

# Make every second count with high-performance OCT.



**ZEISS CIRRUS 6000**



[www.zeiss.com/us/cirrus6000](http://www.zeiss.com/us/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.

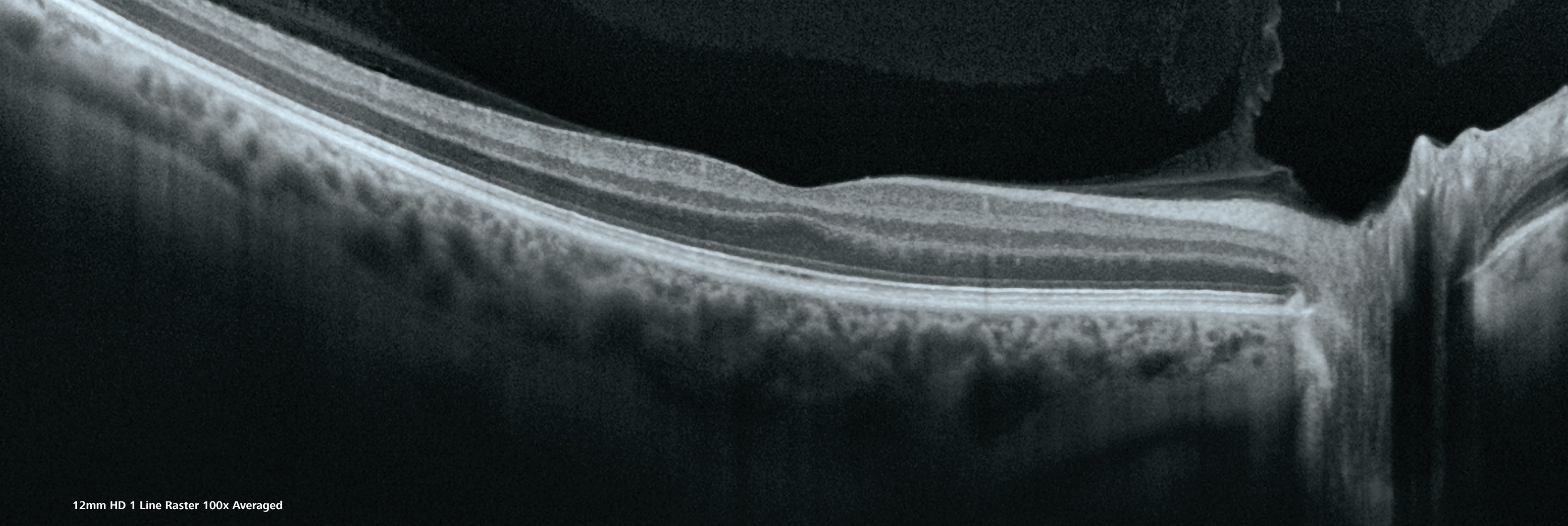
## Proven analytics

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

## Patient-first design

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:

View more in seconds and dig deeper with high-definition 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, and 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**

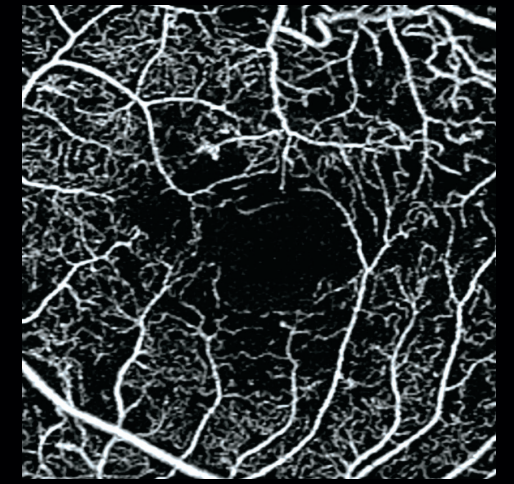
\* Compared to prior generations of CIRRUS.



