PLEX Elite 9000 from ZEISS

Swept-Source OCT

Uncovering the undiscovered.

ZEISS PLEX Elite 9000

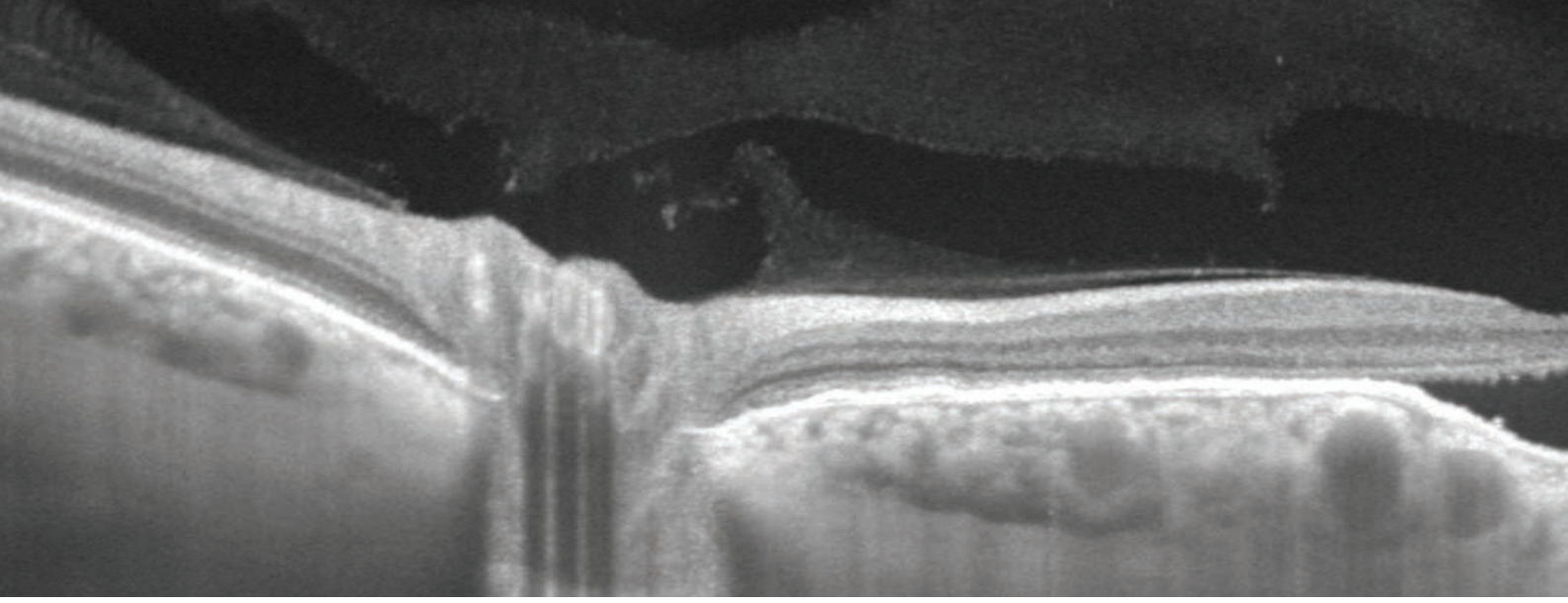
// INNOVATION
MADE BY ZEISS

Ultra-wide angiography *En face* montage
Image courtesy of Prof. G. Querques, San Raffaele Ospedale, Milan, Italy

A new idea is often the start of scientific discovery. But it is transformational new technology that often enables researchers to act upon these ideas and to explore previously unreachable frontiers. PLEX® Elite 9000 from ZEISS is just such a technology. By inviting researchers into a new world of structural and microvascular clarity of the anatomy, PLEX Elite 9000 is foundational to the future of retina research and to the understanding of the development of retinal disease.

