

Системы оптической когерентной томографии PLEX Elite 9000, CIRRUS 6000, офтальмологические томографы

Технические характеристики

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ZEISS PLEX Elite 9000 Swept-Source OCT



Angiography

Uncovering the Undiscovered

PLEX® Elite 9000 from ZEISS is a transformational OCT imaging technology that invites retina and glaucoma researchers into a new world of structural and microvascular clarity of the anatomy.

- Elevate ophthalmic imaging at up to 200kHz
- See deeper, wider and in more detail
- Track the progression of retinal and optic nerve diseases

The First Dual-Speed Swept Source OCT

Faster, deeper, and with higher resolution, the new dual-speed PLEX® Elite 9000¹ elevates ophthalmic imaging and clinical research to a new level. With this technology, clinicians can support longitudinal studies while expanding the scope of their research to investigate the clinical benefits of scans acquired at 200kHz scan speed.

A Case of Proliferative Diabetic Retinopathy

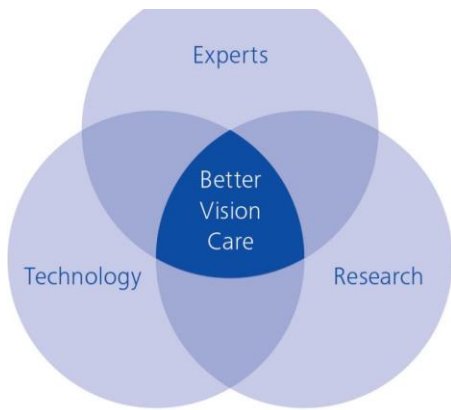
This is a case of a young diabetic patient with severe proliferative diabetic retinopathy in both eyes. The new montage scan acquisition feature of the PLEX Elite 9000 is able to capture ultra-wide OCT angiography images that, in this case, helped the clinician clearly visualize the significant increase in the proliferation of new vessels in both eyes.

Drag the slider side-to-side to track disease progression in this DR patient over just four months. Slide to the right to see the patient's first image. Slide to the left to see the second image, four months later.²

Drive the Discovery.

Join the Advanced Innovation and Research Network.

Discovery starts with desire—the desire and drive to go where others have only imagined, to pave a path for those who will follow. At ZEISS, we're driving the discovery by investing in people, partnerships, and the emerging technologies that will share and define the future of patient care. With an entire global community of like-minded pioneers sharing our desire for discovery, our collaboration will continue to provide inspiration for years to come.



Where collaboration thrives, innovation emerges.

The Advanced Research and Innovation Network.



Advance the science of Retina, Glaucoma and Neuro-Ophthalmology

by collaborating with leading peers from around the world



Access the latest innovations

in ocular imaging technology



Exchange ideas and connect with technology specialists at ZEISS

to accelerate development and improve the standard of care

Specifications

ZEISS PLEX Elite 9000 Swept-Source OCT Angiography

Methodology	Swept-Source OCT
Optical source	Swept-Source tunable laser: center wavelength between 1040 nm and 1070 nm
Scan speed	Dual-speed 100,000 and 200,000 A-scans/sec

A-scan depth	3.0 or 6.0 mm (in tissue) - depending on scan pattern
Axial resolution (optical)	6.3 μm (in tissue)
Axial resolution (digital)	1.95 μm (in tissue)
Transverse resolution*	$\leq 20 \mu\text{m}$ (*transverse [Lateral] resolution is calculated from the beam size at the pupil)
Field of view	56°
Minimum pupil diameter	2.5 mm

Specifications

ZEISS PLEX Elite 9000 Swept-Source OCT Angiography

Methodology	Line-scanning ophthalmoscope (LSO)
Live fundus image	During alignment and during OCT scan
Optical source	Super-luminescent diode (SLD), 750 nm
Field of view	36° W x 30° H
Frame Rate	> 20 Hz

Specifications

ZEISS PLEX Elite 9000 Swept-Source OCT Angiography

Methodology	CCD camera
Resolution	1280x1024

Make every second count with high-performance OCT
ZEISS CIRRUS 6000



Performance OCT

100,000 scans per second to power your practice

CIRRUS® 6000 is the next-generation OCT from ZEISS, delivering 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 the patients who need it.

Learn how you can maximize patient throughput and practice efficiency with ZEISS CIRRUS 6000.

Faster, wider with a new level of detail

At 100,000 scans per second, ZEISS CIRRUS 6000 enables clinicians to image a larger field of view up to 12mm in a single scan. It also captures high-definition (HD) OCT and OCT Angiography (OCTA) scans, revealing the finer microvascular details of the retina and providing more insight into your patient's condition.

Making the revolutionary, routine

ZEISS AngioPlex OCT Angiography

AngioPlex® OCT Angiography from ZEISS ushers in a new era of eye care with non-invasive imaging of retinal microvasculature - taking glaucoma and retinal disease management and treatment planning to the next level. By offering the industry's most comprehensive tools for assessing and analyzing a range of pathologies, ZEISS provides a complete OCT Angiography (OCTA) solution

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—that allow for precise analysis, faster throughput, and smarter decision-making across a range of clinical conditions and patient types.

Clinically-validated tools for a range of conditions

- Expanded reference database now with 870 patients
- Macular change analysis lets you track change between visits with confidence
- Glaucoma: Guided progression analysis and comprehensive tools for glaucoma management
- Epithelial thickness mapping widefield HD corneal imaging and more

- AngioPlex Metrix: OCTA quantification tools for retina and glaucoma

Expanded reference database

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.

CIRRUS software 11.7: 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 secure with BitLocker encryption and DICOM Transport Layer Secure (TLS) protocol.
- New InterBase ultra-fast embeddable database, offering top-of-the-line 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.

Specifications

OCTA	3x3mm, 6x6mm, 8x8mm, 12x12mm (Retina); 4.5x4.5mm (Optic Nerve Head), 14x14 mm, 14x10 mm
Instrument Weight	35 kg (77 lbs) (without monitor)
Scan speed	100,000 A-scans per second
Monitor	22" Widescreen HD
Input devices	wireless keyboard, wireless mouse
Operating system (Instrument)	Windows® 10
Fixation	Internal, external
Internal Fixation (focus adjustment)	-20D to +20D (diopters)
Imaging Modes	Posterior segment, Anterior Segment, OCT Angiography, Fundus Imaging
B-scan	12 mm Raster; 3-12 mm cube
Instrument Dimensions (WxDxH)	62.2L x 42.5W x 29.2H cm (24.4L x 16.7W x 11.4H in)
Processor	i7 Intel® processor (7th gen)

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