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)	3.8 μm
	Lateral resolution (Optical)	10 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

*Some features are not available in all countries. Please check with your local distributor.

Intalight

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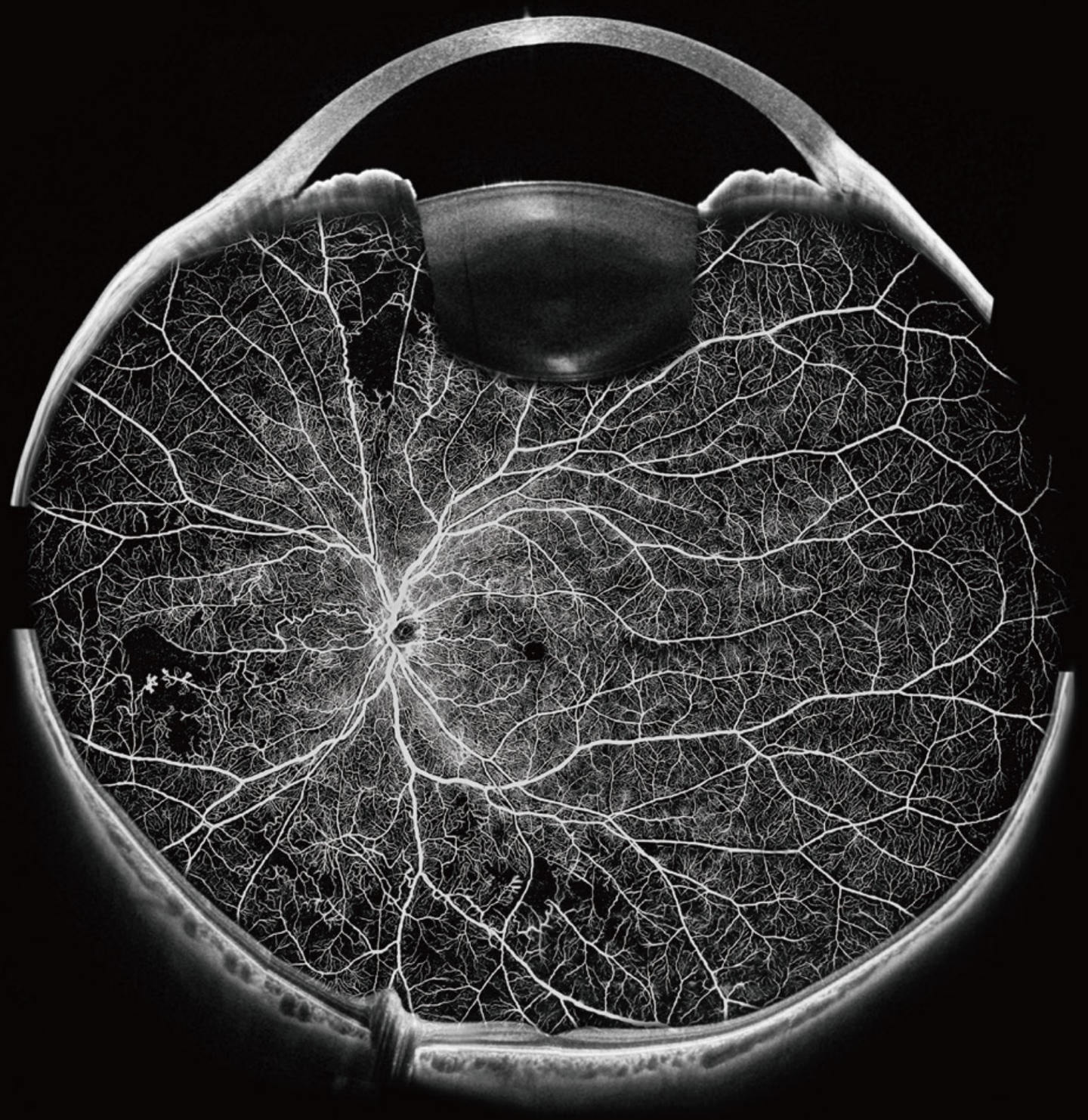
DREAM OCT®

