

Specifications	DREAM OCT® (Model: VG 200D)	
OCT Imaging	Methodology	Swept-Source OCT
	OCT Central wavelength	1030~1070 nm
	Scan speed	200 kHz
	Axial resolution (Optical)	5.5 μm
	Lateral resolution (Optical)	15 μm
	A-scan depth	12 mm (16.2 mm for AS)
	Scan range (Retina)	130° (26 mm)
	Scan range (Anterior)	20 mm
OCTA Imaging	Scan range (Retina)	130° (26 mm × 26 mm)
	OCTA montage	225° (44 mm × 42 mm)
	Algorithm	TRUE Angio™
Fundus Imaging	Methodology	cSLO
	Optical source	SLD
	Wavelength	830±20 nm
	Field of view	90° x 90°
Others	Range of refractive compensation	-33 D ~ +40 D
	Alignment	Automatic / Electrical



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 Please note that the information provided in this brochure may differ from the approved status of the product or service in your country. For region-specific details, kindly consult your local Intalight representative. Product specifications, design, and delivery scope are subject to modification without prior notice as part of our continuous product development efforts.
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DREAM OCT®

Exploring the Whole Eye with Precision

D **deep** imaging depth of
12 mm (retina) / 16.2 mm (anterior segment)

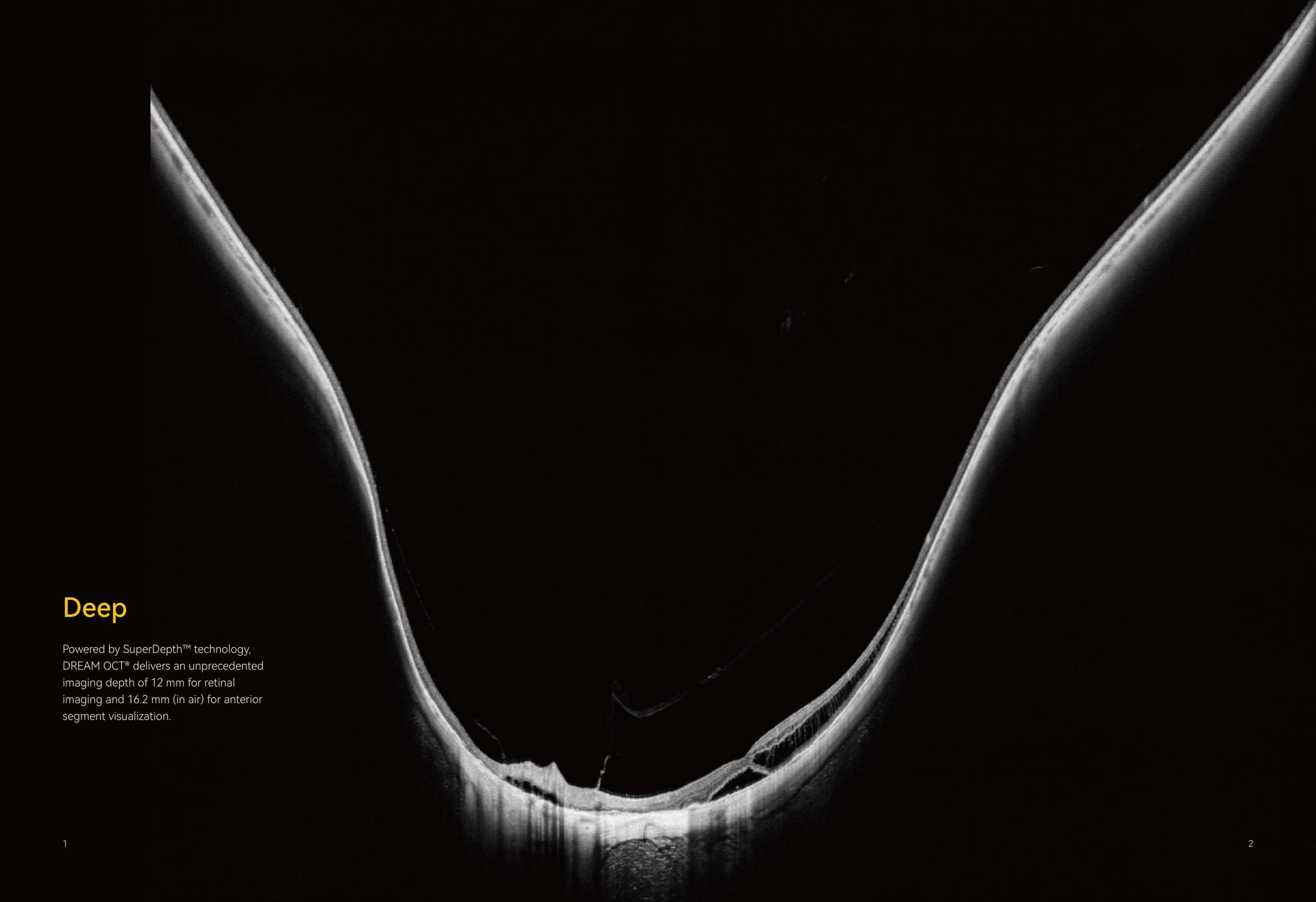
R **apid** sweeping speed of
200 kHz

E **xtensive** scan range of
130° (single capture) / 225° (montage)

A **ccurate** results powered by
the multi-lens DREAM Optical Solution

M **ultimodal** integration of
retinal OCT/A and AS OCT/A in one system





Deep

Powered by SuperDepth™ technology, DREAM OCT® delivers an unprecedented imaging depth of 12 mm for retinal imaging and 16.2 mm (in air) for anterior segment visualization.

Rapid

With a scan speed of up to 200 kHz, DREAM OCT® delivers enhanced performance. High speed is crucial for high-resolution OCT angiography and helps reduce artifacts caused by eye movements.

