

Specifications	DREAM OCT® (Model: VG 100D)	
OCT Imaging	Methodology	Swept-Source OCT
	OCT Central wavelength	1030~1070 nm
	Scan speed	100 kHz
	Axial resolution (Optical)	5.5 μm
	Lateral resolution (Optical)	15 μm
	A-scan depth	9 mm (12.2 mm for AS)
	Scan range (Retina)	83° (16 mm)
	Scan range (Anterior)	20 mm
OCTA Imaging	Scan range (Retina)	83° (16 mm × 16 mm)
	OCTA montage	175° (34 mm × 30 mm)
	Algorithm	TRUE Angio™
Fundus Imaging	Methodology	cSLO
	Optical source	SLD
	Wavelength	830±20 nm
	Field of view	60° x 60°
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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ALL IN ONE

Exploring the Whole Eye
With Precision



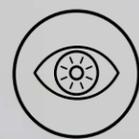
Retinal OCT



Retinal OCTA



AS-OCT



AS-OCTA



DREAM OCT®

The New Generation of Swept Source OCT

D **Deep** imaging depth of
9 mm (retina) / 12.2 mm (anterior segment)

R **Rapid** sweeping speed of
100 kHz

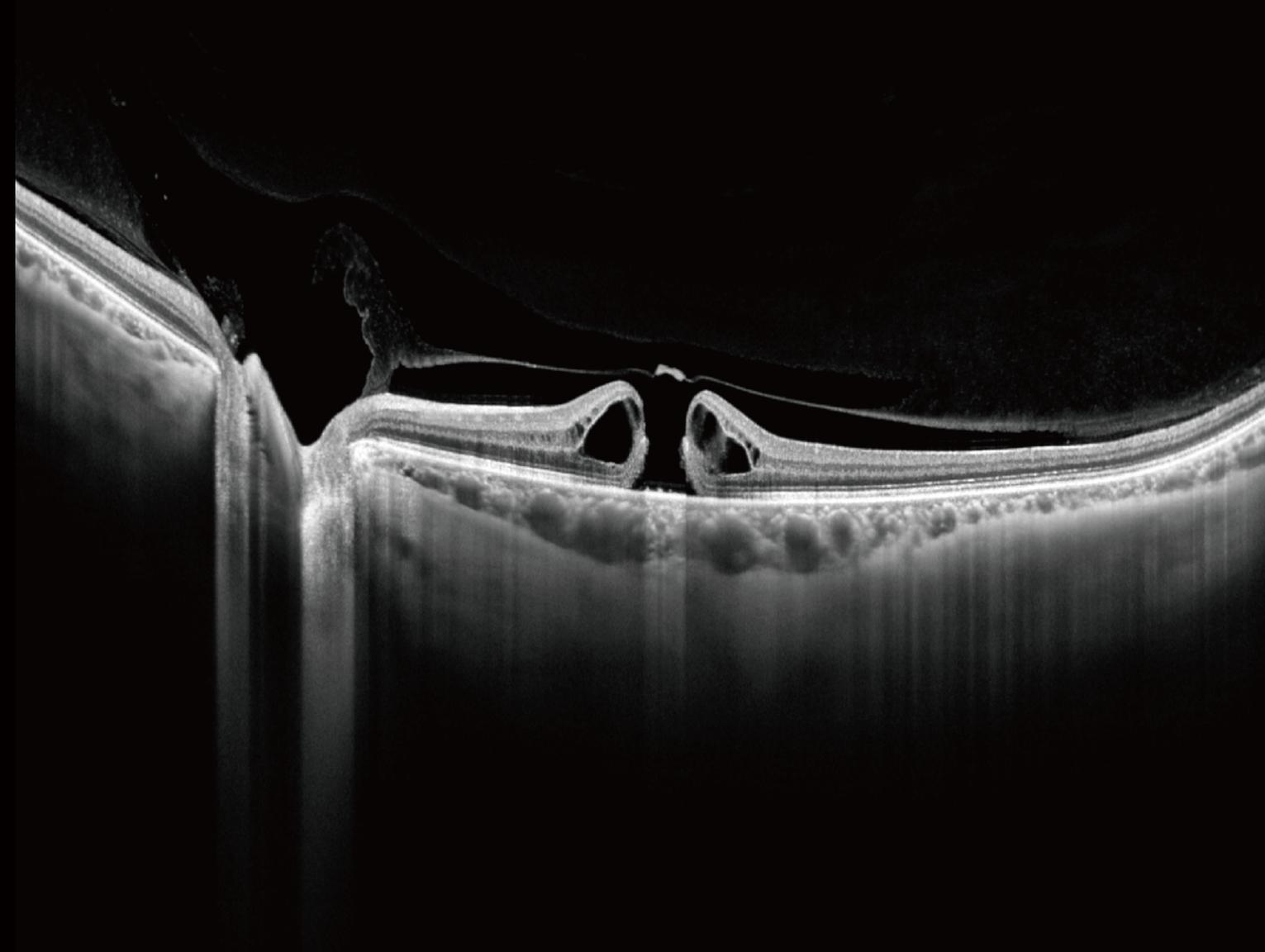
E **Extensive** scan range of
83° (16 mm × 16 mm) / 175° (34 mm × 30 mm) Montage