VG 200D

CE approval is imminent

ALL IN ONE

Exploring the Whole Eye
With Precision



DREAM OCT®

The New Generation of Swept Source OCT

- **Deep**

  SuperDepth™ OCT imaging up to
  12 mm (retina) / 16.2 mm (anterior segment)

- **Rapid**

  A-scan rate of up to 200,000 Hz

- **Extensive**

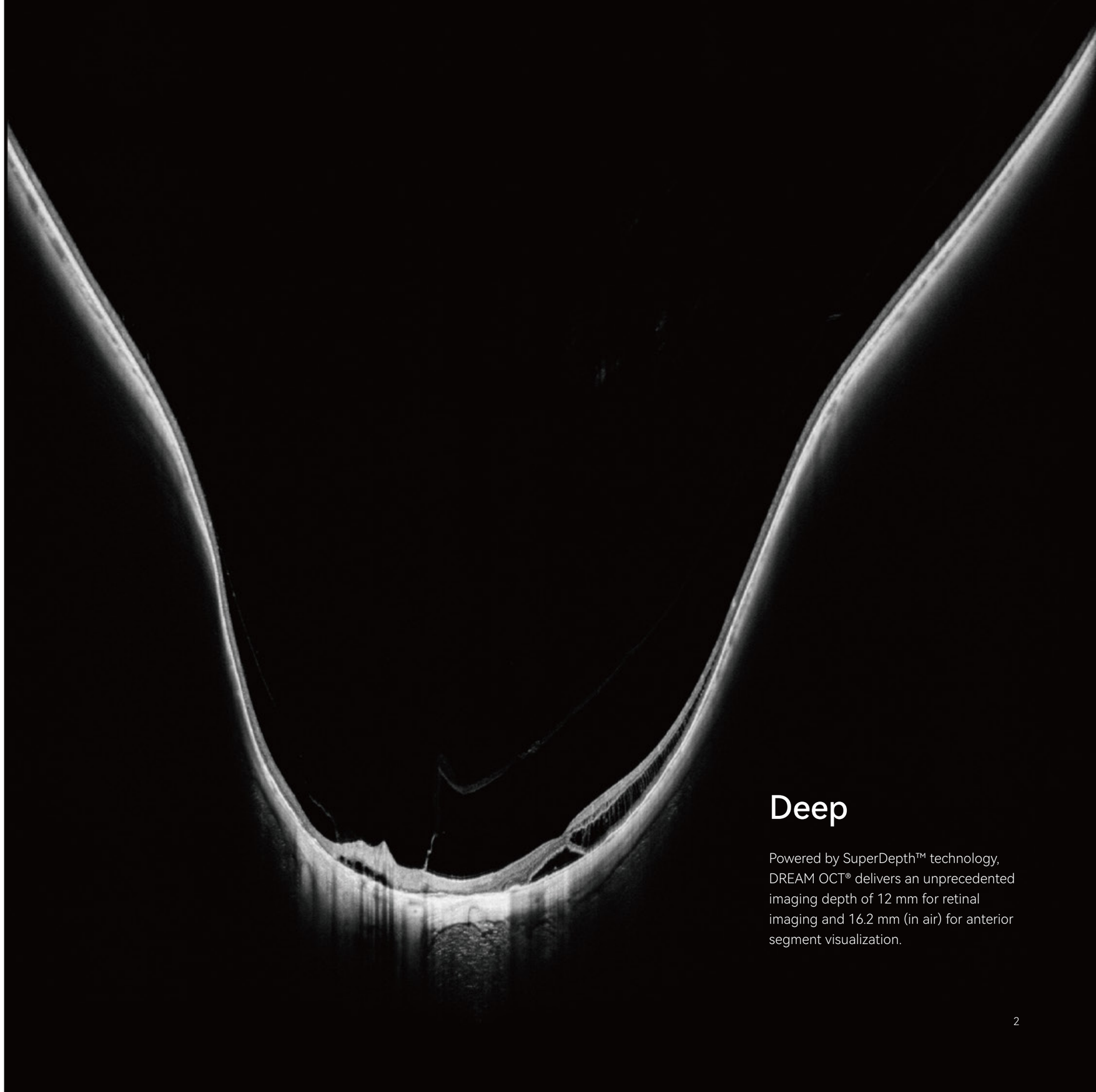
  130° (single capture) / 225° (montage)
  OCTA imaging

- **Accurate**

  Precise imaging powered by the advanced
  DREAM optical solution

- **Multimodal**

  Integrating AS-OCT/A, and retinal OCT/A



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.