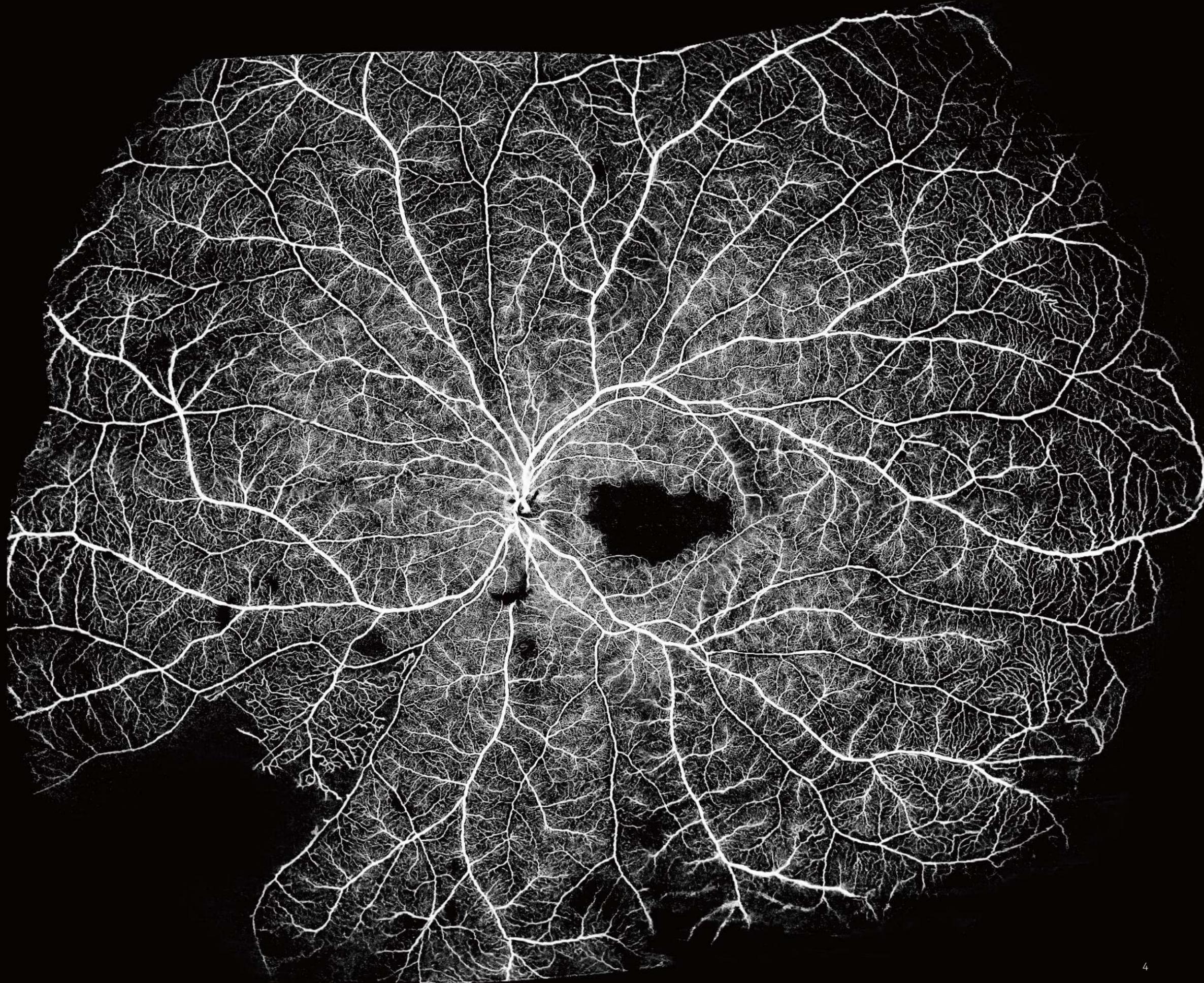
DREAM OCT® up to 200,000 A-Scans/s

High-end SD-OCT

SD-OCT

Extensive

With a single scan, DREAM OCT® captures an ultra-wide field of 130° (26 mm × 26 mm) on the retina. Its automatic montage feature extends the field even further to 225° (44 mm × 42 mm), covering beyond the posterior hemisphere and revealing peripheral retinal lesions.





Accurate & Multimodal

More lenses. More confidence.

DREAM optical solution features a multi-lens optical system, with each lens precisely tuned for a specific task — from ultra-widefield retina imaging to high-resolution macula and optic disc scans, panoramic anterior segment assessment, and even animal research.

Unlike all-in-one widefield lenses that often sacrifice detail for coverage, DREAM OCT® ensures crystal-clear imaging in every scenario — no compromises, just precision where it matters most.

