

Intalight

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in Intalight

DREAM OCT

● The New Generation of Swept Source OCT



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CE and FDA approval is pending.

Intalight

ALL IN ONE

Exploring the Whole Eye



Retinal OCT



Retinal OCTA



AS-OCT



AS-OCTA



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**

Over 200° ultra-wide field OCTA imaging

- **Accurate**

TRUE Angio™ algorithm ensures the reliability of OCTA

- **Multimodal**

Retinal OCT & OCTA with AS OCT & OCTA



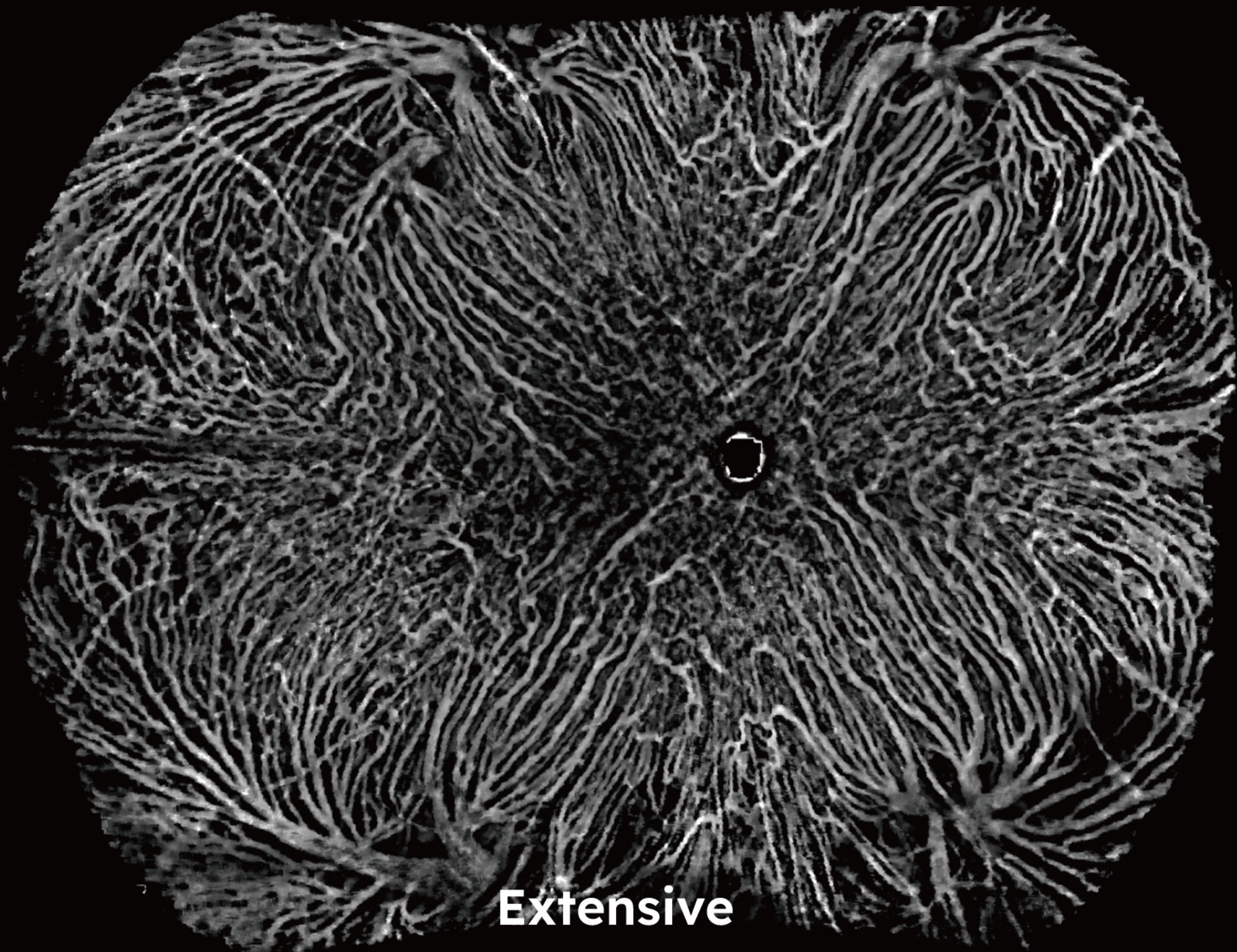
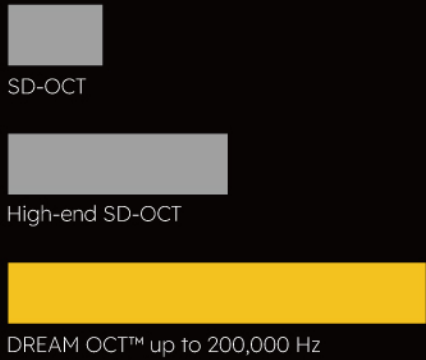
Deep