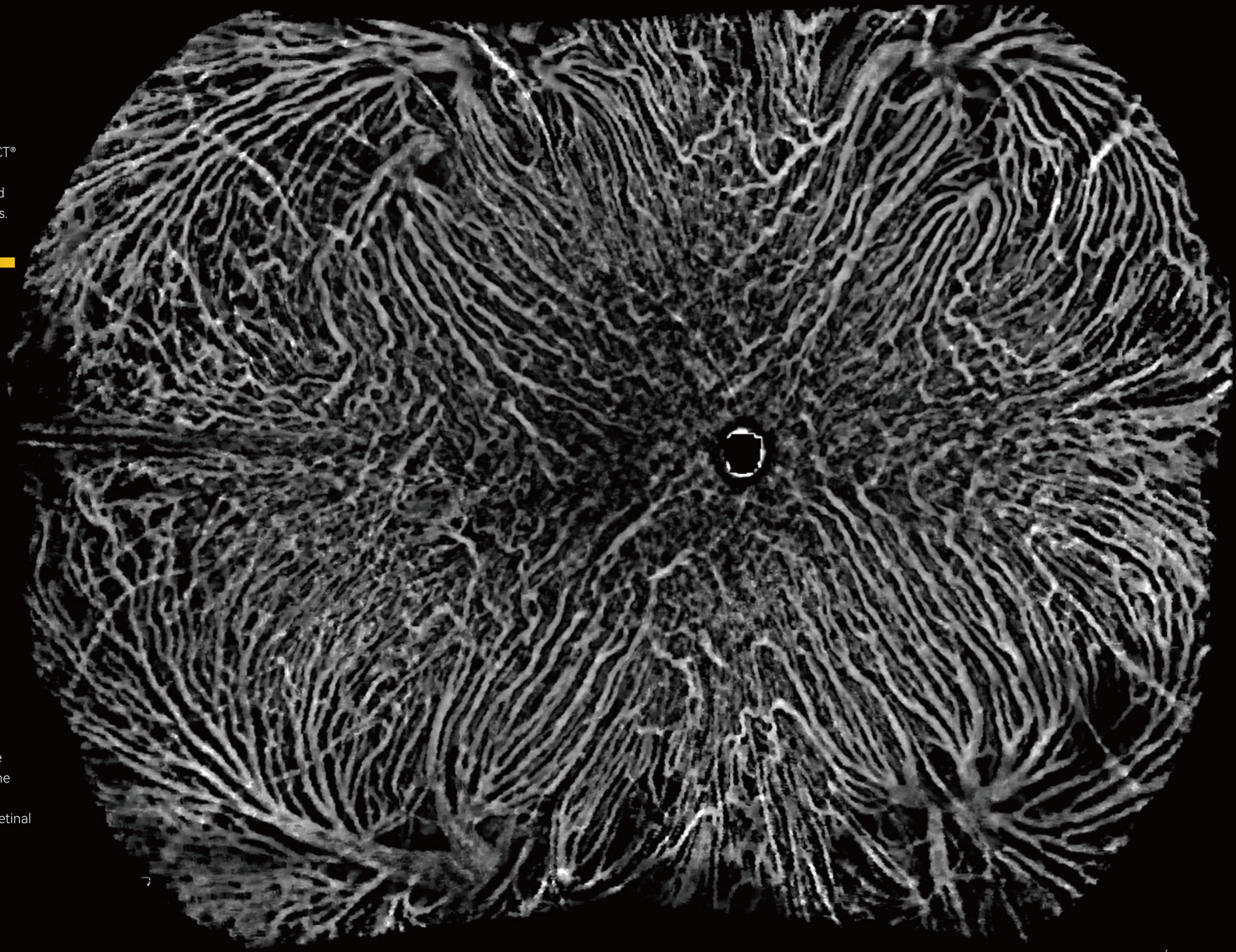
DREAM OCT® up to 200,000 A-Scans/s

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°, covering beyond the posterior hemisphere and revealing peripheral retinal lesions.



