Make every second count with high-performance OCT.

ZEISS CIRRUS 6000

www.zeiss.com/cirrus6000

ZEISS

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.

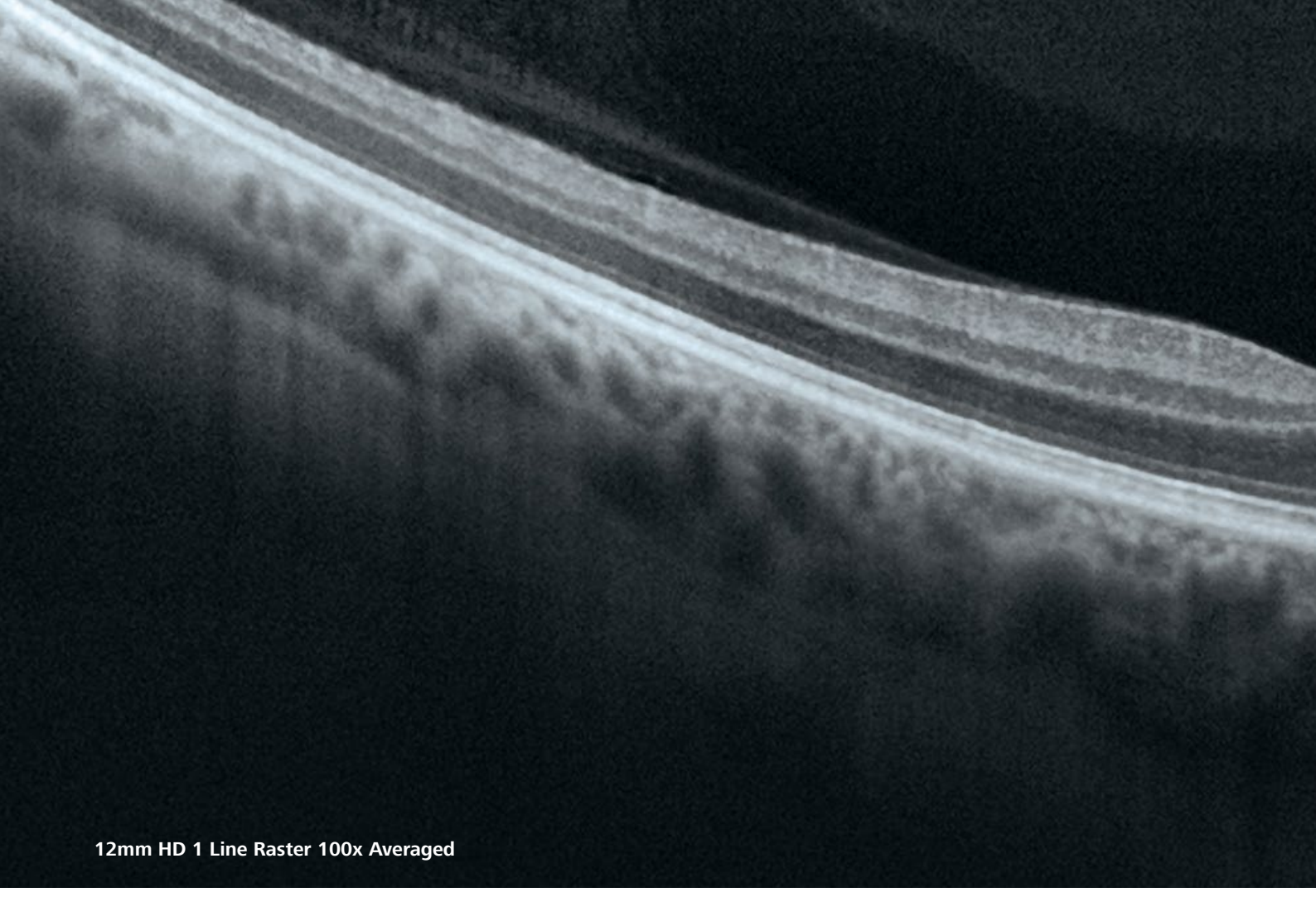
Proven analytics

Comprehensive, clinically-validated tools to diagnose and manage a range of conditions.

