtesy of Theodore Leng, MD, Byers Eye Institute, United States*



12 mm HD 1 Line Raster 100x averaged. *Image courtesy of Theodore Leng, MD, Byers Eye Institute, United States*

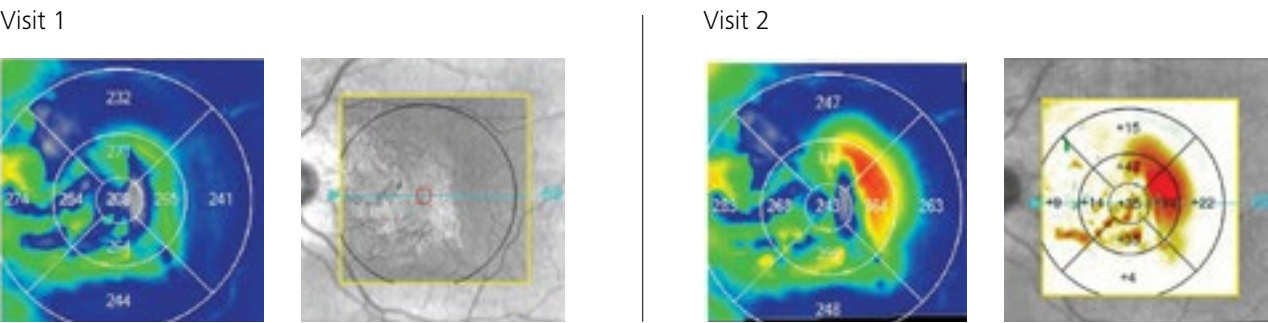


Proven analytics

CIRRUS-powered treatment decisions

As the pioneering OCT technology, the CIRRUS platform offers clinicians extensive, clinically validated applications for retina, glaucoma and anterior segment. The result: precise analysis, faster throughput and smarter decision-making across a wide spectrum of clinical conditions and patient types.

Retina

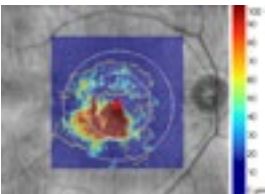


Macular Change Analysis

The CIRRUS data cube automatically stores and delivers each patient’s historical data to provide a variety of change assessments, including macular thickness change maps that help you understand your patient’s response to treatment. Because every CIRRUS cube is tracked and registered to OCT scans from prior visits using CIRRUS’ FastTrac™ Retinal Tracking Technology, you can confidently measure point-to-point changes in macular thickness.

Advanced RPE Analysis

Assess the integrity of and potential changes to the RPE layer in patients with age-related macular degeneration (AMD).



RPE elevations

If the RPE is raised above a baseline plane, a proprietary algorithm for CIRRUS maps and measures the area and volume of the elevations.

Sub-RPE illumination

If the RPE is absent or has lost integrity, the OCT beam penetrates into the choroid. A proprietary algorithm for CIRRUS can determine when this occurs, CIRRUS then maps and measures the affected area.

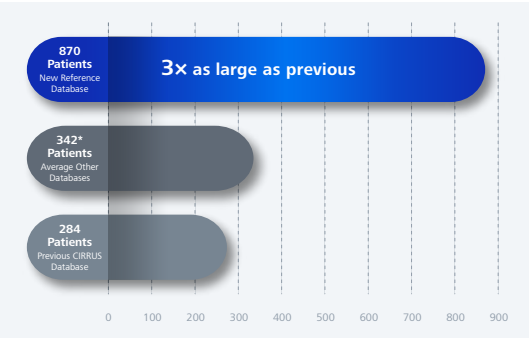
RPE Elevations	Prior	Current	Difference	Change
Area in 3 mm Circle (mm²)	3.2	4.3	1.1	34.4%
Area in 5 mm Circle (mm²)	6.3	8.1	1.8	28.6%
Volume in 3 mm Circle (mm³)	0.23	0.39	0.16	69.6%
Volume in 5 mm Circle (mm³)	0.35	0.58	0.23	65.7%

Sub-RPE Illumination	Prior	Current	Difference	Change
Area in 3 mm Circle (mm²)	13.1	7.6	-5.5	-42.0%
Area in 5 mm Circle (mm²)	0.1	0.5	0.4	400.0%

Expanded Reference Database

ONH, RNFL and macular thickness

The continually advancing ZEISS CIRRUS reference database now includes 870 patients, more than triple that of previous versions, and with greater diversity, taking into account different optic disc sizes in addition to age. Comparing macular thickness, ganglion cell thickness, optic disc and RNFL measurements to a reference range for healthy eyes 18 to 88+ years, interpolated from quantile regressions using additional statistical models.