Accurate

The DREAM OCT® optical solution features a flexible lens-switching system, providing 4 distinct optical modes to optimize performance for various application scenarios.

Standard Lens

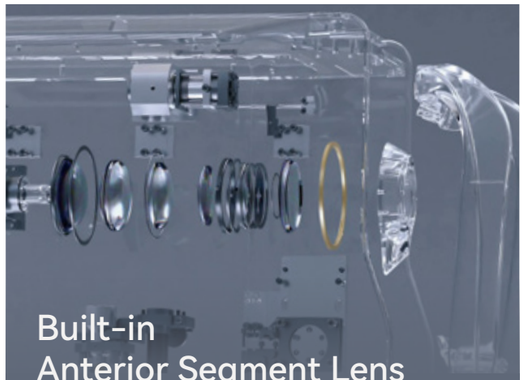
Optimized for high-resolution imaging of the macula and optic disc, providing superior image quality compared to ultra-widefield imaging.

Ultra-Widefield Lens

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

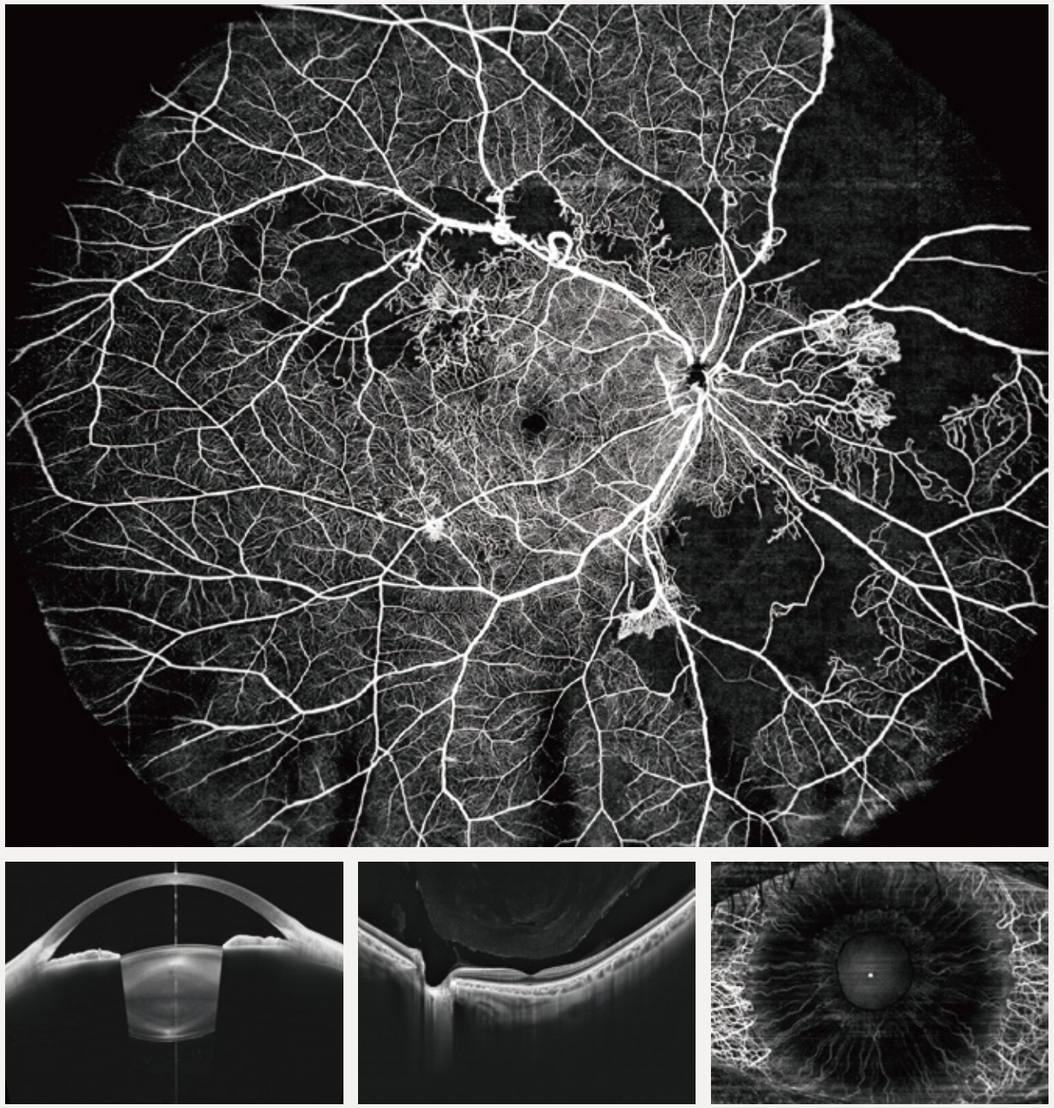
Animal Imaging Lens

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



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.



Multimodal

Powered by a cutting-edge Swept-Source OCT engine, the DREAM OCT® integrates a full suite of imaging modalities, including Retinal OCT, Retinal OCTA, AS-OCT and AS-OCTA, to meet the demands of advanced clinical and research applications.

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

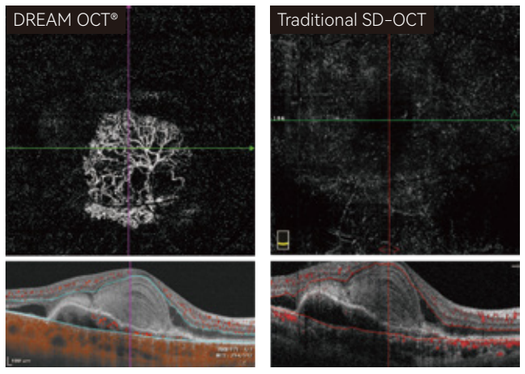
The ultra-widefield OCTA covering a range of 26 mm x 26 mm (130°) with one single scan, and the montage of over 225° field of view, could provide much more diagnostic information for diseases with extensive lesions in a non-invasive and more efficient way, compared with the fluorescence angiography.