Patient-first design

Seamless transfer of raw patient data from previous generations of CIRRUS for continuity of patient care.

CIRRUS 6000
6/4/2021
Montage Angio 6x6 mm 4:08:36 PM
HD 1 Line 20x (10) 6 mm 0° 3:51:00 PM
HD 1 Line 100x (9) 12 mm 0° 3:48:14 PM
HD 1 Line 100x (9) 12 mm 0° 3:46:29 PM
Angiography 12x12 mm (10) 3:45:35 PM
Watermark
Whole Eye
Retina Depth Encoded
Superficial
Deep
Avascular
CRCC



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.

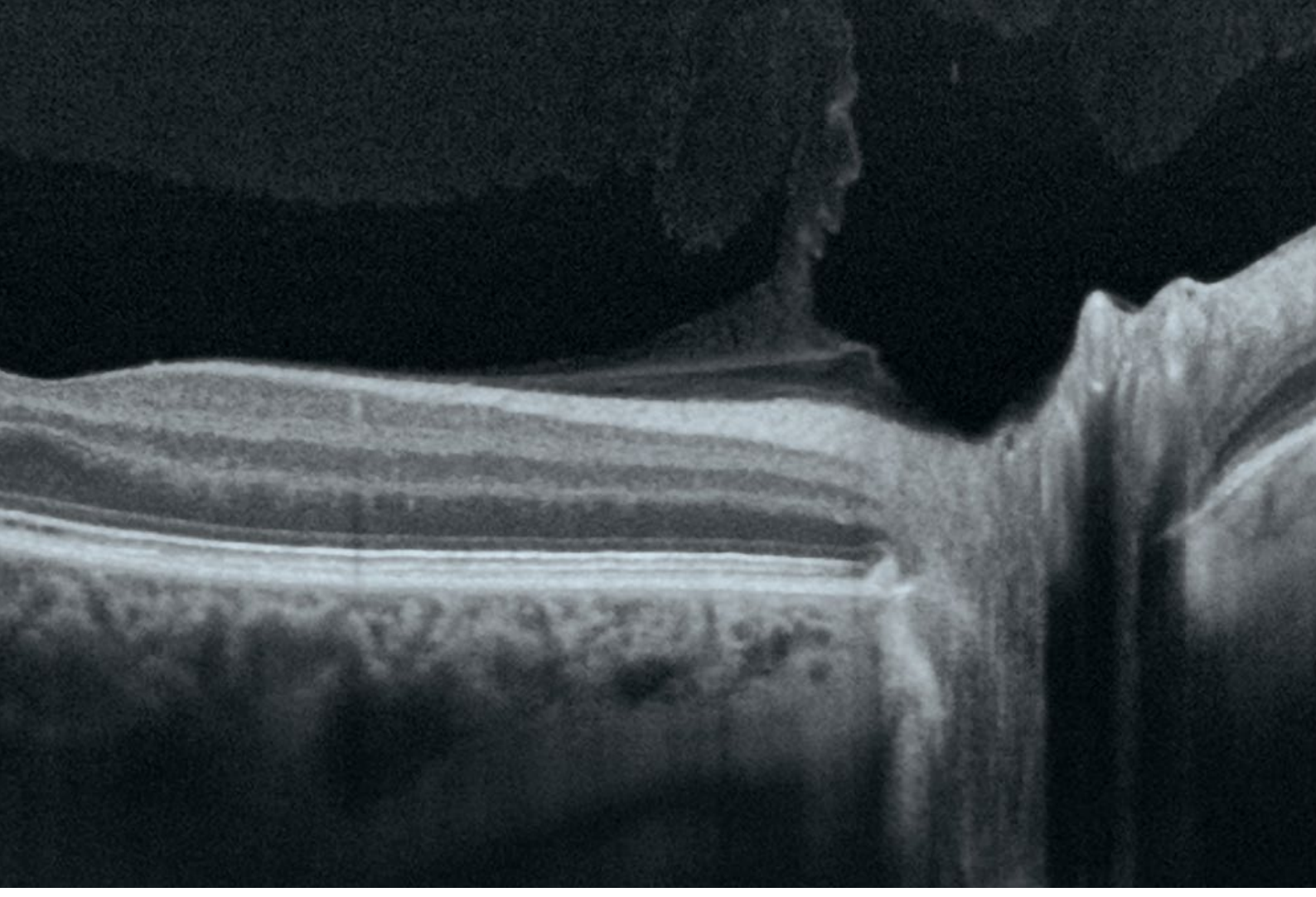
- 270% faster OCT scans and 43% faster OCTA scans.*
- OCT cube scans in as little as 0.4 seconds.
- High-speed imaging in combination with FastTrac™ eye tracking technology reduces the chance of motion artifacts such as those caused by blinks and saccades.