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

M **Multimodal** 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 9 mm for retinal imaging and 12.2 mm (in air) for anterior segment visualization.



Rapid

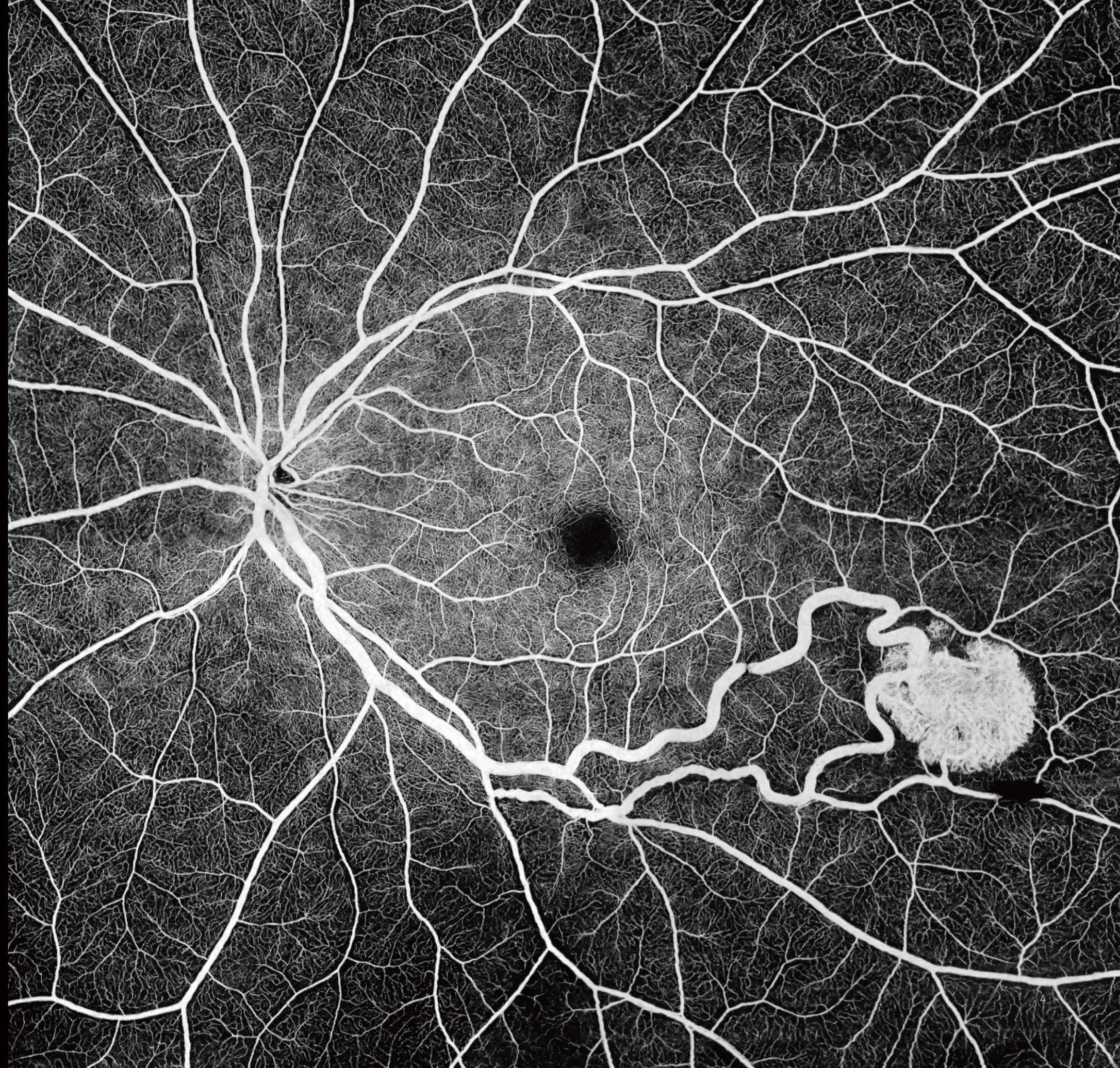
With a scan speed of up to 100 kHz, DREAM OCT® delivers enhanced performance. High speed is crucial for high-resolution OCT angiography and helps reduce artifacts caused by eye movements.