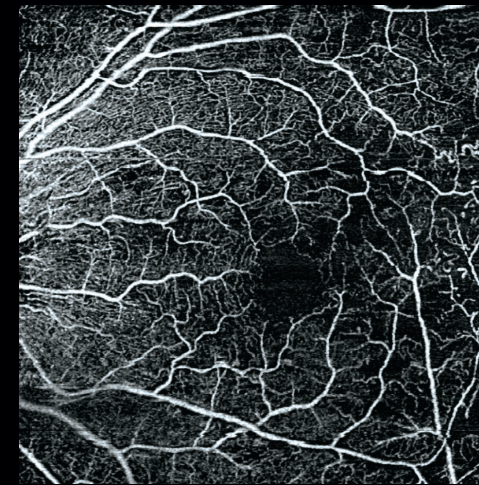
12x12 mm single-shot OCTA of branch retinal vein occlusion (BRVO).  
Image courtesy of Jesse Jung, MD, East Bay Retina, United States

## 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.



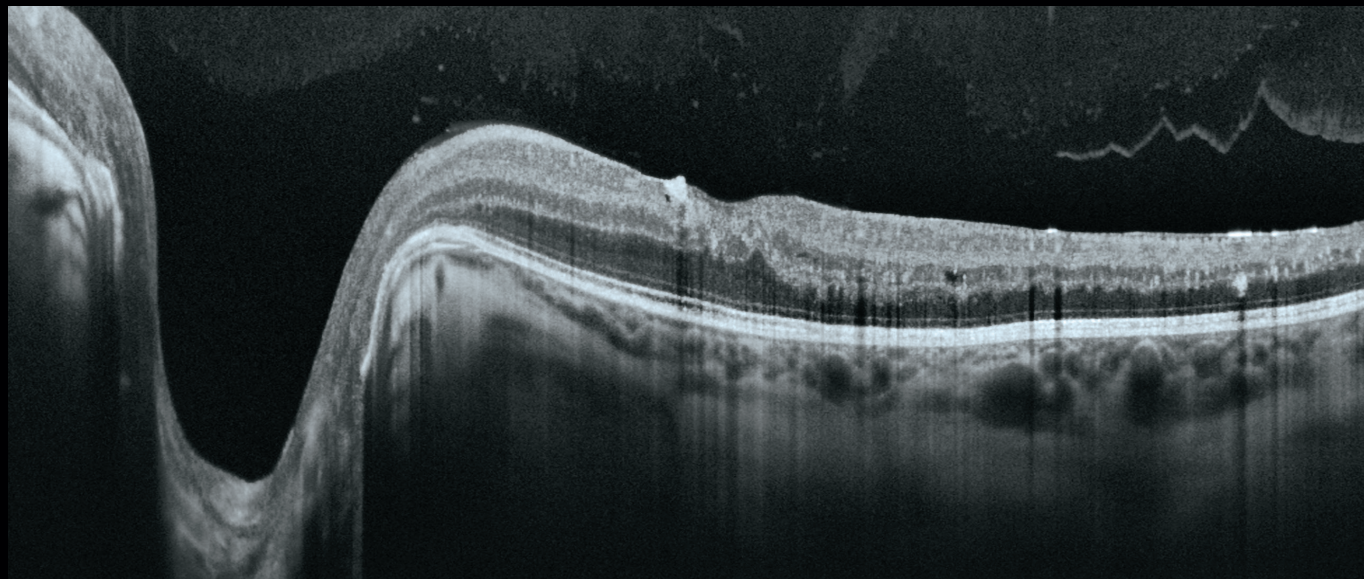
3x3 mm AngioPlex OCTA of proliferative diabetic retinopathy (PDR). Image courtesy of Roger Goldberg, MD, Bay Area Retina Associates, United States