Standard



Standard Lens

Optimized for high-resolution imaging of the macula and optic disc, providing superior image quality compared to ultra-widefield imaging.

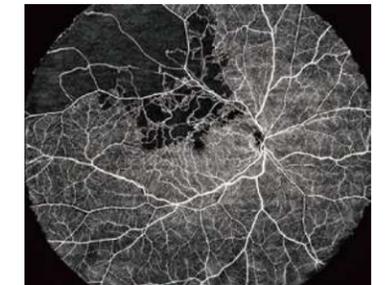


Add-on



Ultra-Widefield Lens

An add-on ultra-widefield lens designed to expand the imaging range of the retina significantly.

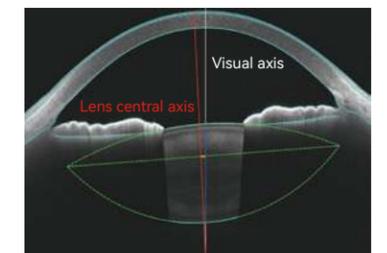


Built-in



Anterior Segment Lens

Incorporating DREAM OCT® patented design, the optical path can be electrically switched to a dedicated anterior segment mode, ensuring both imaging range and accuracy.

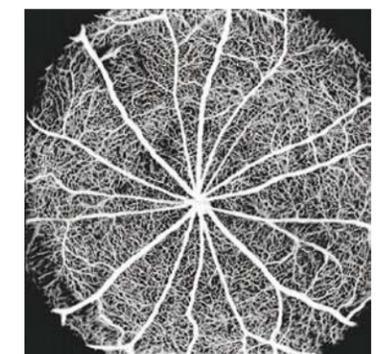


Add-on



Animal Imaging Lens

Tailored for different eye sizes, delivering superior imaging for various animal models.