DREAM OCT® up to 100,000 A-Scans/s

SD-OCT

Extensive

With a single scan, DREAM OCT® captures a field of 83° (16 mm × 16 mm) on the retina. Its automatic montage feature extends the field even further to 175° (34 mm × 30 mm), covering beyond the posterior hemisphere and revealing peripheral retinal lesions.



Accurate

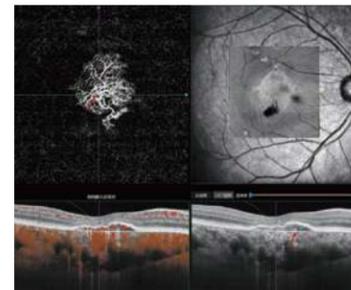
The DREAM Optical Solution offers motorized switching between anterior and posterior segment optical paths — eliminating the need for manual lens replacement. This design not only enhances imaging efficiency but also ensures precise measurement results across the entire eye.



Standard

Standard Lens

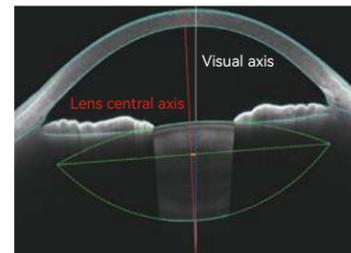
Optimized for high-resolution imaging of the macula and optic disc, providing superior image quality compared to ultra-widefield imaging.



Built-in

Anterior Segment Lens

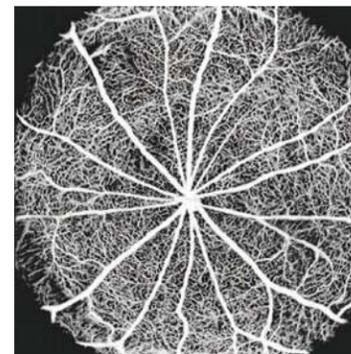
Incorporating DREAM OCT® patented design, the optical path can be electrically switched to a dedicated anterior segment mode, ensuring both imaging range and accuracy.



Add-on

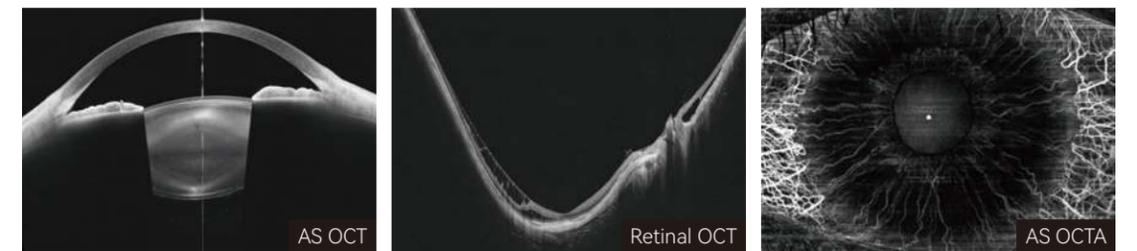
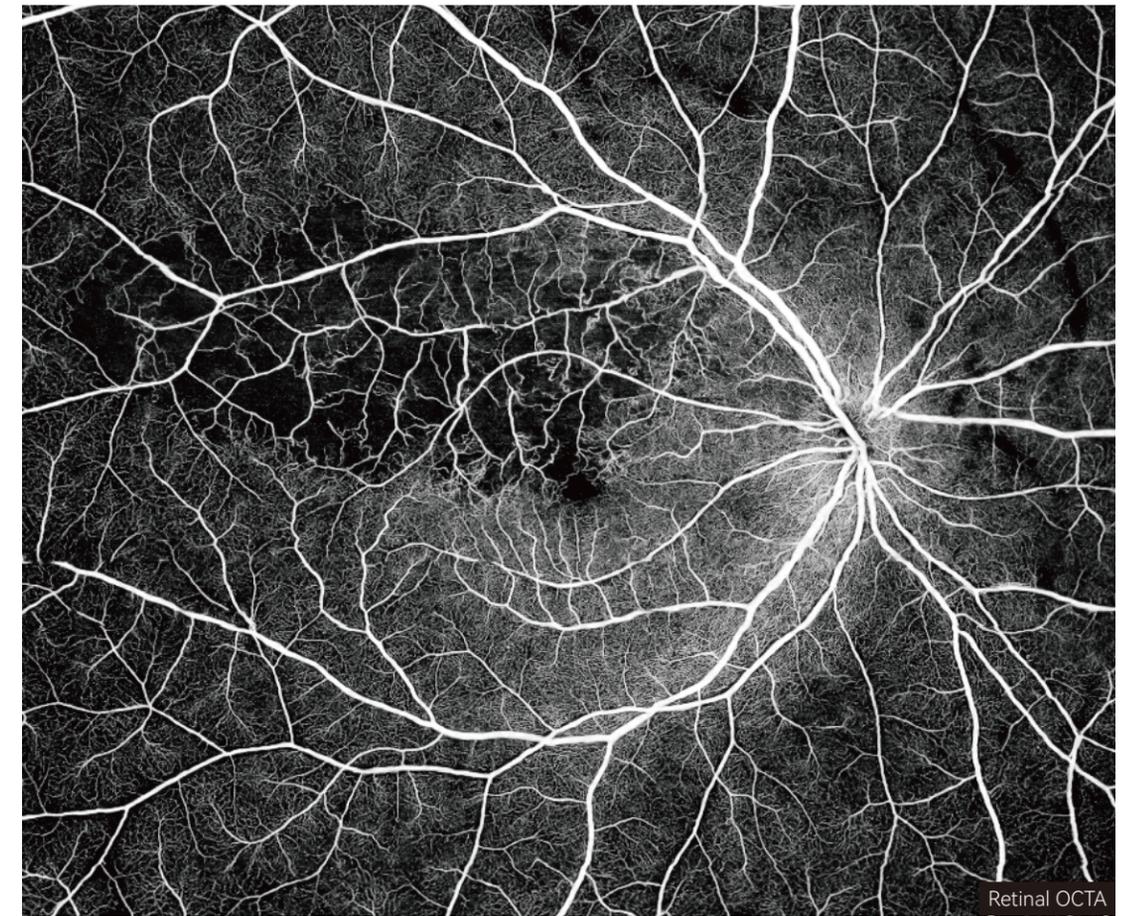
Animal Imaging Lens