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.

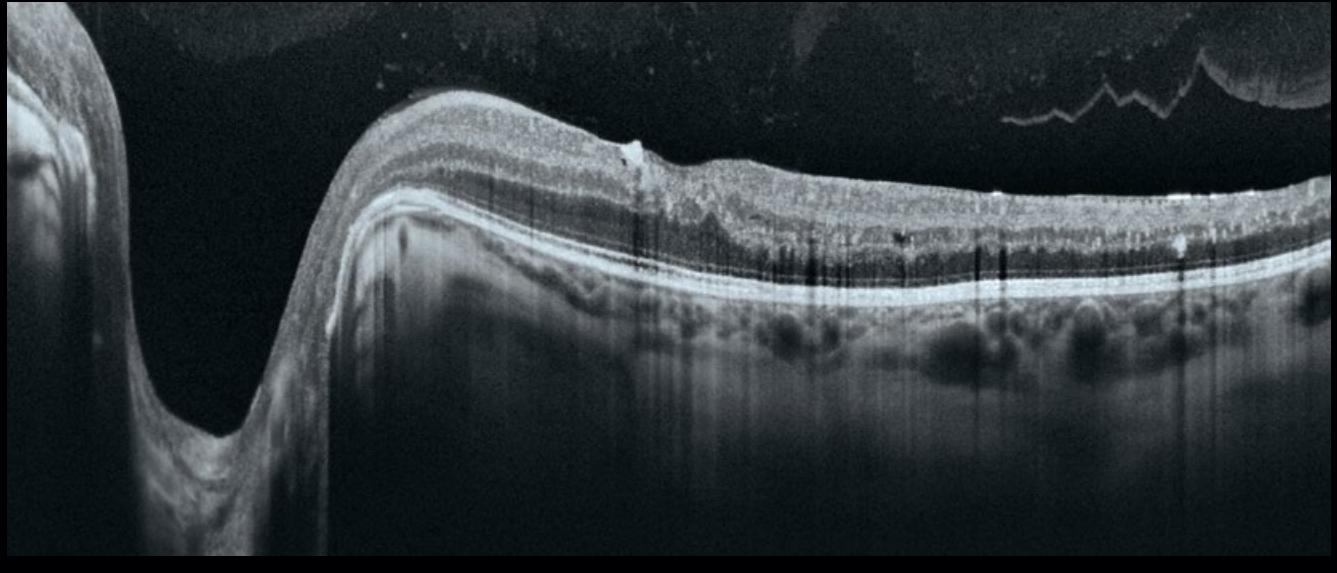
* Compared to prior generations of CIRRUS.



"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, United States

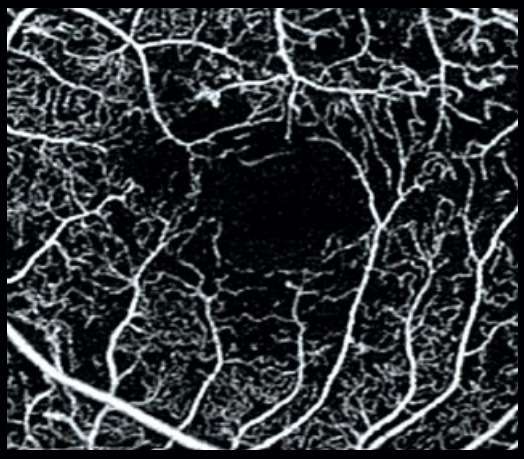
12x12 mm single-shot OCTA of branch retinal vein occlusion (BRVO).
Image courtesy of Jesse Jung, MD, East Bay Retina, United States