Based on Swept-Source OCT and an proprietary system, DREAM OCT™ can achieve an unprecedented imaging depth of 12 mm (in tissue) for retina imaging and 16.2 mm (in air) for anterior segment.

Rapid

With a scan speed up to 200KHz, DREAM OCT™ is faster than ever before. The high speed is crucial in high resolution OCT Angiography and eliminate the artefact caused by eye motions.

Comparison of Scan Speed



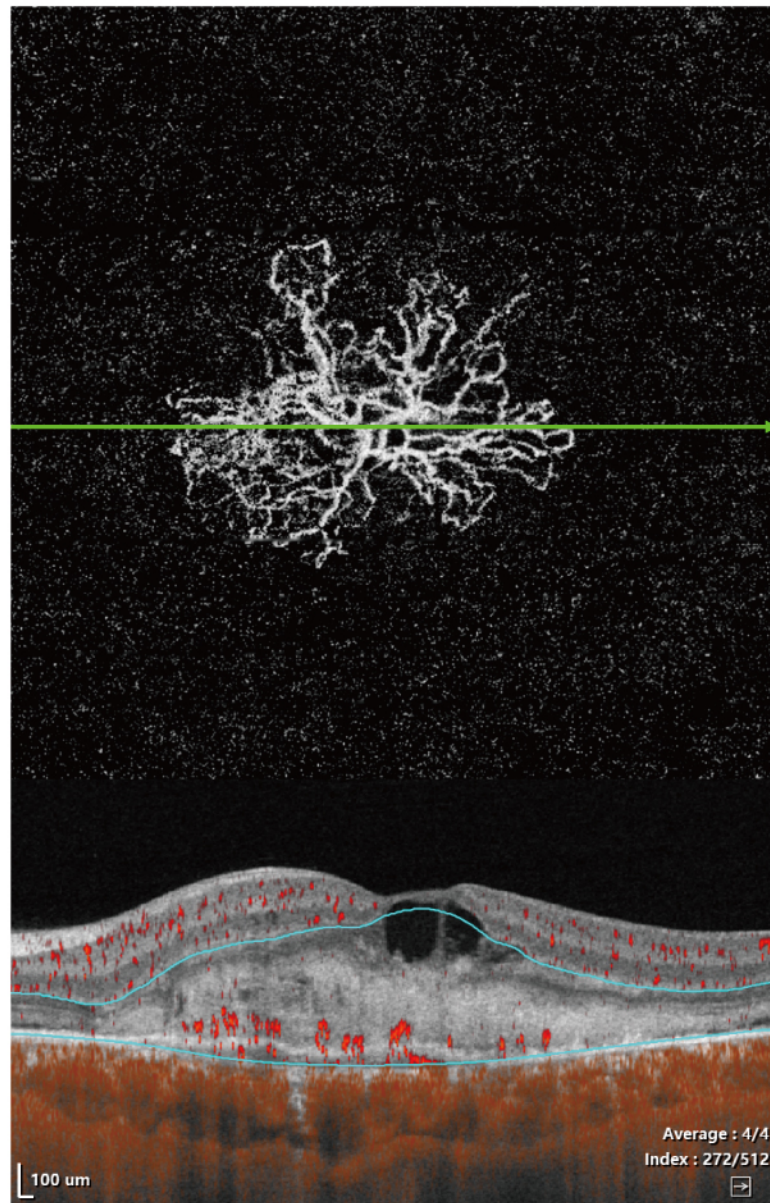
Extensive

DREAM OCT™ is able to cover an ultrawide field of 26 mm × 21mm (inner angle 130°) on retina with a single scan. An automatic montage can further extend the range to 200°, going beyond the entire posterior hemisphere and uncovering lesions toward the edge of retina.