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



Multimodal

DREAM OCT® integrates both anterior and posterior segment OCT and OCTA imaging in a single device, streamlining workflow and improving clinical efficiency.



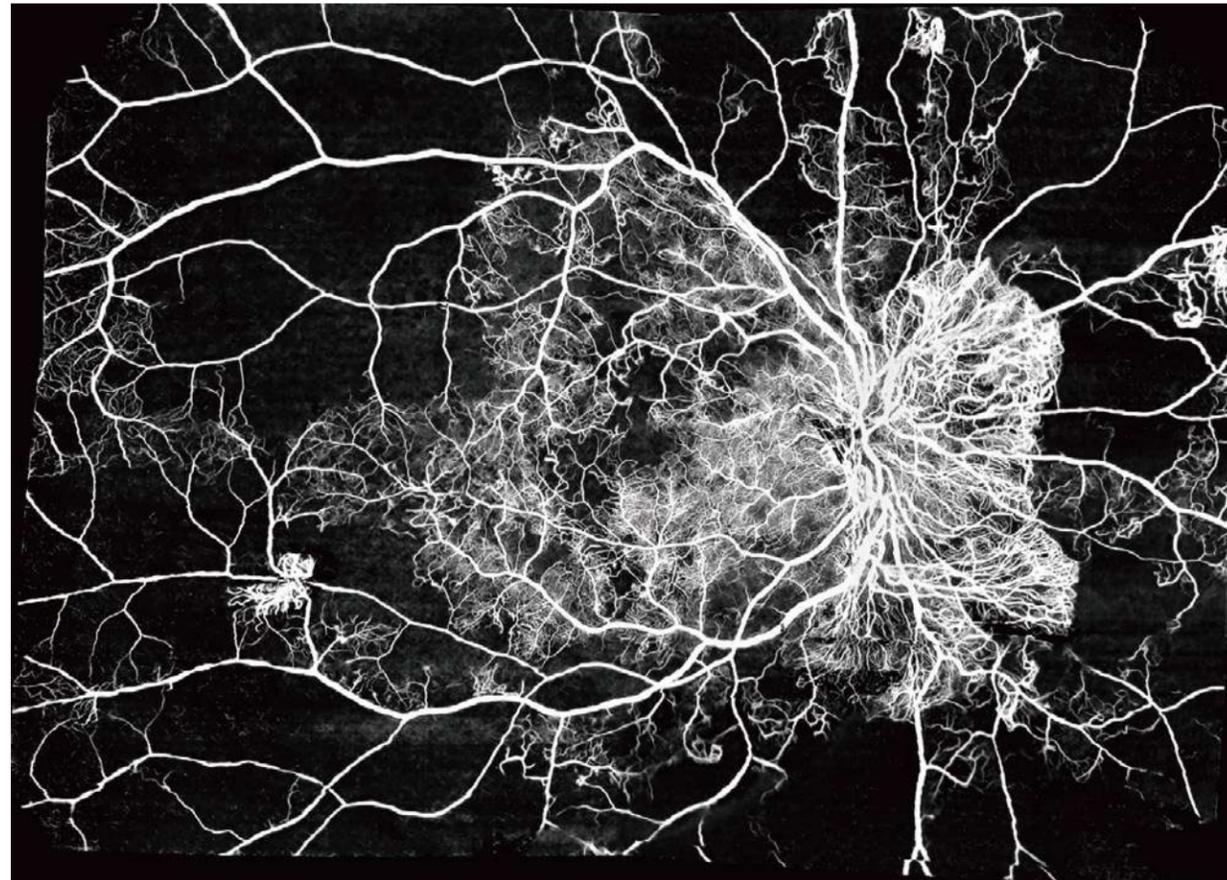
Retina & Vitreous

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 high-resolution imaging and the higher detection sensitivity could provide infinite possibilities for both clinical diagnosis and research work.

Widefield OCT Angiography

The widefield OCTA covering a range of 83° (16 mm x 16 mm) with one single scan, and the montage of over 175° (34 mm x 30 mm) 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.

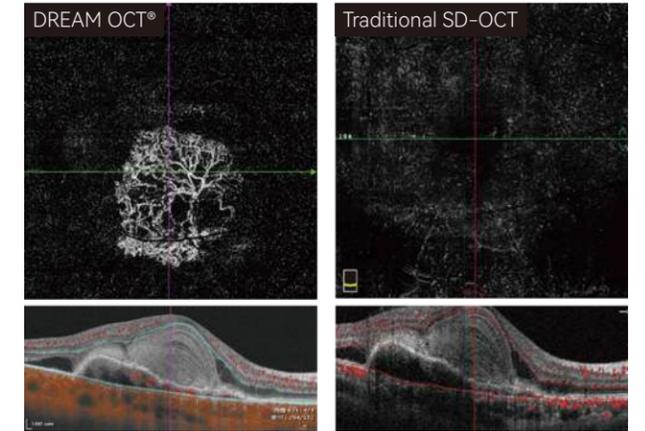


OCTA Montage

Higher Detection Sensitivity

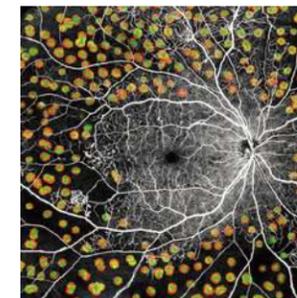
With a standard lens and the TRUE Angio™ algorithm, DREAM OCT® effortlessly penetrates ocular media opacity, delivering exceptionally clear fundus OCT images.

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

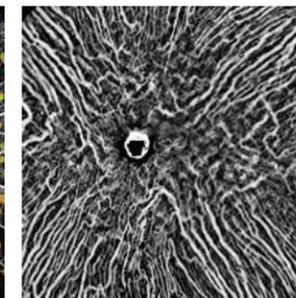


The comparison of OCTA images for a same patient on a same day. The DREAM OCT® could penetrate through the organized hemorrhage and show the details of the lesion clearly and completely, while the traditional SD-OCT could not show any abnormal flow signal at all.