ZEISS PLEX Elite 9000

- **SEE** deeper, wider and in more detail
- **STUDY** early mechanisms of micro- and neovascularization of the posterior segment from vitreous to sclera
- **EXPLORE** the progression of retinal and choroidal pathology, such as CNV
- **IMPROVE** understanding of choroid physiopathology
- **EVALUATE** the mechanism of retina and choroid response to a therapy



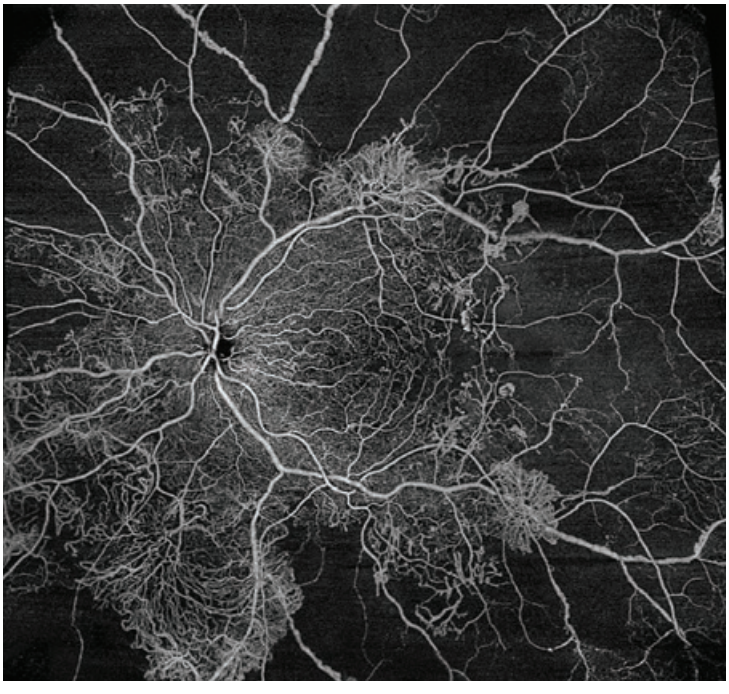
HD Spotlight 16 mm B-scan of choroidal excavation
Image courtesy of Prof. F.G .Holz, Universitäts Augenklinik, Bonn, Germany

Explore deeper meanings

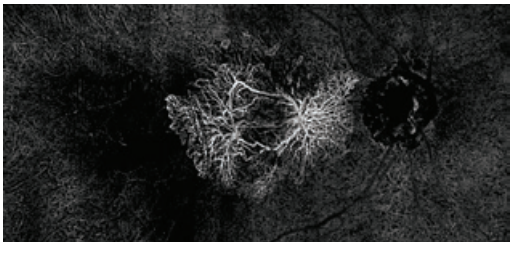
ZEISS PLEX Elite 9000 Swept-Source OCT allows clinical researchers the potential to see deeper, wider and in more detail from the vitreous to the sclera in the posterior segment.

NEW Montage scan acquisition workflow and export features showcase the ability to rapidly acquire an ultra-wide OCT angiography *En face* montage for unprecedented visualization of retinal vasculature with a field of view up to 70°