Accurate

DREAM OCT™ is capable of detecting tiny nascent vascular pathologies while maintaining a low false positive rate.

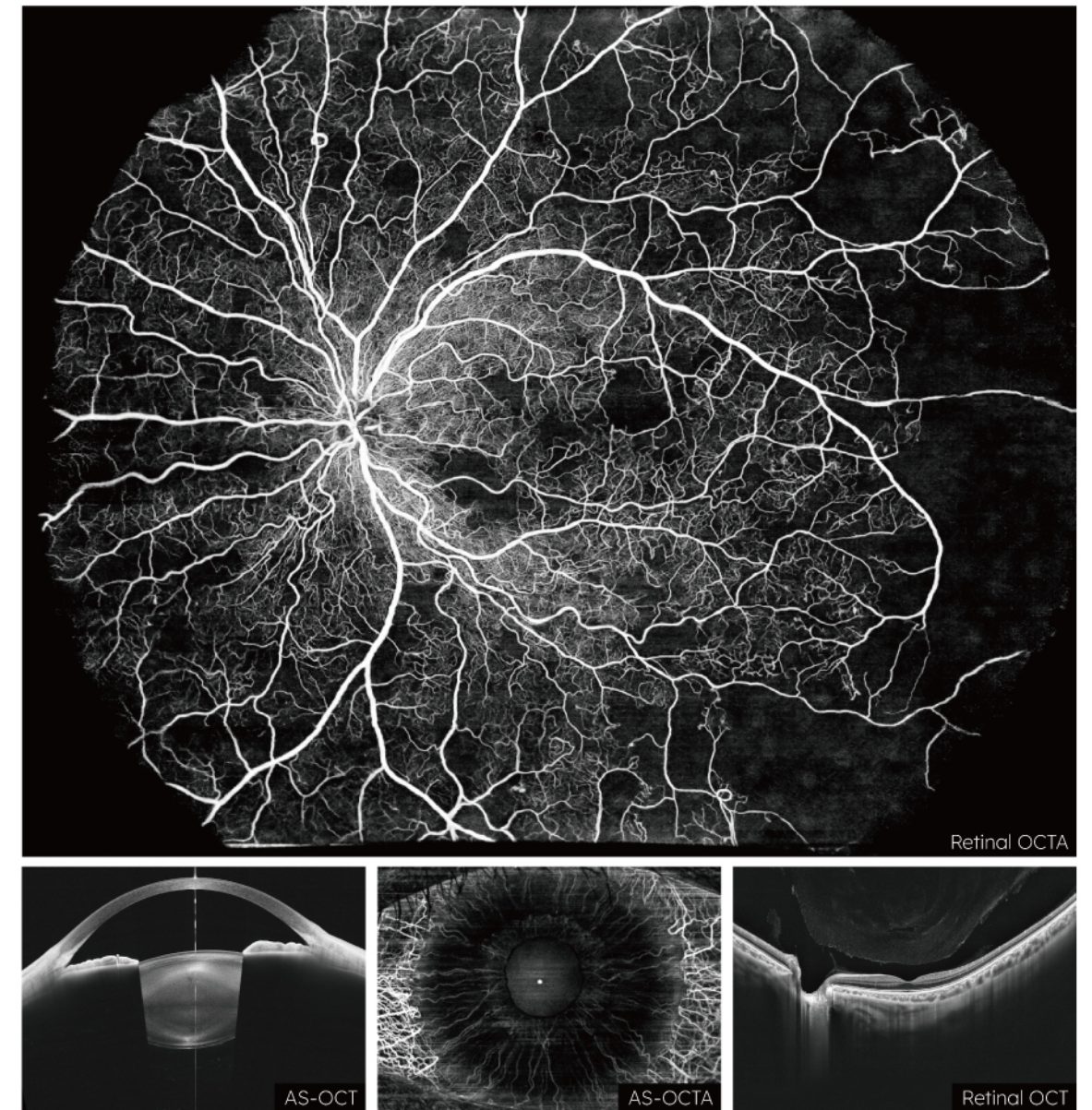
The proprietary algorithm of TRUE Angio™ enables a high detection sensitivity of subtle flow signals. 3D Projection Artefact Removal and AI-based Deep Layer™ algorithms further help to reduce artefacts to reveal true lesions.