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.

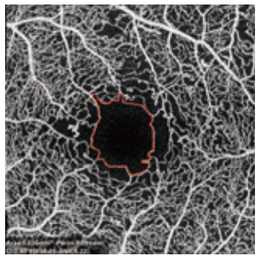


The comparison of OCTA images for a same patient on a same day. The DREAM OCT® could penetrate through the organized hemorrhage and show the details of the lesion clearly and completely, while the traditional SD-OCT could not show any abnormal flow signal at all.

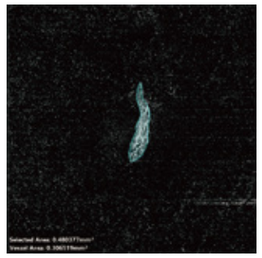
Various and Accurate Quantitative Analysis

The DREAM high-resolution OCTA ensures the accuracy of flow quantitative analysis. The software provides automatic measurements for FAZ, vessel density, flow area, etc. Moreover, it can also provide the choroidal vessel volume (CVV) and the choroidal vessel index (CVI), which could be very helpful for your research work on choroid.

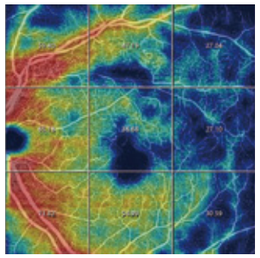
All kinds of quantitative analysis could be precisely corrected based on the biometric data acquired by the DREAM OCT®, in order to ensure the academic rigor of the research work.