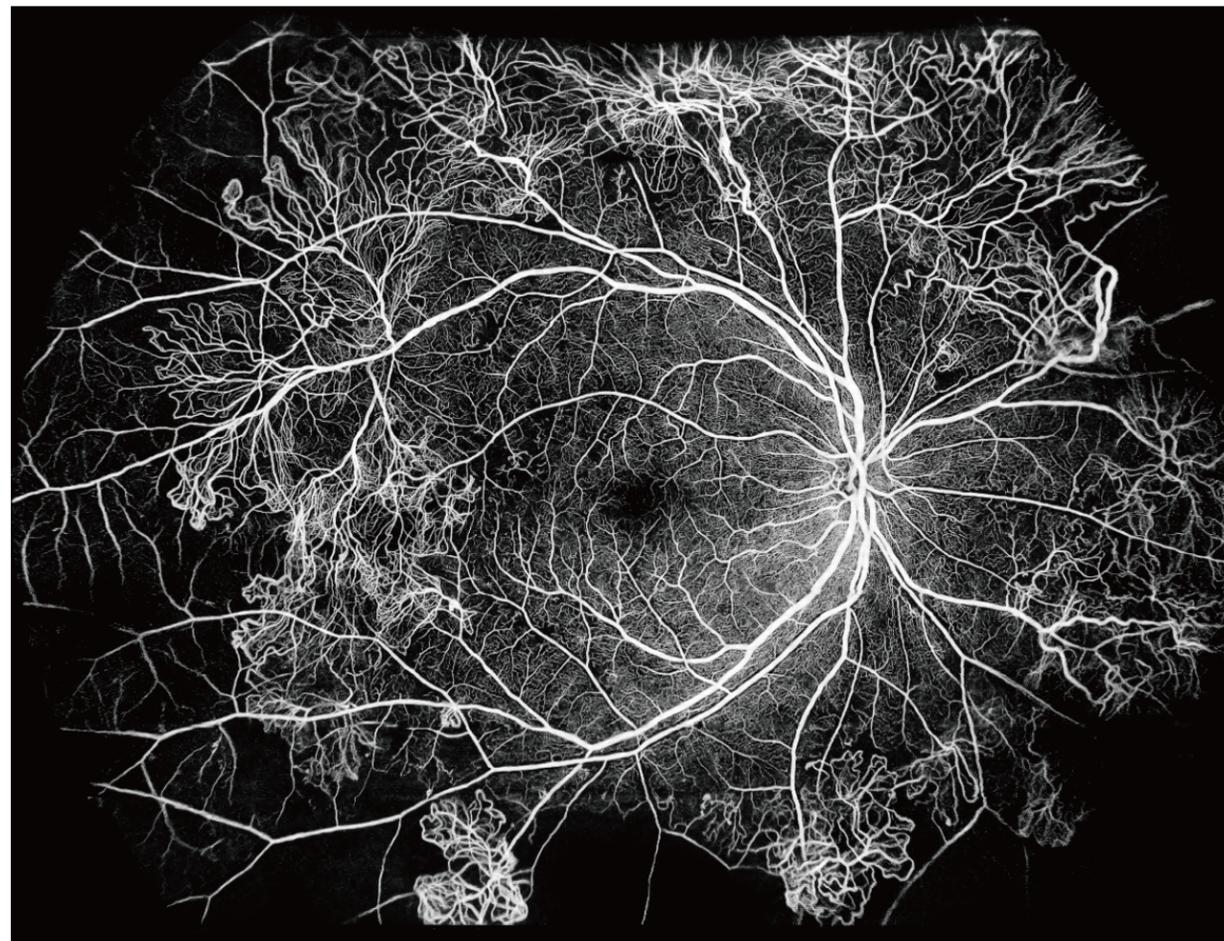
Retina & Vitreous

One-Stop DREAM Solution

The powerful DREAM Swept-Source engine and the "TRUE Angio™" algorithm enhance the excellent performance of DREAM OCT® in the retina & vitreous field. The ultra-widefield high-resolution imaging, the higher detection sensitivity, and the various quantitative analysis, could provide infinite possibilities for both clinical diagnosis and research work.