Multimodal

Powered by a state-of-the-art Swept-Source OCT engine, the DREAM OCTm integrates a full set of imaging modalities including Retinal OCT, Retinal OCTA, AS-OCT, and AS-OCTA for the most challenging clinical and research applications.

The combination of different modalities does not have to compromise each modality's individual performance. Instead, they work together to collaboratively achieve functions that were impossible before.



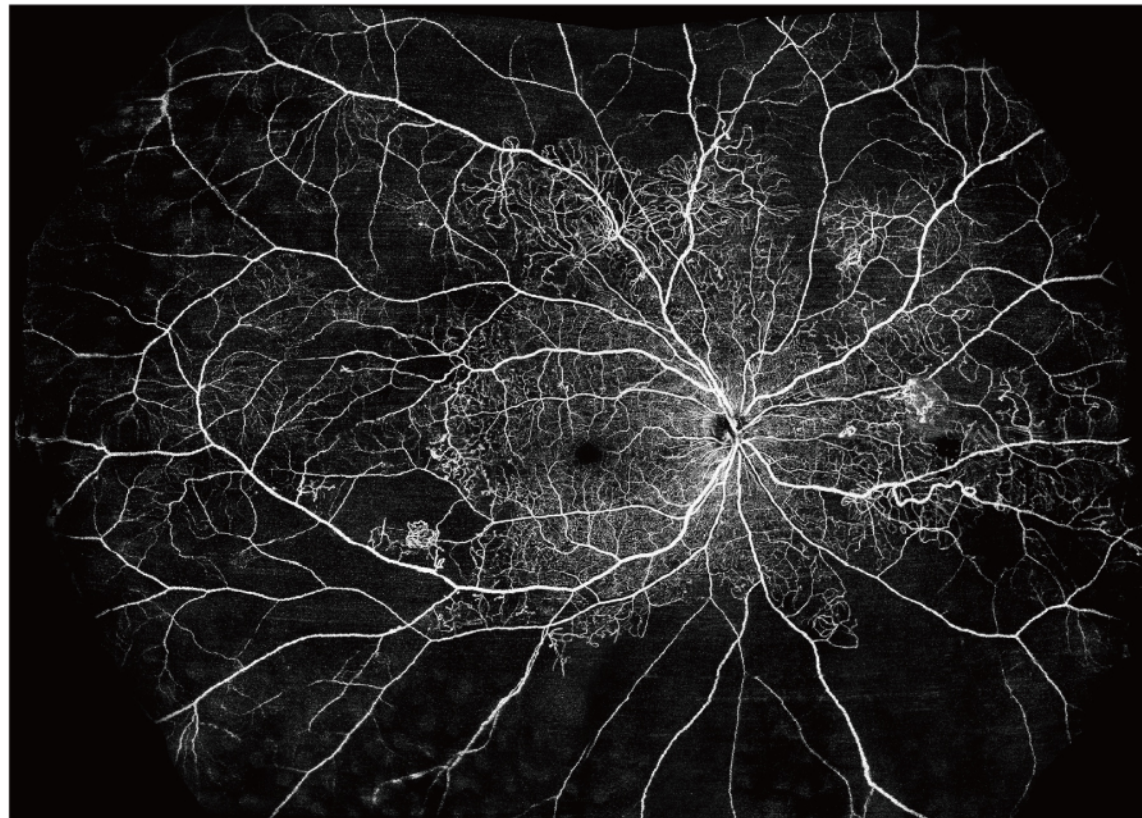
ONE-STOP DREAM SOLUTION

Retina & Vitreous

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

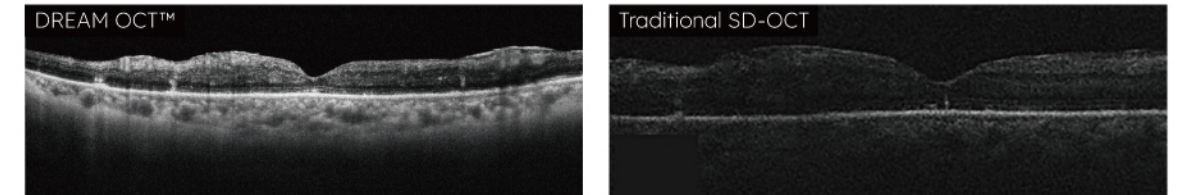
The ultra-widefield OCTA covering a range of 26 mm × 21 mm (130°) with one single scan, and the montage of over 200° field of view, could provide much more diagnostic information for diseases with extensive lesions in a non-invasive and more efficient way, compared with the fluorescence angiography.