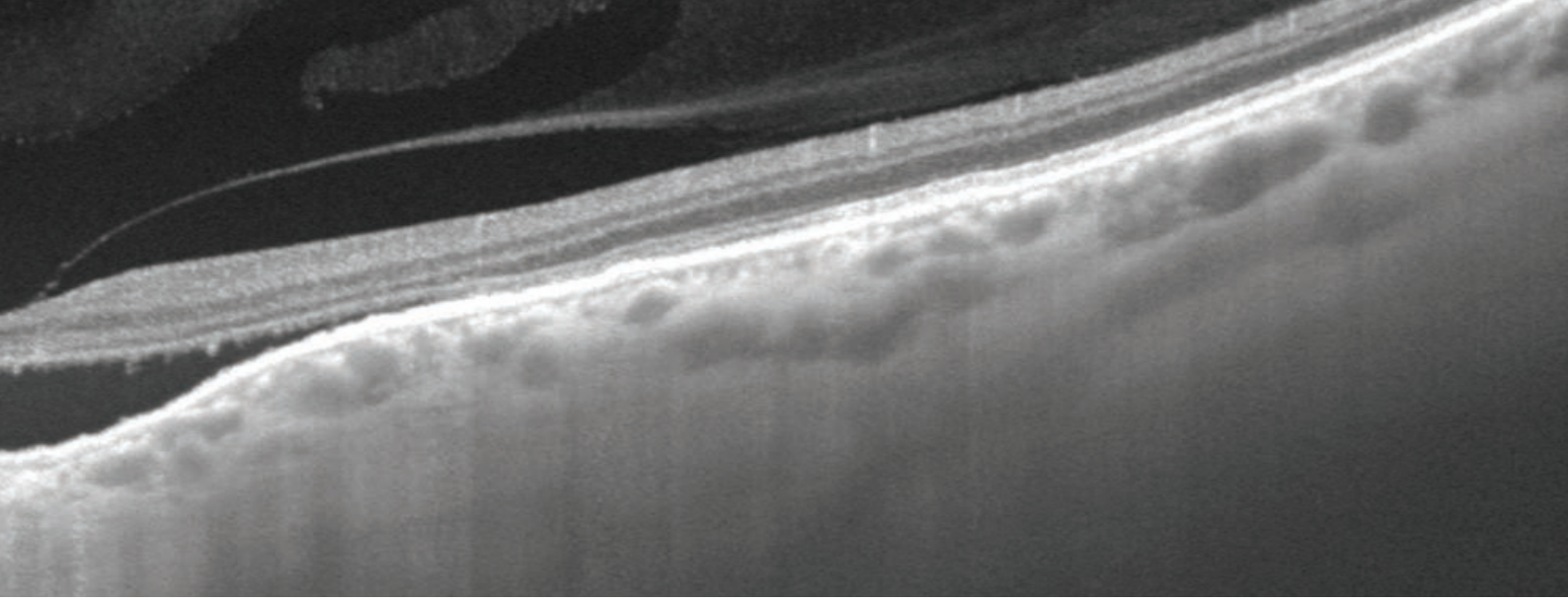
NEW Ultra-wide 15x9 high-density scan reveals the widest field of view captured in a single OCT angiography scan

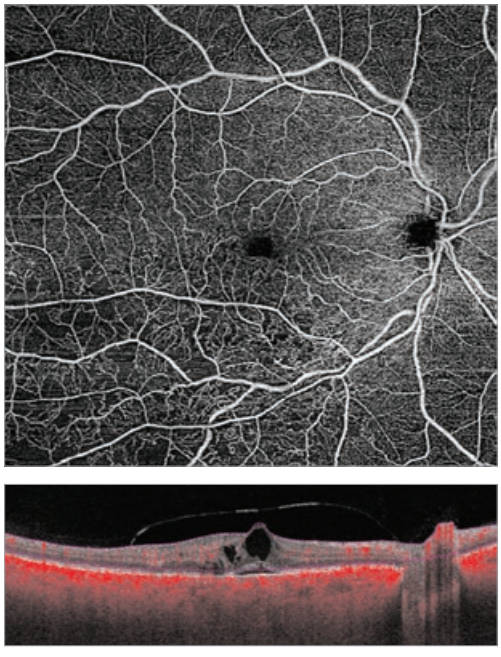


Ultra-widefield AngioPlex montage of proliferative diabetic retinopathy, superficial layer
Image courtesy of Prof Korobelnik, University Hospital Pellegrin, Bordeaux, France