Ultra-Widefield OCT Angiography

The ultra-widefield OCTA covering a range of 26 mm x 26 mm (130°) with one single scan, and the montage of over 225° field of view, could provide much more diagnostic information for diseases with extensive lesions in a non-invasive and more efficient way, compared with the fluorescence angiography.

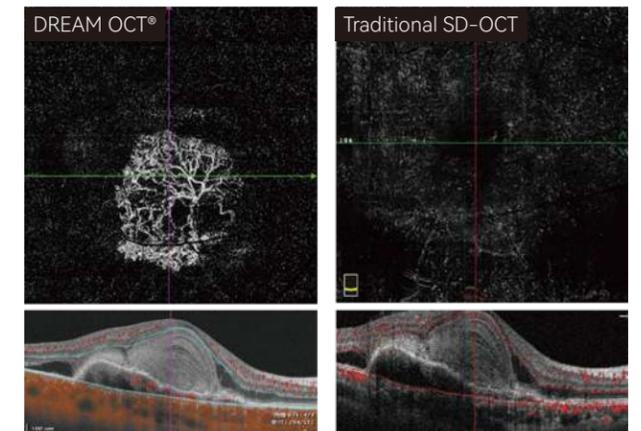


225° montage of ultra-widefield OCTA

Higher Detection Sensitivity

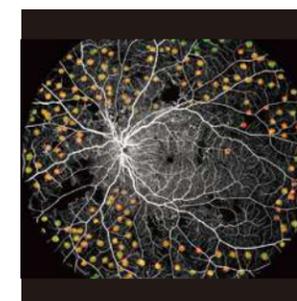
With a standard lens and the TRUE Angio™ algorithm, DREAM OCT® effortlessly penetrates ocular media opacity, delivering exceptionally clear fundus OCT images.

This enhanced clarity allows for more accurate preoperative prognosis assessment, aiding confident surgical decision-making.

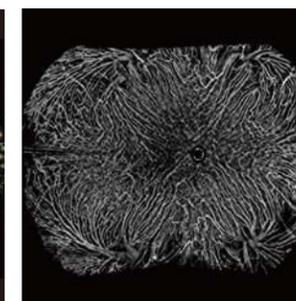


The comparison of OCTA images for a same patient on a same day. The DREAM OCT® could penetrate through the organized hemorrhage and show the details of the lesion clearly and completely, while the traditional SD-OCT could not show any abnormal flow signal at all.

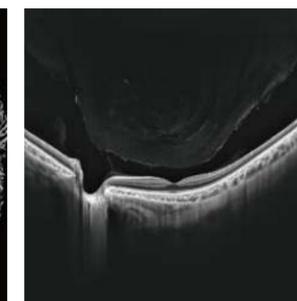
Expanded Imaging Capabilities



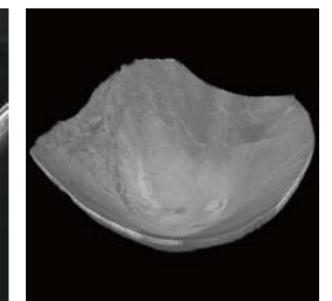
Laser Spot Detection



Choroidal vascular imaging



High-Resolution Vitreous Imaging



OCT 3D Display (PVD)