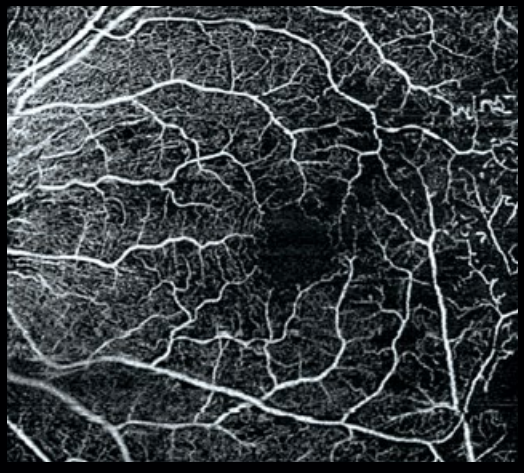
12 mm HD 1 Line Raster 100x averaged. ***Image courtesy of Theodore Leng, MD, Byers Eye Institute, United States***

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

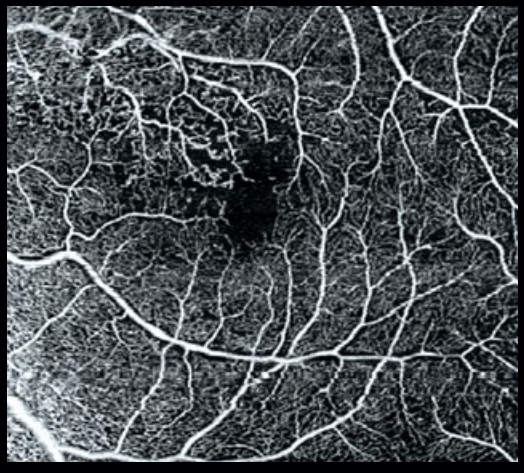
ZEISS CIRRUS 6000 empowers clinicians with a larger field of view in a single scan, and captures high-definition OCT/OCTA scans that reveal finer details of the retinal microvasculature – all of which provides more insight into the patient's condition in less time.



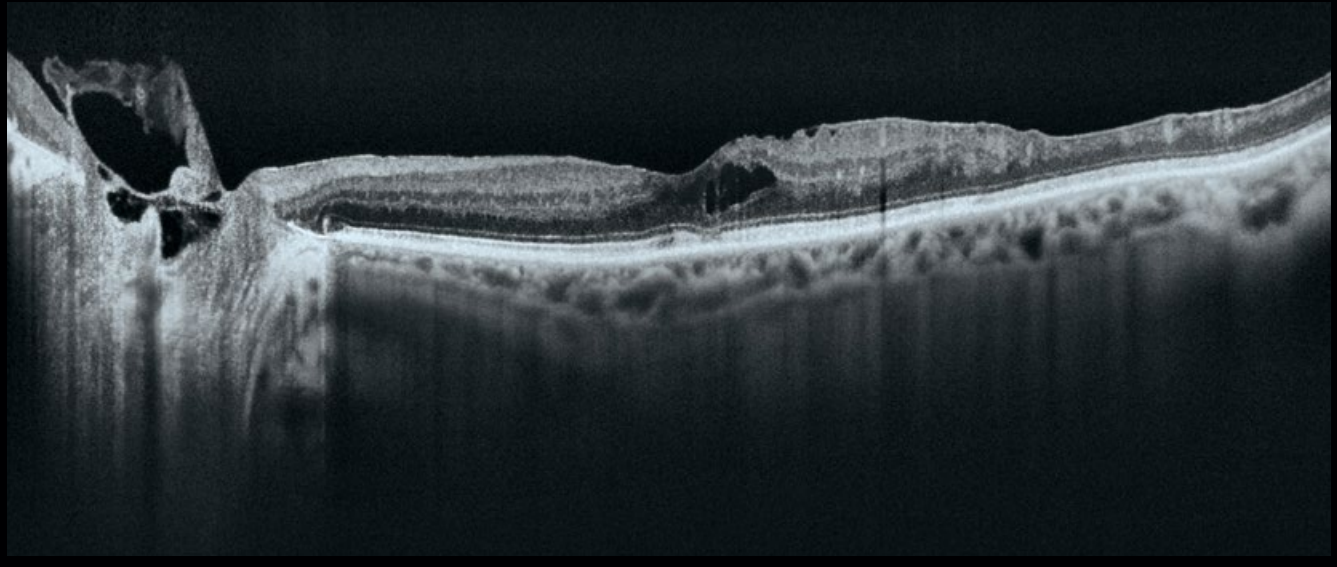
3x3 mm AngioPlex OCTA of proliferative diabetic retinopathy (PDR). ***Image courtesy of Roger Goldberg, MD, Bay Area Retina Associates, United States***