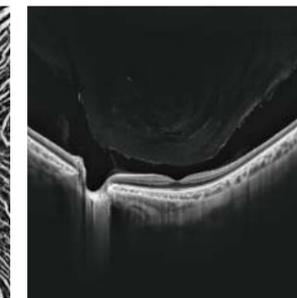
Expanded Imaging Capabilities



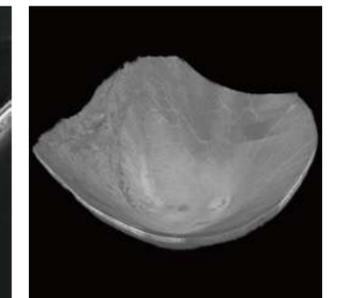
Laser Spot Detection



Choroidal vascular imaging



High-Resolution Vitreous Imaging



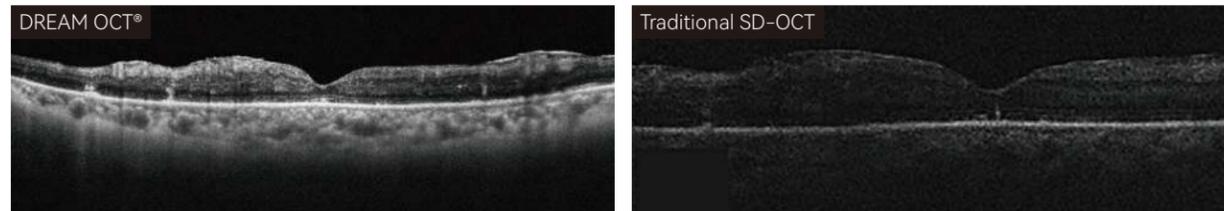
OCT 3D Display (PVD)

Cataract

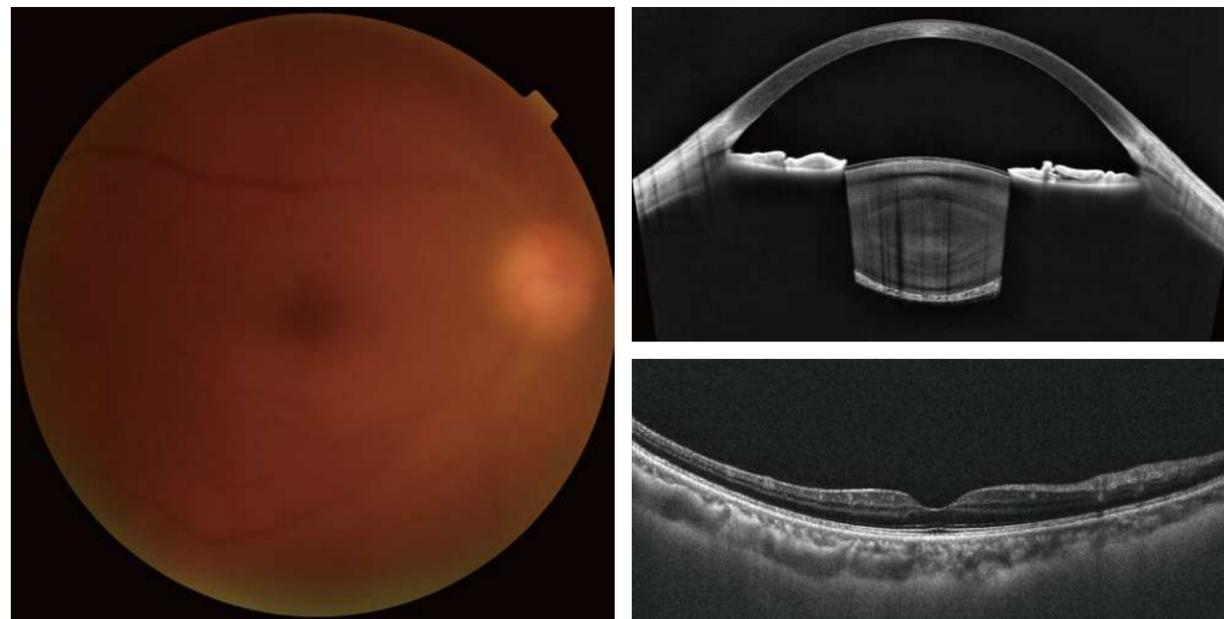
One-Stop DREAM Solution

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.