Cataract

One-Stop DREAM Solution

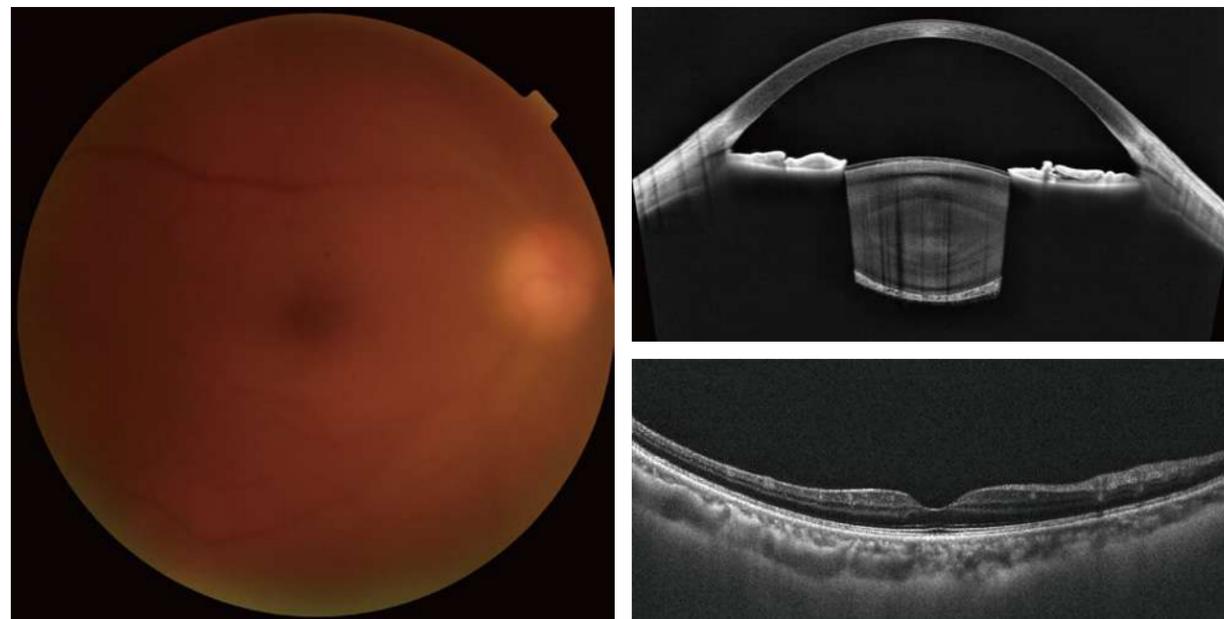
DREAM OCT® utilizes swept-source technology, offering deeper tissue penetration compared to SD-OCT. This makes it easier to visualize the retina in cataract patients. In addition, with anterior segment imaging capabilities, DREAM OCT® allows for comprehensive assessment of the cornea, anterior chamber angle, and lens—both before and after cataract surgery.

Higher Success Rate of Retinal OCT Scanning for Patients with Ocular Media Opacity

Using the brand-new Swept-Source OCT technology, the DREAM OCT® could penetrate the ocular media opacity much more easily, and provide much clearer OCT images of the fundus, so that we can easily predict the prognosis of the surgery before we make a decision.