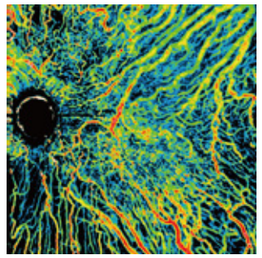
FAZ measurements



Flow area



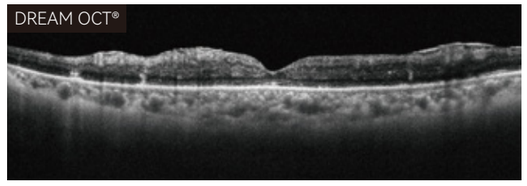
Vessel density

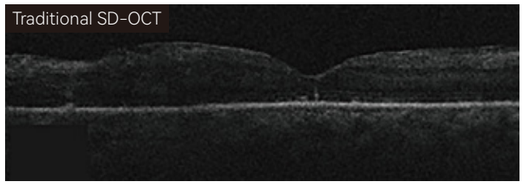


CVV & CVI

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.





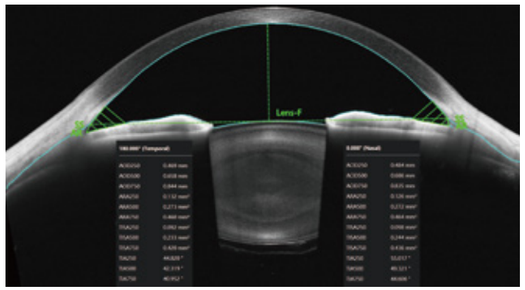
ACA & ONH

One-Stop DREAM Solution

The various kinds of quantitative analysis provided by the DREAM OCT®, such as measurements for ACA, RNFL, GCC, as well as the ONH vessel density, could be very helpful for screening and monitoring. Meanwhile, the AS-OCTA could be a convenient and intuitive tool for clinical assessment.

Automatic Measurements for 360° Anterior Chamber Angle

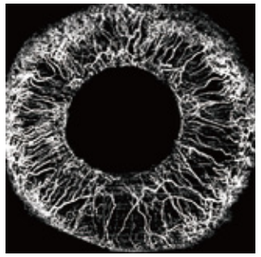
Based on AI identification for some anatomical structures such as scleral spur, the DREAM OCT® could provide automatic measurements for anterior chamber angle, including AOD, ARA, TISA, TIA, etc., to achieve a non-contact rapid assessment.



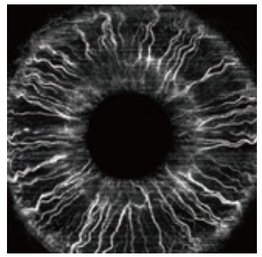
Automatic measurements for anterior chamber angle

High-resolution AS-OCTA

With the help of "Deep Layer" AI segmentation, the DREAM OCT® could easily clarify the vessels around the limbus, and show new vessels on the iris very clearly. In addition, the DREAM Swept-Source engine could penetrate through the dense pigment on iris much more easily, visualizing the iris flow much more clearly than ever before.