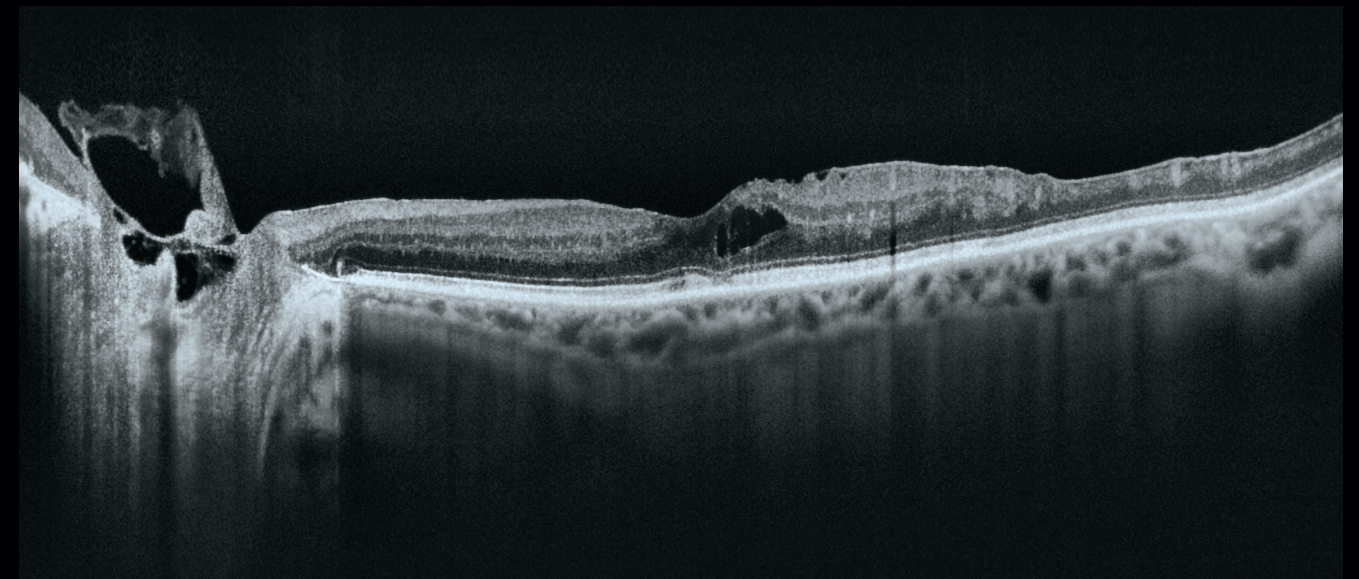
8x8 mm HD AngioPlex OCTA of BRVO.  
Image courtesy of Roger Goldberg, MD, Bay Area Retina Associates, United States



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



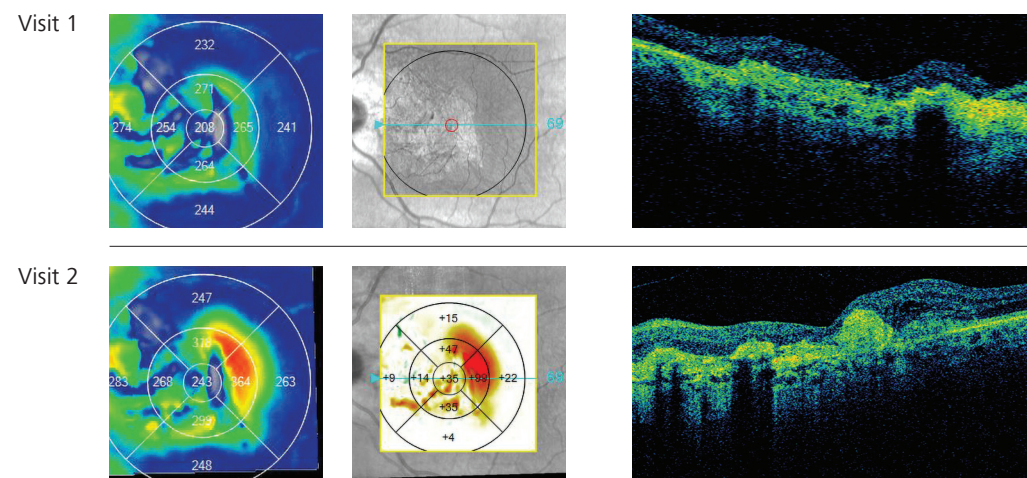
12 mm HD 1 Line Raster 100x averaged. Image courtesy of Theodore Leng, MD, Byers Eye Institute, United States

# 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.

**The CIRRUS Wellness Exam** is a simple, comprehensive OU report for the efficient evaluation of the macula and optic nerve head, and is ideal for patient education.