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***

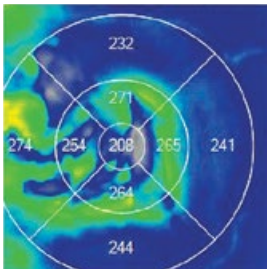
Proven analytics

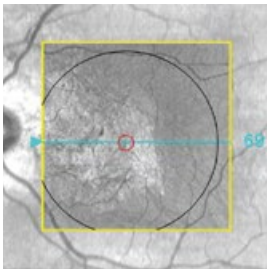
CIRRUS-powered treatment decisions

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.

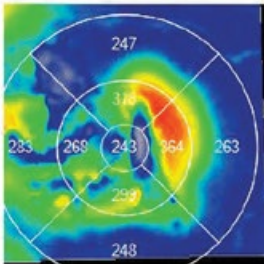
Retina

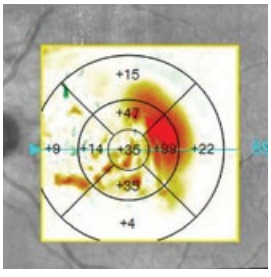
Visit 1





Visit 2

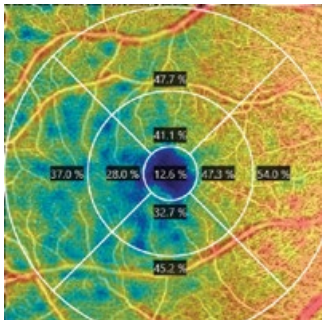


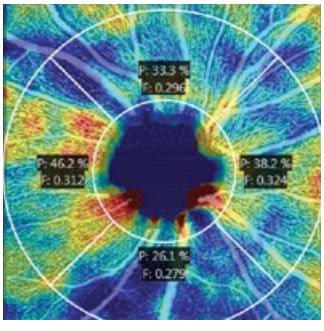


Macular Change Analysis

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.

AngioPlex Metrix OCTA Quantification





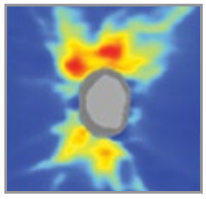
AngioPlex® Metrix™ for Macula and ONH

AngioPlex Metrix allows clinicians to objectively assess and track progressive eye diseases such as diabetic retinopathy and glaucoma with quantification tools such as Vessel Density, Perfusion Density, and Foveal Avascular Zone (FAZ) for the macula, and Capillary Flux Index for the optic nerve head.

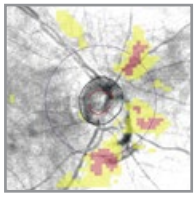
Glaucoma

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.

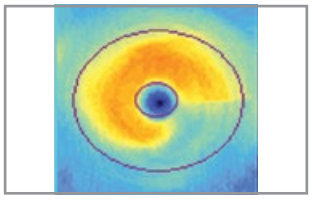


RNFL Thickness Analysis

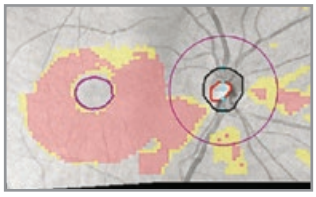


RNFL Deviation Map

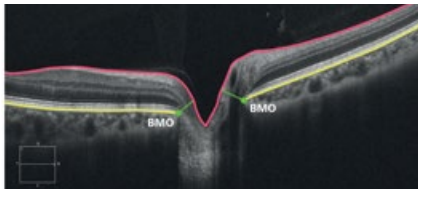
Ganglion Cell Analysis helps identify macular glaucomatous damage, which can be missed with RNFL analysis alone.