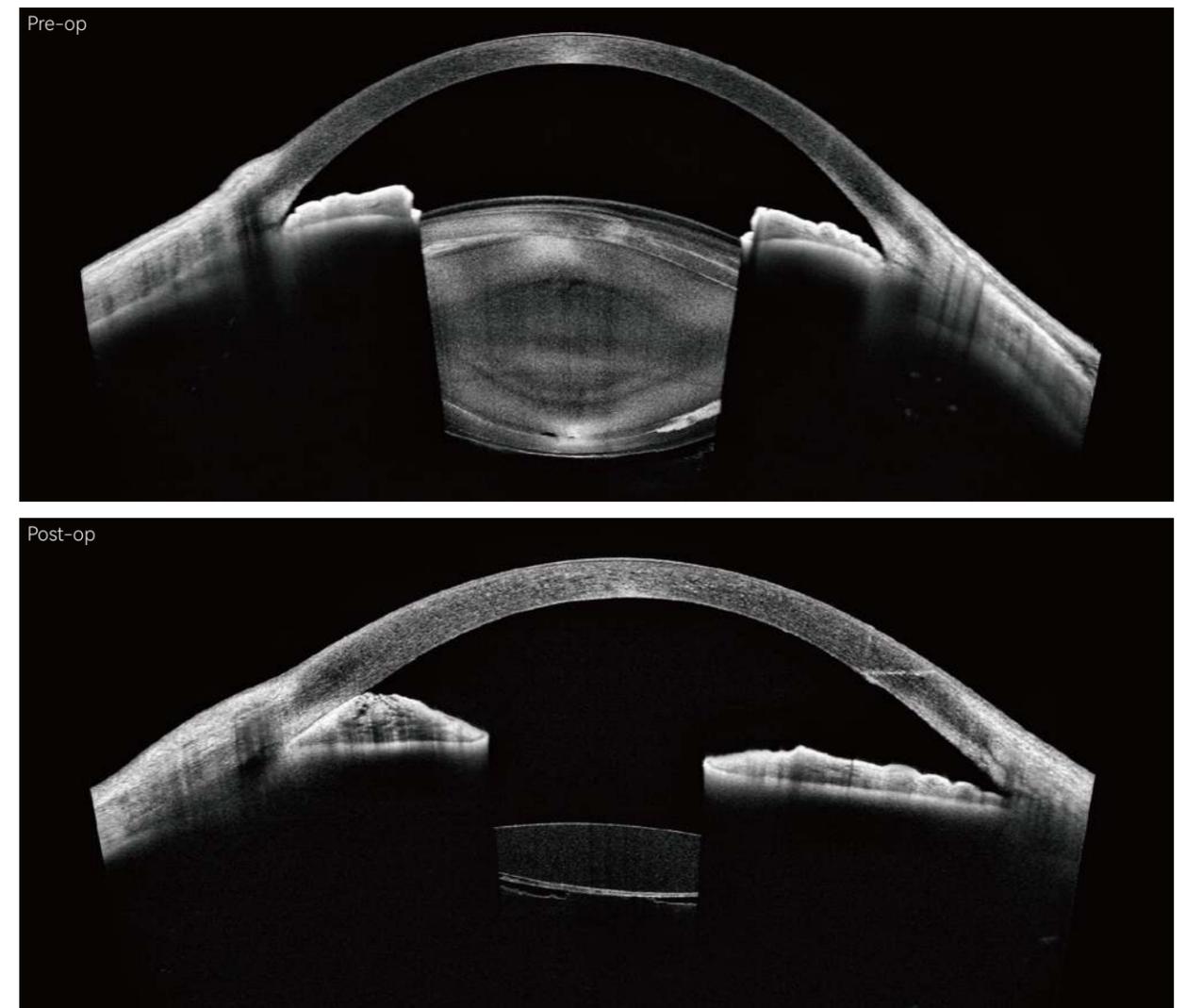
DREAM OCT® delivers clear visualization of retinal structures even when color fundus photography is significantly compromised by cataract opacity.



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.

Pre and Post operative Cataract Assessment

DREAM OCT® provides high-resolution anterior segment imaging with a scan depth of up to 12.2 mm, allowing clear visualization of the posterior capsule, corneal incision, anterior chamber angle, and anterior vitreous.

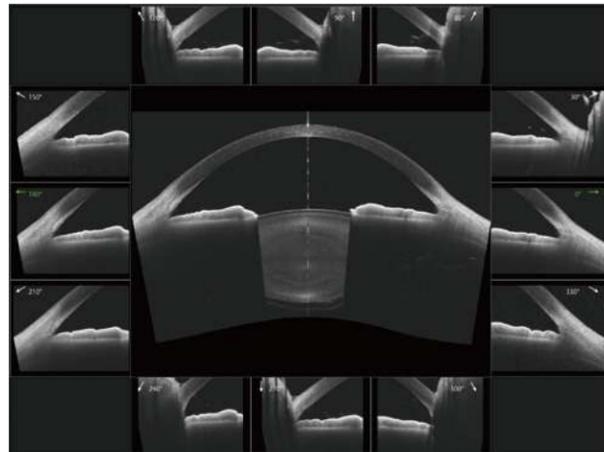


Glaucoma

One-Stop DREAM Solution

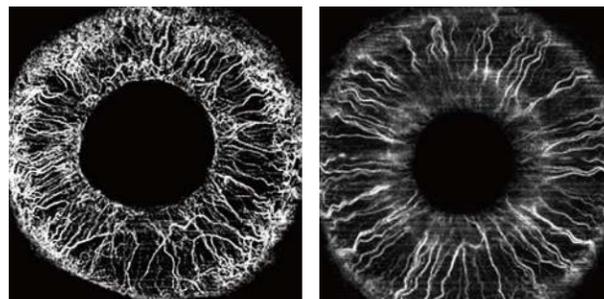
360° Anterior Chamber Angle Visualization

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.