- 10x6 mm widefield assessment of the posterior pole
- Includes macular thickness, RNFL thickness and Ganglion Cell/IPL thickness with comprehensive reference databases.
- RNFL thickness profile can now be displayed in NSTIN format, as recommended by Don Hood, PhD.\*



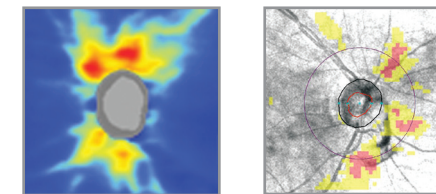
\*Hood DC, Raza AS, De Moraes CG, et al. Evaluation of a One-Page Report to Aid in Detecting Glaucomatous Damage. Transl Vis Sci Technol. 2014;3(6):8. Published 2014 Dec 17. doi:10.1167/tvst.3.6.8

### 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.

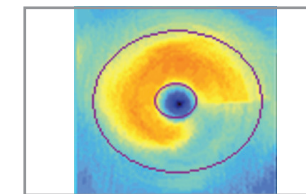


RNFL Thickness Analysis

RNFL Deviation Map

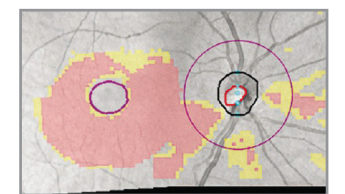
#### Ganglion Cell Analysis

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

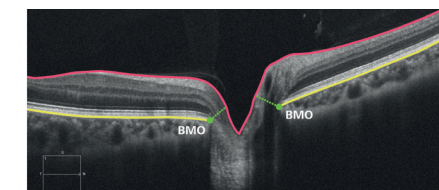


#### Combined GCL/IPL and RNFL thickness deviation maps

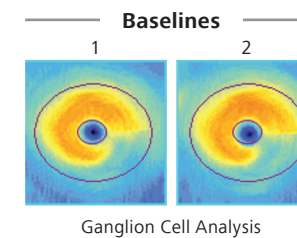
provide a comprehensive widefield assessment.



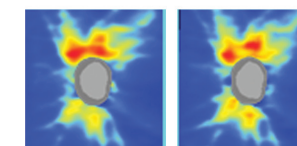
Combined GCA and RNFL Deviation Map



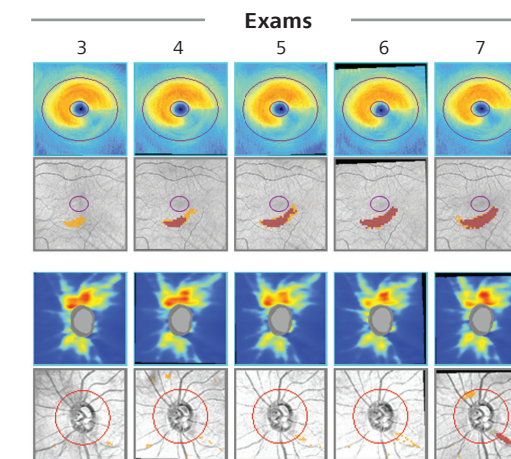
**AutoCenter™ – ZEISS' patented algorithm** automatically identifies the optic nerve head using Bruch's Membrane Opening (BMO) in 3-dimensions for more precise measurement of the neuro-retinal rim, accounting for tilted discs, disruptions to the RPE and other challenging pathology.



Ganglion Cell Analysis

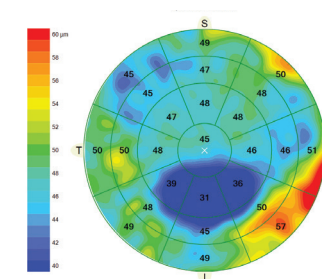


RNFL Thickness Analysis

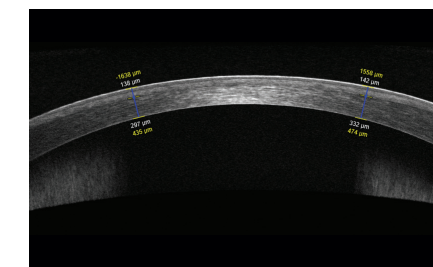


**Unique to ZEISS, Guided Progression Analysis™ (GPA™)** provides both trend and event-based analyses that detect statistically significant change and quantify rate of change for key RNFL, ONH, and GCL/IPL parameters.