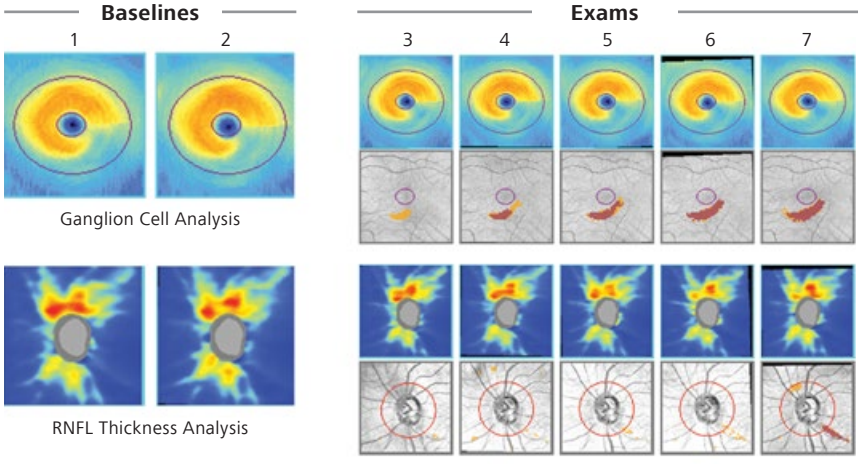
Combined GCL/IPL and RNFL thickness deviation maps provide a comprehensive widefield assessment.



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.

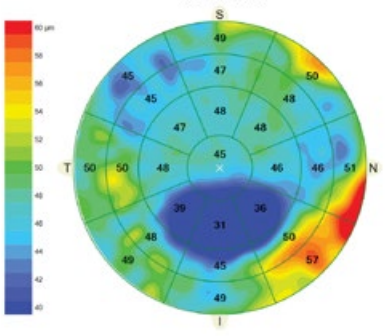


Ganglion Cell Analysis

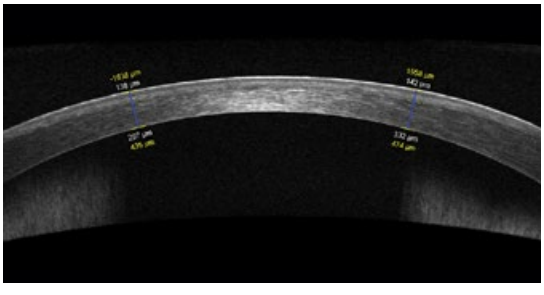
RNFL Thickness Analysis

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



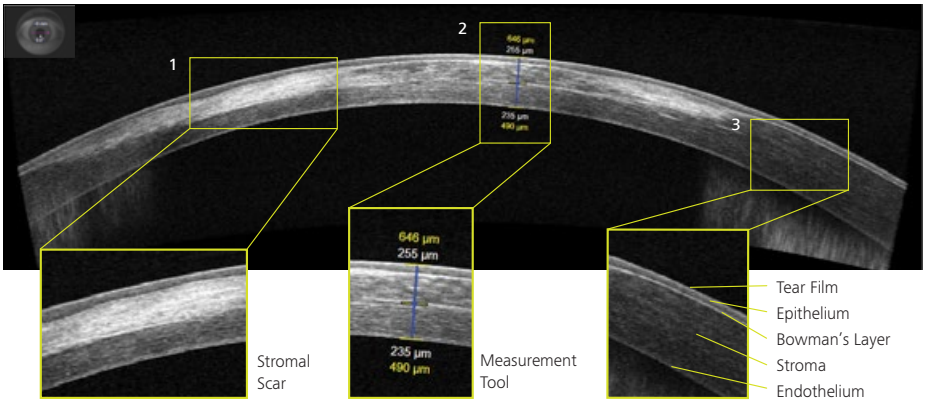
9 mm epithelial thickness map of keratoconus highlights localized epithelial thinning.