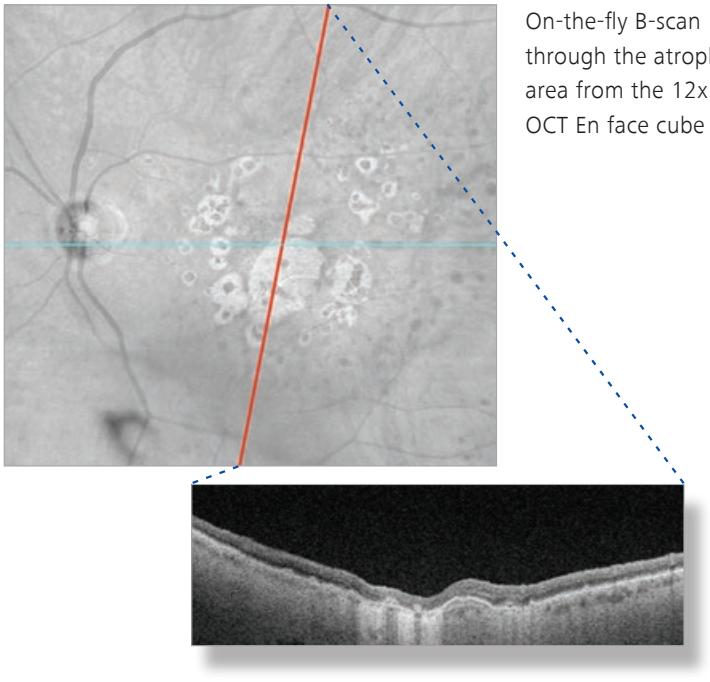
Ultra-wide 15x9 AngioPlex map of choroidal neovascular membrane, RPE/RPE Fit layer
Image courtesy of Prof. Rosenfeld, MD, Bascom Palmer Eye Institute, Miami, FL





12x12 AngioPlex map, superficial layer and corresponding B-scan of a vitreomacular traction

Images courtesy of Prof. Rosenfeld, MD, Bascom Palmer Eye Institute, Miami, FL



On-the-fly B-scan through the atrophic area from the 12x12 OCT En face cube

Standard view AngioPlex® maps provide a full view of the retina at 3x3, 6x6, 9x9 or 12x12