### 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.

# Patient-first design

Unique platform designed for the future

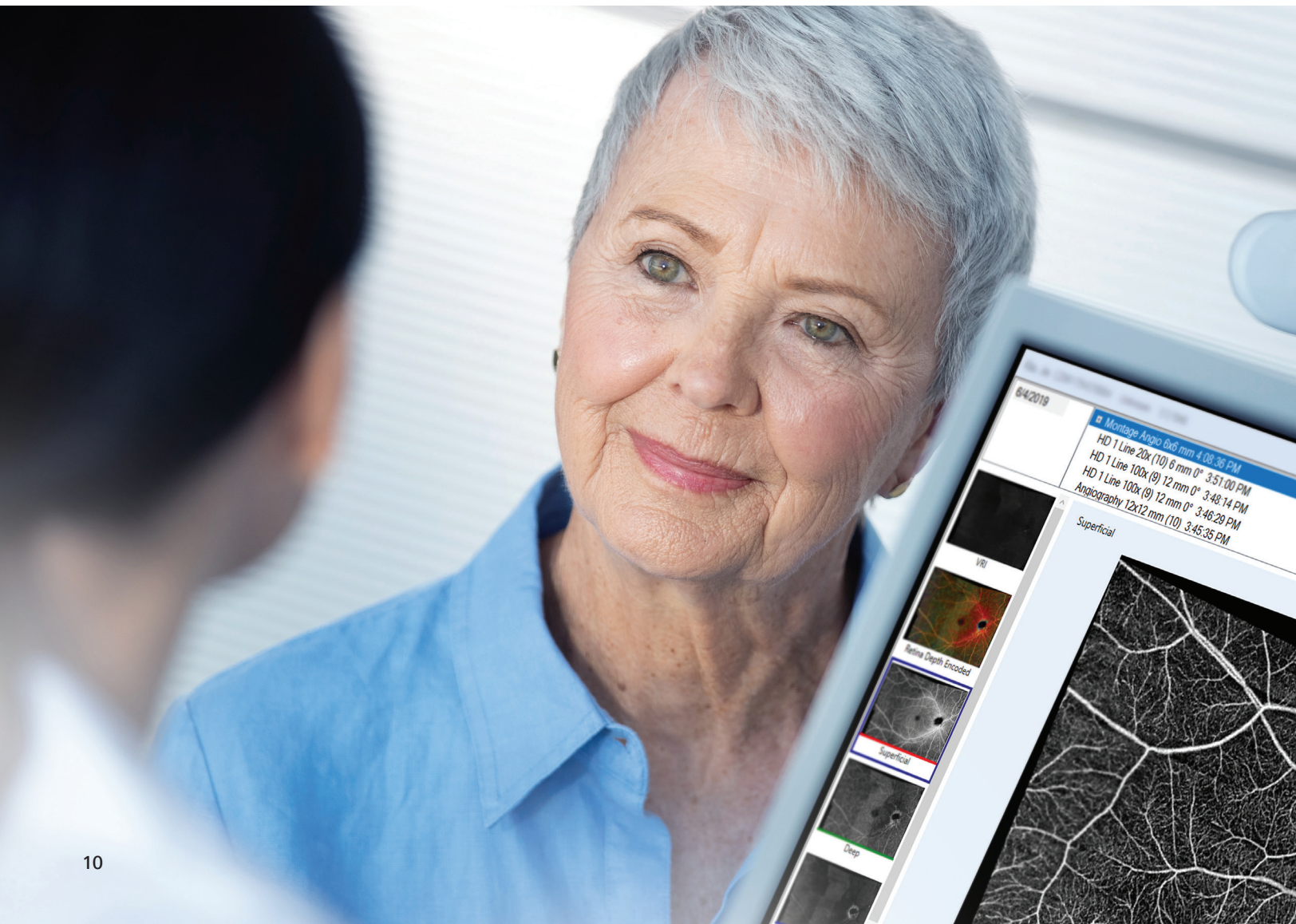
With ZEISS CIRRUS 6000, your patient data is never left behind. The CIRRUS platform ensures seamless transfer of raw, dynamic patient data from previous generations of the device – enabling clinicians to maintain continuity of patient care, even as OCT technology evolves over time.