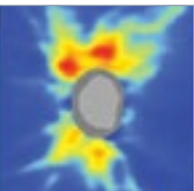
*Average values calculated from publicly available statistics as of April 2024.

Glaucoma

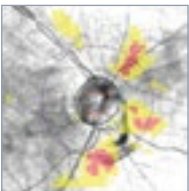
The CIRRUS suite of glaucoma analysis tools are designed to help you better visualize, detect, and manage all stages of glaucoma, from glaucoma suspects and mild glaucoma to severe glaucoma.

CIRRUS RNFL thickness deviation maps

have been shown to be superior for detecting localized RNFL defects, compared to traditional peripapillary RNFL thickness measurements.



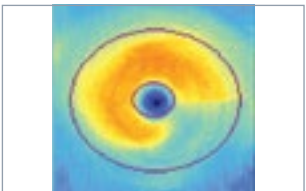
RNFL Thickness Analysis



RNFL Deviation Map

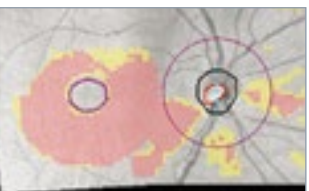
Ganglion Cell Analysis

helps identify macular glaucomatous damage, which can be missed with RNFL analysis alone.

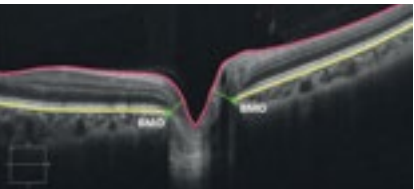


Combined GCL/IPL and RNFL thickness deviation maps

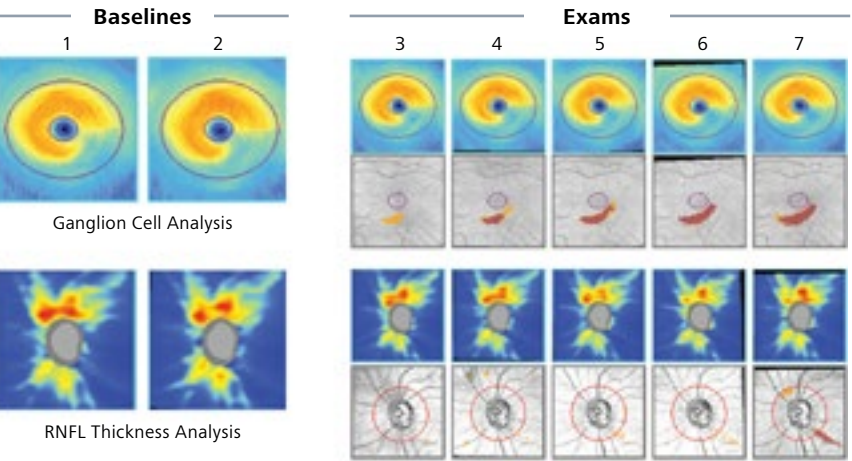
provide a comprehensive widefield assessment.



Combined GCA and RNFL Deviation Map



AutoCenter™ – ZEISS’ patented algorithm automatically identifies the optic nerve head using Bruch’s Membrane Opening (BMO) in 3-dimensions for more precise measurement of the neuro-retinal rim, accounting for tilted discs, disruptions to the RPE and other challenging pathology.



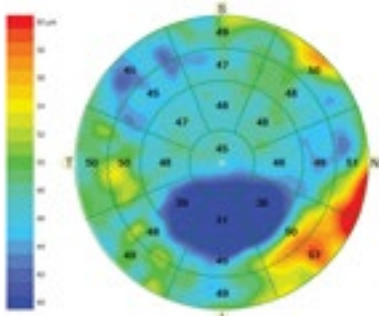
Unique to ZEISS, Guided Progression Analysis™ (GPA™) provides both trend and event-based analyses that determine if change has occurred that exceeds test-retest variability and quantify rate of change for key RNFL, ONH, and GCL/IPL parameters.