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

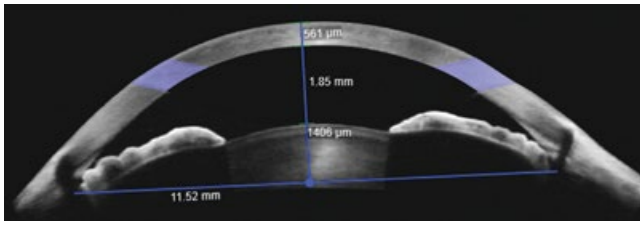
Anterior Segment Premier Module

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



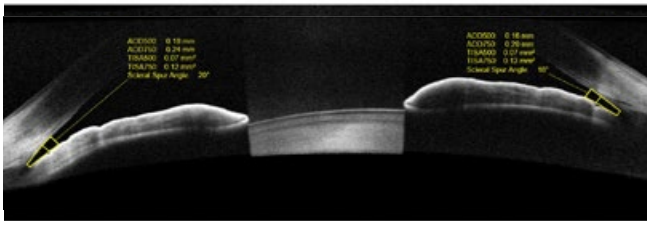
9 mm high-definition cornea imaging with semi-automated measurement tools for flap thickness and residual stromal bed.

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 6000, your patient data is never left behind. The CIRRUS platform ensures seamless transfer of raw, dynamic patient data from previous generations of the device – enabling clinicians to maintain continuity of patient care, even as OCT technology evolves over time.

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	5 µm (in tissue), 1.95 µm (digital)
■ Transverse resolution	12 µm (in tissue)
Refractive error adjustment:	-20D to +20D (dopters)
Fundus Imaging:	
■ Methodology	Line Scanning Laser Ophthalmoscope (LSO)
■ Optical Source	SLD 750 nm
■ Field of View (degrees)	36x30
Posterior Segment scans:	
■ OCT	Cube scan (Macula and Optic Disc) HD Raster (1, 5, 21-line, cross and radial); Raster scan length 3-12 mm; image averaging up to 100x
■ OCTA	3x3, 6x6, 8x8, 12x12 mm (Macula); 4.5x4.5 mm (Optic Nerve Head); 14x10 mm (Montage), 14x14 mm (Montage)
Anterior Segment scans:	Cube, HD Cornea, Pachymetry, HD Angle, Wide Angle-to-Angle, Anterior Chamber, 5-Line Raster

Analytical applications

Retina: ■ Macular Thickness Analysis with Reference Database (Diversified and Asian) ■ Macular Change Analysis ■ Advanced RPE Analysis ■ 3D Visualization ■ En Face Analysis ■ CIRRUS Wellness Exam	**Glaucoma:** ■ Guided Progression Analysis ■ Ganglion Cell/IPL Thickness with Reference Database (Diversified and Asian) ■ RNFL Thickness with Reference Database (Diversified and Asian) ■ ONH Parameters with Reference Database (Diversified and Asian) ■ Average cup-to-disc ratio ■ 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)	**AngioPlex Metrix OCT Angiography Quantification:** ■ Macular ■ Foveal Avascular Zone ■ Perfusion Density (ETDRS grid) ■ Vessel Density (ETDRS grid) ■ Optic Nerve Head ■ Capillary Perfusion Density ■ Capillary Flux Index ■ AngioPlex 2-visit comparison

Instrument Specifications

Weight:	35 kg (77 lbs) (without monitor)
Dimensions (L x W x H):	62.2 x 42.5 x 29.2 cm (24.4 x 16.7 x 11.4 in) (without monitor)
Input Power:	
■ Voltage and Mains Frequency	230V, 100/120V, 50-60Hz
■ Electrical Class	IEC 60601-1 Class I

Computer Specifications

Monitor:	22" Widescreen HD	**Resolution:**	1920x1080
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® 10, Windows® 8.1, Windows® 7 (64 bit)	

CE 0297

CIRRUS 6000

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