CIRRUS 4000

CIRRUS 5000

CIRRUS 6000



# Technical specifications

## ZEISS CIRRUS 6000

### Key Parameters

<b>Methodology:</b>	Spectral domain OCT
<b>Optical source:</b>	Superluminescent diode (SLD), 840 nm
<b>A-scan depth:</b>	2.0 - 2.9 mm (in tissue)
<b>Scan speed:</b>	100,000 A-scans per second
<b>Min. pupil diameter:</b>	2.0 mm
<b>Resolution:</b>	<ul style="list-style-type: none"> <li>Axial resolution: 5 µm (in tissue), 1.95 µm (digital)</li> <li>Transverse resolution: 15 µm (in tissue)</li> </ul>
<b>Refractive error adjustment:</b>	-20D to +20D (diopters)
<b>Fundus Imaging:</b>	<ul style="list-style-type: none"> <li>Methodology: Line Scanning Laser Ophthalmoscope (LSO)</li> <li>Optical Source: SLD 750 nm</li> <li>Field of View (degrees): 36x30</li> </ul>
<b>Posterior Segment scans:</b>	<ul style="list-style-type: none"> <li>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</li> <li>OCTA: 3x3, 6x6, 8x8, 12x12 mm (Macula); 4.5x4.5 mm (Optic Nerve Head); 14x10 mm (Montage), 14x14 mm (Montage)</li> </ul>
<b>Anterior Segment scans:</b>	Cube, HD Cornea, Pachymetry, HD Angle, Wide Angle-to-Angle, Anterior Chamber, 5-Line Raster

### Analytical applications

<b>Retina:</b> <ul style="list-style-type: none"> <li>Macular Thickness Analysis with Reference Database</li> <li>Macular Change Analysis</li> <li>Advanced RPE Analysis</li> <li>3D Visualization</li> <li>En Face Analysis</li> <li>CIRRUS Wellness Exam</li> </ul>	<b>Glaucoma:</b> <ul style="list-style-type: none"> <li>Guided Progression Analysis</li> <li>Ganglion Cell/IPL Thickness with Reference Database</li> <li>RNFL Thickness with Reference Database</li> <li>ONH Parameters with Reference Database                             <ul style="list-style-type: none"> <li>Average cup-to-disc ratio</li> <li>Average, Superior and Inferior RNFL Thickness</li> </ul> </li> <li>CIRRUS Wellness Exam</li> </ul>	<b>Anterior Segment:</b> <ul style="list-style-type: none"> <li>9 mm Epithelial Thickness and Pachymetry Mapping</li> <li>HD Cornea with Cornea Caliper Tool</li> <li>ChamberView™ Full Anterior Chamber Imaging for phakic IOL sizing and safety distance measurements</li> <li>Angle imaging and measurement tools for Glaucoma (AOD, TISA, SSA)</li> </ul>
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### Instrument Specifications

<b>Weight:</b>	35 kg (77 lbs) (without monitor)
<b>Dimensions (L x W x H):</b>	62.2 x 42.5 x 29.2 cm (24.4 x 16.7 x 11.4 in) (without monitor)
<b>Input Power:</b>	<ul style="list-style-type: none"> <li>Voltage and Mains Frequency: 230V, 100/120V, 50-60Hz</li> <li>Electrical Class: IEC 60601-1 Class I</li> </ul>

### Computer Specifications

<b>Monitor:</b>	22" Widescreen HD	<b>Resolution:</b>	1920x1080
<b>Internal storage:</b>	2 TB with 128 GB SSD	<b>USB Ports:</b>	8
<b>Input devices:</b>	Wireless keyboard, Wireless mouse		
<b>Processor:</b>	Intel® Core i7 (7th Gen)		
<b>Operating system (Instrument):</b>	Windows® 10 Enterprise		
<b>Supported operating systems (Review Station):</b>	Windows® 10, Windows® 8.1, Windows® 7 (64 bit)		



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CIRRUS 6000



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