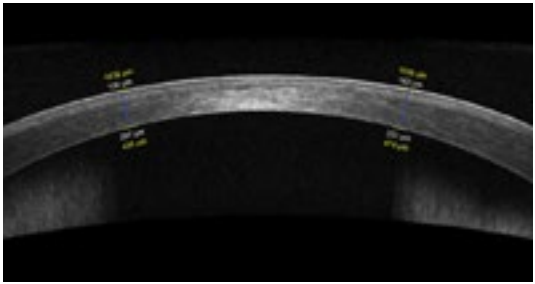
Anterior Segment

Anterior Segment Premier Module

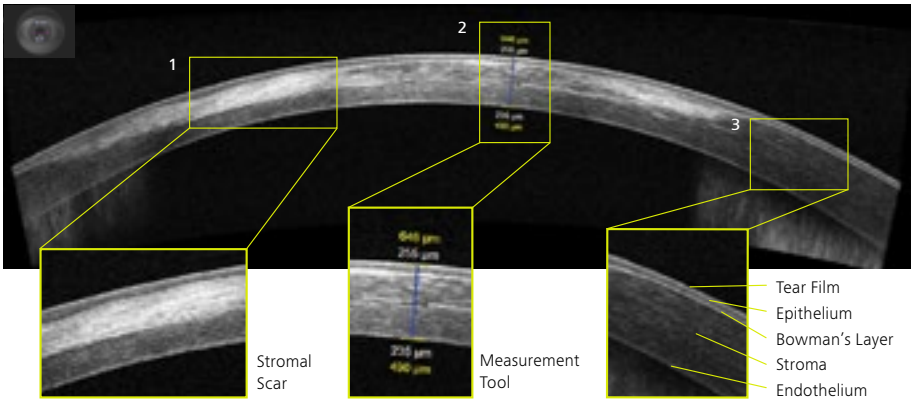
ZEISS CIRRUS also enables comprehensive imaging and quantification of the anterior segment for refractive surgery planning and follow-up, corneal evaluation and glaucoma assessment.



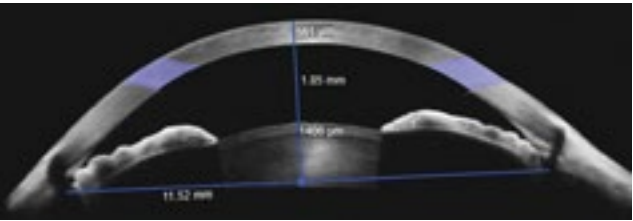
9 mm epithelial thickness map of keratoconus highlights localized epithelial thinning.



9 mm high-definition cornea imaging with semi-automated measurement tools for flap thickness and residual stromal bed.

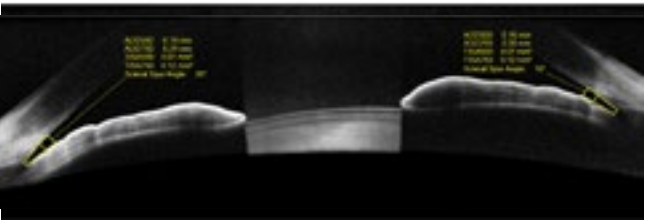


ChamberView — A patented 15.5 mm wide view of the entire anterior chamber with objective tools for measuring anterior segment ocular structures.



ChamberView image of narrow angles

Wide Angle to Angle Scan - Provides exquisite detail of the iridocorneal angle and includes measurement tools for Angle Opening Distance (AOD500/750) and Trabecular Iris Space Area (TISA500/750) to quantify and track degree of angle closure.



Wide Angle to Angle Scan of Narrow Angles



Patient-first design

Unique platform designed for the future

With ZEISS CIRRUS, your patient data is secure, protected against cyber threats and never left behind. The CIRRUS platform ensures the seamless review of legacy OCT data combined with other diagnostic modalities to further enhance your patient’s care. That means that even as OCT technology advances, your clinicians maintain continuity of patient care.