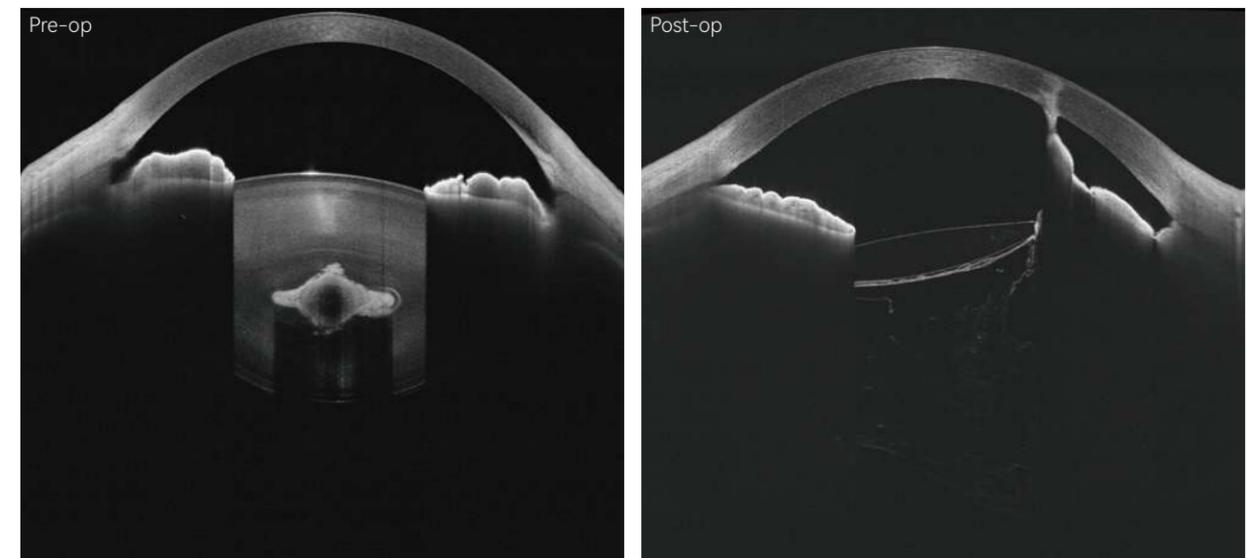


DREAM OCT® delivers clear visualization of retinal structures even when color fundus photography is significantly compromised by cataract opacity.



Pre and Post operative Cataract Assessment

DREAM OCT® provides high-resolution anterior segment imaging with a scan depth of up to 16.2 mm, allowing clear visualization of the posterior capsule, corneal incision, anterior chamber angle, and anterior vitreous.

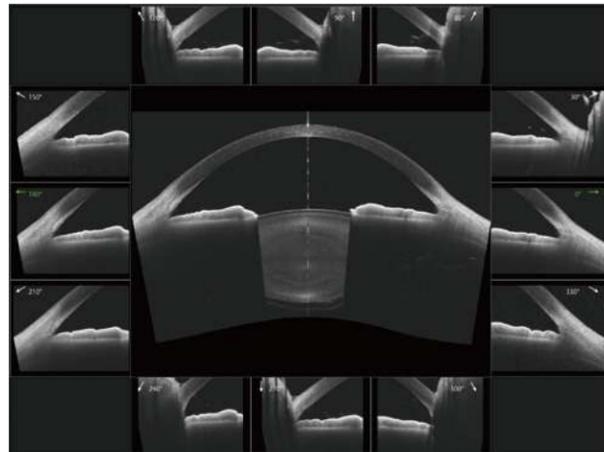


Glaucoma

One-Stop DREAM Solution

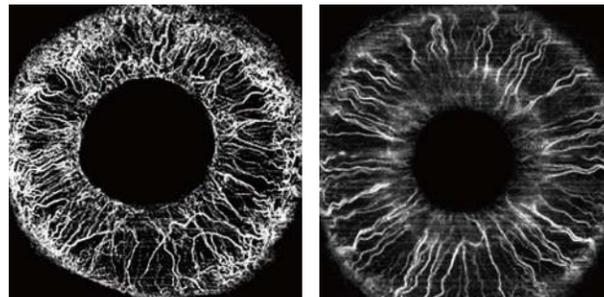
360° Anterior Chamber Angle Visualization

DREAM OCT® captures 360° angle structures in a single scan, enabling efficient and comprehensive anterior chamber angle assessment.



Iris OCTA Imaging

DREAM OCT® offers OCTA imaging of the iris, providing a new perspective for evaluating glaucoma-related vascular changes.

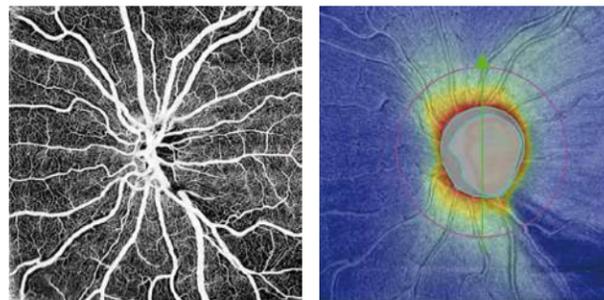


New vessels on the iris

AS-OCTA of normal iris

Glaucoma Observation with OCT and OCTA

DREAM OCT® enables simultaneous visualization of vascular and structural changes, providing comprehensive insights into glaucomatous alterations in the retina.