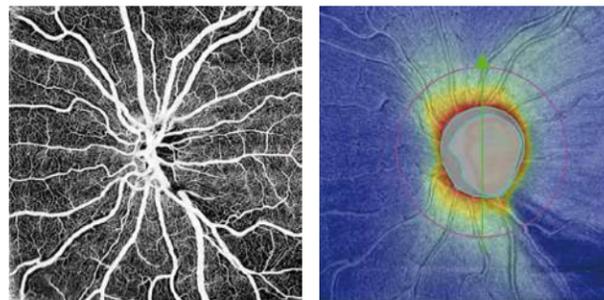


New vessels on the iris

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.

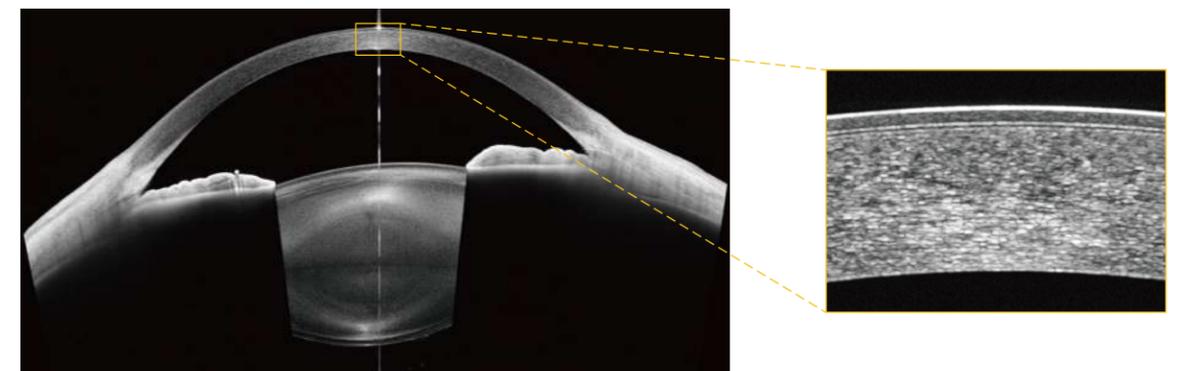


Corneal Diseases

One-Stop DREAM Solution

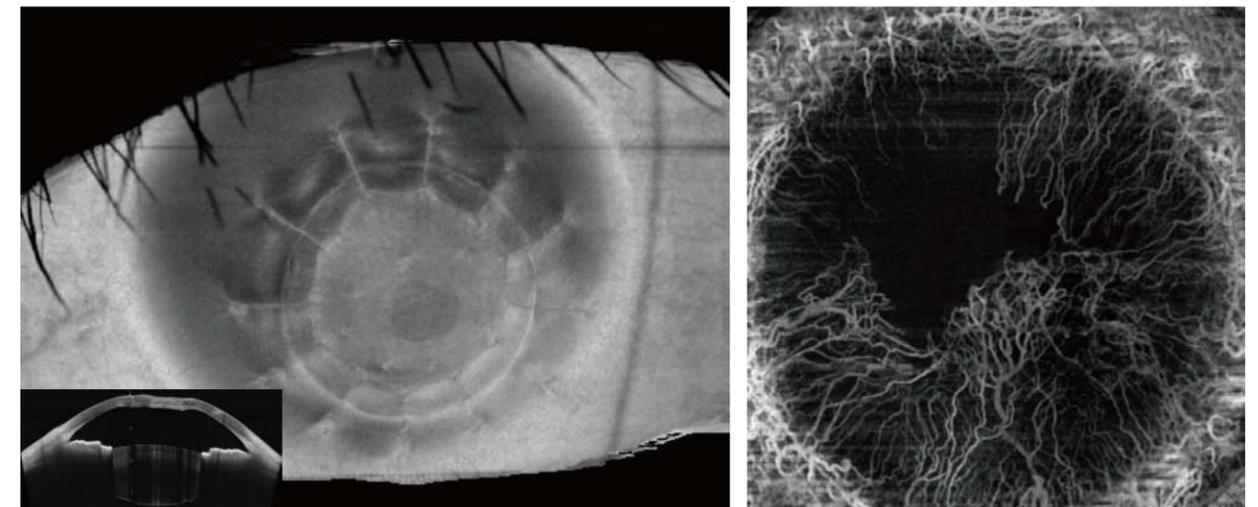
High-Resolution Anterior Corneal Imaging

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