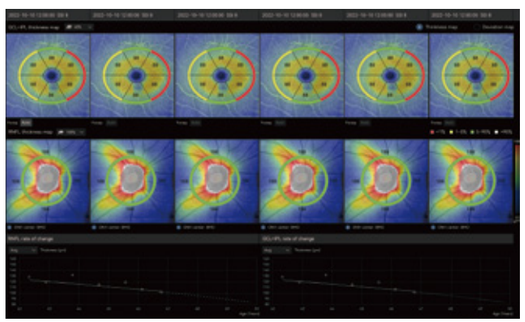
New vessels on the iris



AS-OCTA of normal iris

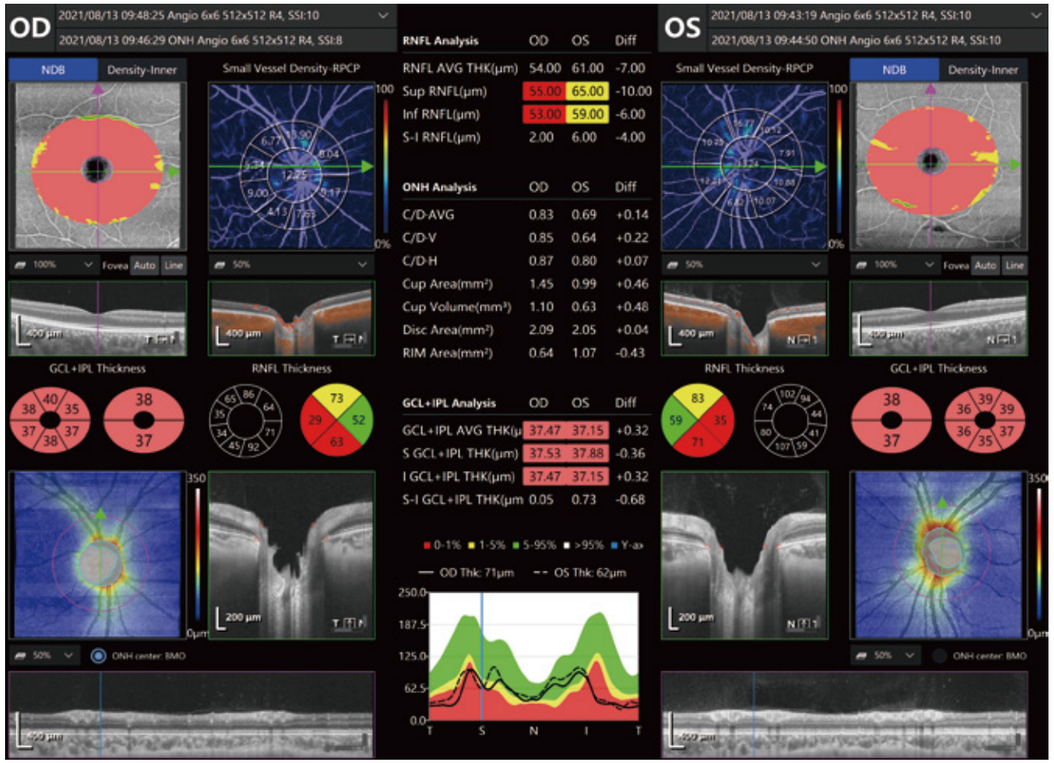
Glaucoma Progression Analysis

Through multiple follow-up examinations, the trend of RNFL and GCC thickness changes can be tracked to assess the progression of glaucoma.



Comprehensive Glaucoma Analysis

The Comprehensive Glaucoma Analysis provides overview of RNFL and GCC thickness values alongside RDB references. Combined with ONH OCTA images, it delivers more comprehensive diagnostic information.



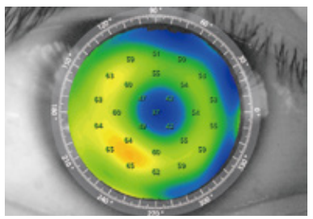
Anterior Segment

One-Stop DREAM Solution

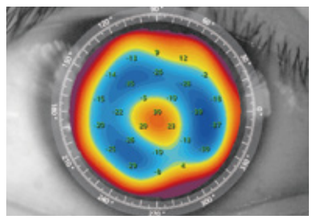
The DREAM OCT® could acquire the corneal curvatures for both anterior and posterior surfaces, the topography of corneal epithelium, the axial length, AS-OCT images and associated measurements on only one device, providing accurate and reliable data for refractive surgeries, contact lens treatment, and ICL implantation.

Screening before Refractive Surgeries

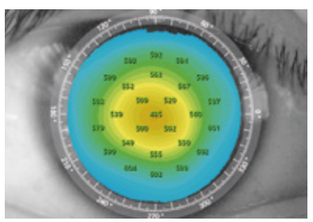
The DREAM OCT® could provide not only the corneal thickness topography, the corneal curvature diagram, the corneal height diagram for both anterior and posterior surfaces, but also the corneal epithelial thickness topography. So that we could do comprehensive screening for corneal condition, which is very important for the assessment before refractive surgeries.