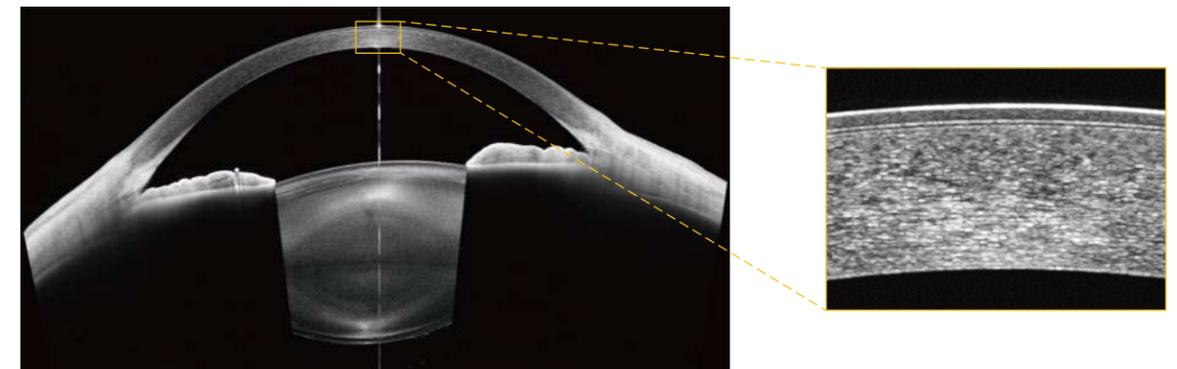


Corneal Diseases

One-Stop DREAM Solution

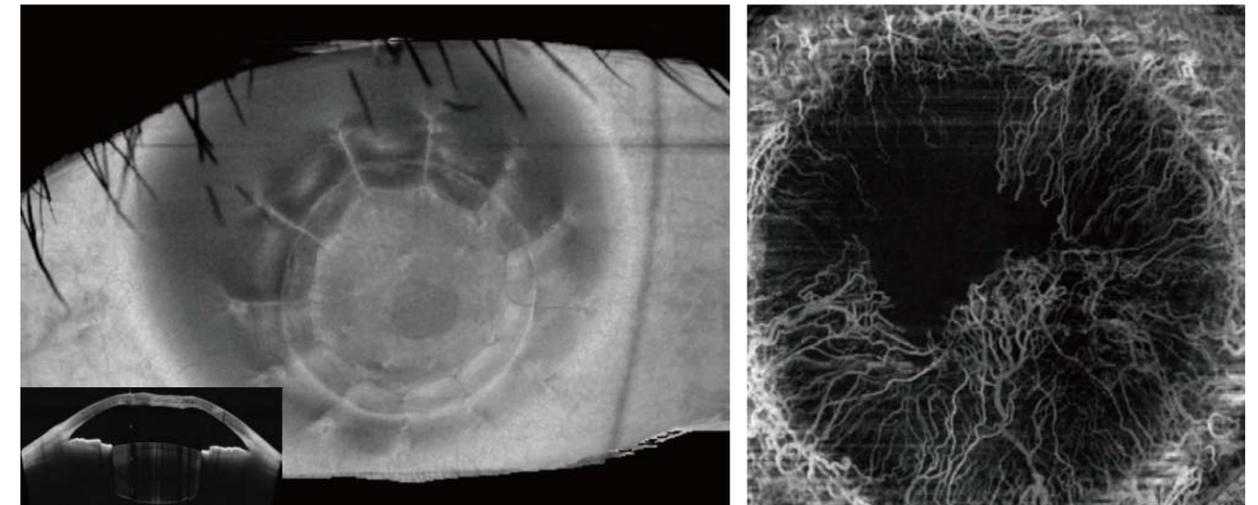
High-Resolution Anterior Corneal Imaging

DREAM OCT® enables high-resolution imaging of the corneal epithelium and Bowman's layer, providing detailed structural visualization for anterior segment evaluation.



3D Visualization of the Cornea with OCT / OCTA

DREAM OCT® provides high-resolution 3D OCT and OCTA imaging of the cornea, enabling detailed assessment of corneal structure and vasculature.



Post-corneal transplant OCT & en face OCT

OCTA Imaging of Corneal Neovascularization