HD spotlight high-detail B-scan up to 16 mm

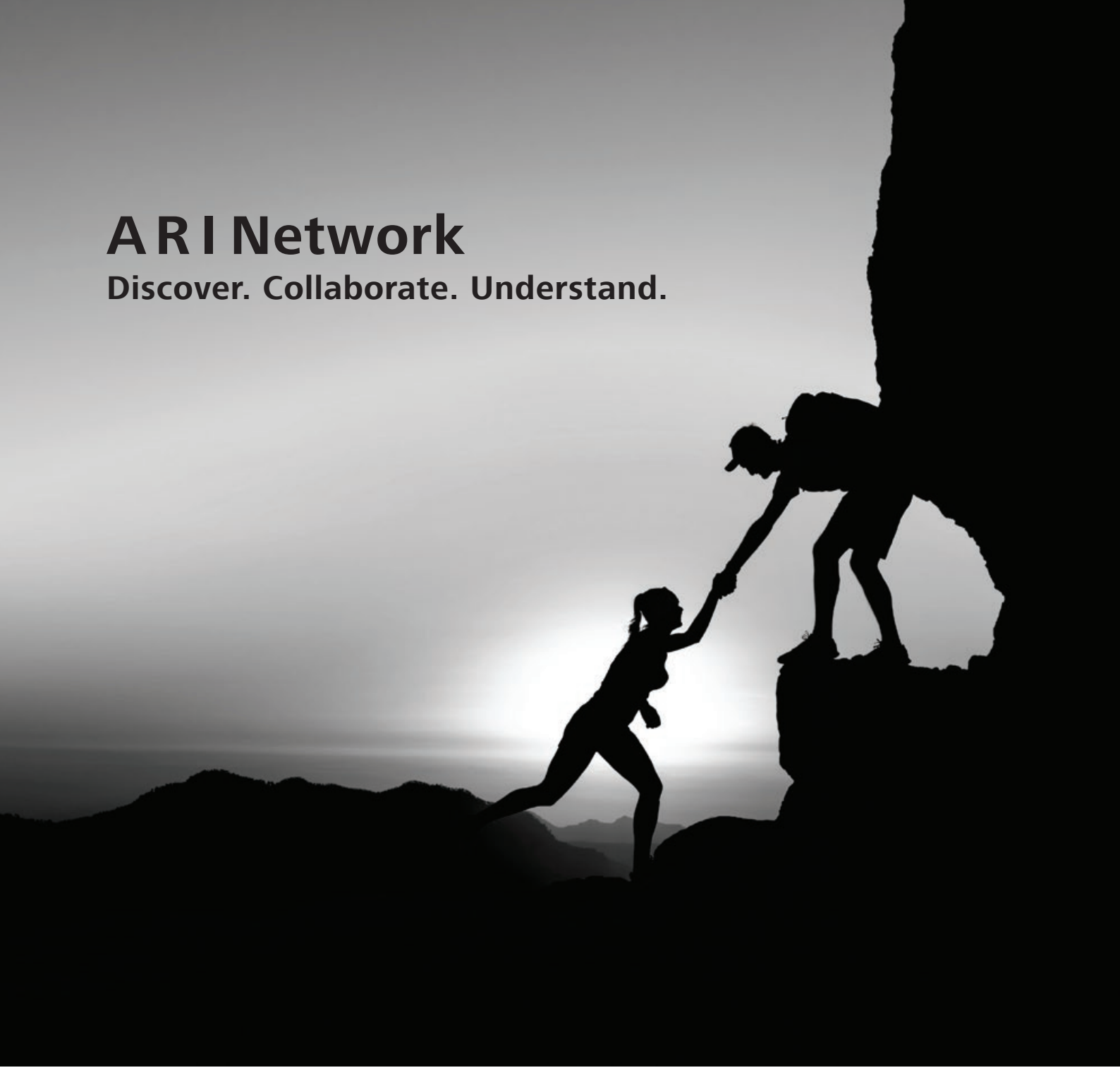
On-the-fly B-scan to define a custom slice through any angle

UHD (ultra-high definition) cubes with excellent image quality of fundus, clear visualization of vasculature and ocular structures at any depth from vitreous to sclera

AngioPlex OCT angiography for ultra-clear 3D microvascular visualizations powered by OMAG[c]

FastTrac™ real-time tracking of eye movement for motion-artifact compensation

Up-to-date software and hardware technology over two years to keep you at the cutting edge of development in the area of Swept-Source OCT



A R I Network

Discover. Collaborate. Understand.

The Advanced Retina Imaging (A R I) Network, with ZEISS PLEX Elite 9000 at its core, brings together the **expertise of leading clinicians and researchers** around the world with scientists and developers **at ZEISS** to accelerate the development of innovations to benefit patients today and in the future.

Through an active exchange of ideas and findings, the aim of the A R I Network is to drive the development of new clinical applications and future OCT technologies.

www.zeiss.com/arinetwork

Technical Specifications

OCT Imaging	
Methodology	Swept-Source OCT
Optical source	Swept-Source tunable laser: center wavelength between 1040 nm and 1060 nm
Scan speed	100,000 A-scans/sec
A-scan depth	3.0 mm (in tissue)
Axial resolution (optical)	6.3 µm (in tissue)
Axial resolution (digital)	1.95 µm (in tissue)
Transverse resolution*	20 µm *(*transverse [Lateral] resolution is calculated from the beam size at the pupil)*
Field of view	56°
Minimum pupil diameter	2.5 mm

Fundus imaging	
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

Iris imaging	
Methodology	CCD camera
Resolution	1280x1024

ZEISS PLEX Elite 9000 is CE Marked and is available for sale in selected countries and in the United States.

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