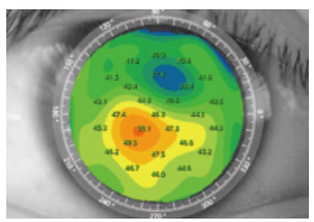
Corneal epithelial thickness topography



Corneal height diagram of posterior surface



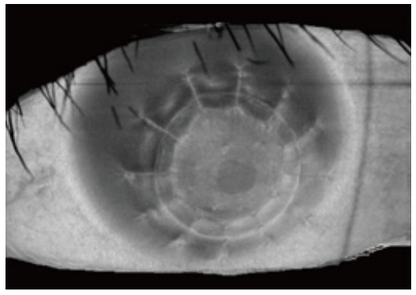
Corneal thickness topography

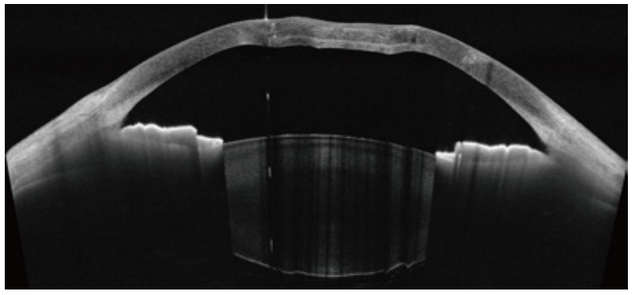


Corneal curvature diagram

3D Multi-Dimensional Anterior Segment Imaging

The DREAM OCT® enables comprehensive 3D imaging of the anterior segment, allowing multi-dimensional observation of lesions from both cross-sectional and en face views. This provides a more complete and detailed visualization of the anterior segment, enhancing diagnostic accuracy and clinical assessment.

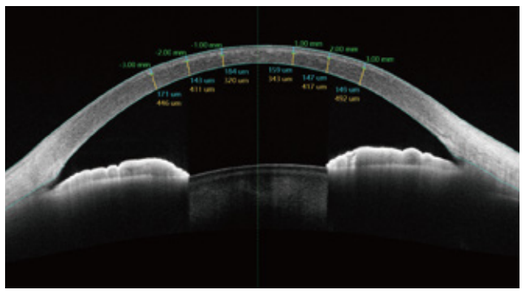




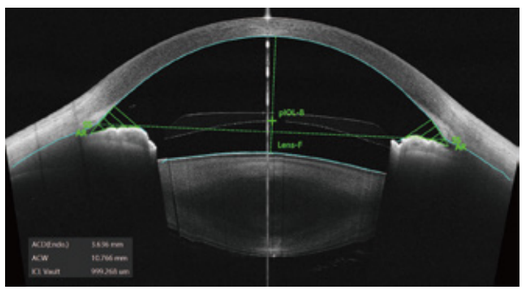
Post-corneal transplant OCT & en face OCT

Automatic Measurements for AS-OCT

The DREAM OCT® could automatically identify many structures such as the scleral spur, and measure the anterior chamber depth, ICL vault, corneal flap thickness, etc., in order to assess the effect of refractive surgeries objectively.



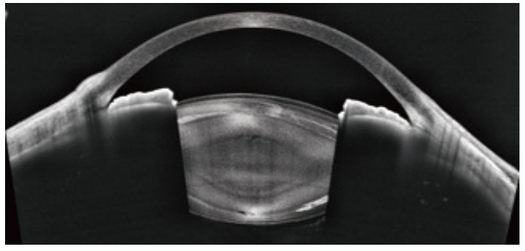
Corneal flap thickness measurements after LASIK



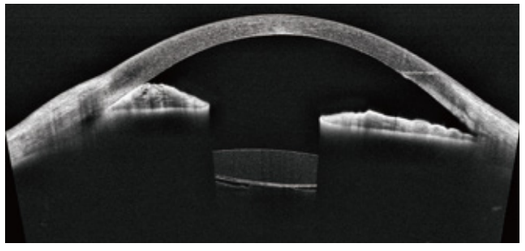
ACD and vault measurements after ICL implantation

Super Depth of AS-OCT Imaging Helps Make Surgical Plans and Assess the Results

The DREAM OCT® could achieve a deepest imaging depth of 16.2mm (in air) for the high-resolution AS-OCT images, which can clearly show the corneal incision, the anterior chamber angles, the lens posterior capsule, and the anterior vitreous with only one B-scan, providing a visualized monitoring tool for perioperative management, surgical planning and effect assessment.



Pre-surgical examination: AS-OCT shows higher reflective signals of the lens cortex.



Post-surgical follow-up: AS-OCT shows the corneal incision, closed ACA, and close attachment between the IOL and the posterior capsule.