Enhanced cybersecurity

New enhanced cybersecurity features are designed to meet ever-evolving compliance and security needs. For the large institution IT requirements of today and tomorrow, ZEISS CIRRUS offers features such as enhanced password security, enterprise-scale security requirements and more.

- Whether at rest or in transit, your CIRRUS data is secured via data encryption and DICOM Transport Layer Secure (TLS) protocol.
- New InterBase ultra-fast embeddable database, offering data security and instant disaster recovery.
- Supports Windows 10 configuration to run in Federal Information Processing Standards (FIPS) mode.
- Share DICOM OP and OPT compressed data with ZEISS FORUM and electronic medical records (EMRs) using JPEG2000(J2K) or JPEGBaseline methods.
- CIRRUS Review Station supports installation on Windows 10, Windows 11, and Windows Server 2012R2, 2016R2, and 2019 operating systems.

Maximize the impact of your diagnostic data

FORUM® from ZEISS is a scalable and flexible eye care data management solution. It streamlines practice workflow by connecting to CIRRUS and other diagnostic instruments and providing access to all patient examination data for confident, at-a-glance decision-making.

Expand ZEISS FORUM with clinical workplaces

ZEISS Retina Workplace elevates your practice with integrated imaging data from multiple modalities that enables you to register ultra-widefield fundus images with OCT/OCTA images—all on one screen, in a matter of seconds—to help you capture the full breadth and depth of a pathology and generate qualitative and quantitative analysis results.

ZEISS Glaucoma Workplace lets you analyze longitudinal data from visual fields and OCT for progression analysis. As an intuitive, transparent tool, it integrates multiple individual datasets into a single visualization to help guide your assessments by spotlighting changes that could impact disease management.

Technical specifications

ZEISS CIRRUS 6000

Key Parameters	
Methodology:	Spectral domain OCT
Optical source:	Superluminescent diode (SLD), 840 nm
A-scan depth:	2.0 - 2.9 mm (in tissue)
Scan speed:	100,000 A-scans per second
Min. pupil diameter:	2.0 mm
Resolution:	■ Axial resolution ■ Transverse resolution
Refractive error adjustment:	-20D to +20D (dopters)
Fundus Imaging:	■ Methodology ■ Optical Source ■ Field of View (degrees)
Posterior Segment scans:	■ OCT ■ OCTA
Anterior Segment scans:	

Analytical applications	
Retina:	Glaucoma:
■ Macular Thickness Analysis with Reference Database (Diversified and Asian)	■ Guided Progression Analysis
■ Macular Change Analysis	■ Ganglion Cell/IPL Thickness with Reference Database (Diversified and Asian)
■ Advanced RPE Analysis	■ RNFL Thickness with Reference Database (Diversified and Asian)
■ 3D Visualization	■ ONH Parameters with Reference Database (Diversified and Asian)
■ En Face Analysis	■ Average cup-to-disc ratio
■ CIRRUS Wellness Exam	■ Average, Superior and Inferior RNFL Thickness
	■ CIRRUS Wellness Exam
Anterior Segment:	
■ 9 mm Epithelial Thickness and Pachymetry Mapping	
■ HD Cornea with Cornea Caliper Tool	
■ ChamberView™ Full Anterior Chamber Imaging for phakic IOL sizing and safety distance measurements	
■ Angle imaging and measurement tools for Glaucoma (AOD, TISA, SSA)	

Instrument Specifications	
Weight:	35 kg (77 lbs) (without monitor)
Dimensions (L × W × H):	62.2 × 42.5 × 29.2 cm (24.4 × 16.7 × 11.4 in) (without monitor)
Input Power:	■ Voltage and Mains Frequency ■ Electrical Class

Computer Specifications			
Monitor:	22" Widescreen HD	Resolution:	1920×1080
Internal storage:	2 TB with 128 GB SSD (> 80,000 scans)	USB Ports:	minimum 6
Input devices:	Wireless keyboard, Wireless mouse		
Processor:	Intel® Core i7 (7th Gen)		
Operating system (Instrument):	Windows® 10 Enterprise		
Supported operating systems (Review Station):	Windows® 11, Windows® 10, Windows® 8.1, Windows® 7 (64 bit)		

*Not all scan lengths available in HD.
† Montage capable for larger field of view





For information about the ZEISS CIRRUS 6000,
visit www.zeiss.com/cirrus6000

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