200° montage of ultra-widefield OCTA

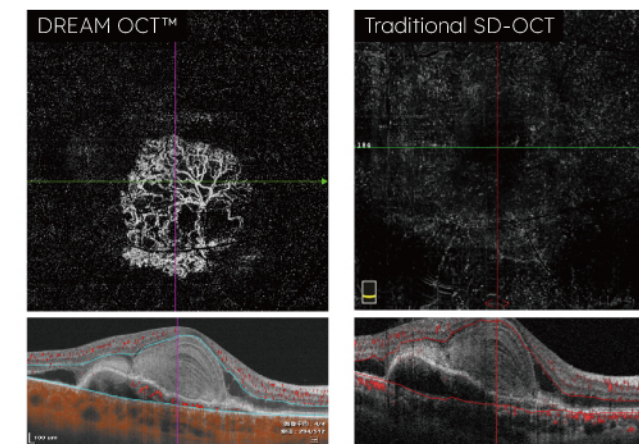
● Higher Success Rate of Retinal OCT Scanning for Patients with Ocular Media Opacity

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.



● Higher Detection Sensitivity

Based on the strong penetrating power of the Swept-Source laser, and the optimized “TRUE Angio™” algorithm, as well as the unique “Deep Layer” AI segmentation solution, the DREAM OCT™ could show much higher detection sensitivity for nascent tiny pathologies and complicated lesions, greatly reducing misdiagnosis.



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.

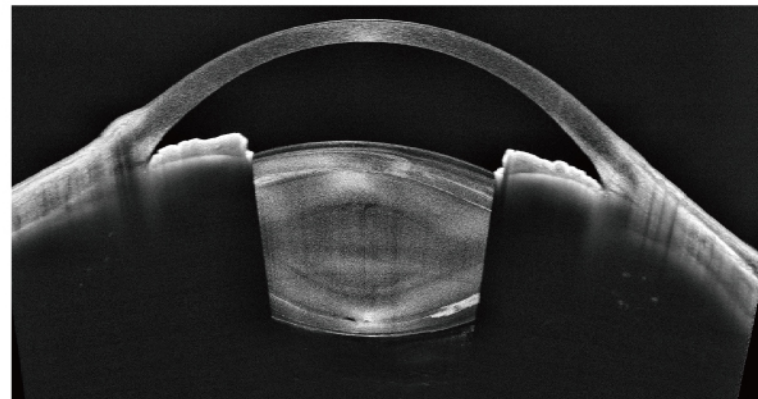
ONE-STOP DREAM SOLUTION

Anterior Segment *Not available in all countries.

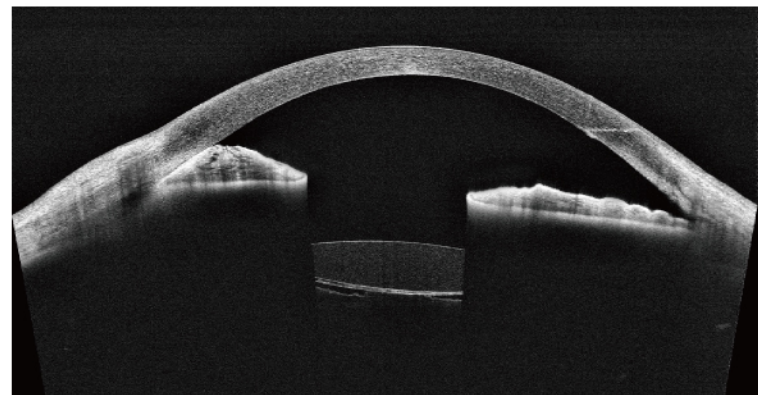
The DREAM OCT™ could acquire the corneal curvatures for both anterior and posterior surfaces, the topography of corneal epithelium, the axial length, AS-OCT images and associated measurements on only one device, providing accurate and reliable data for refractive surgeries, contact lens treatment, and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

● 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.

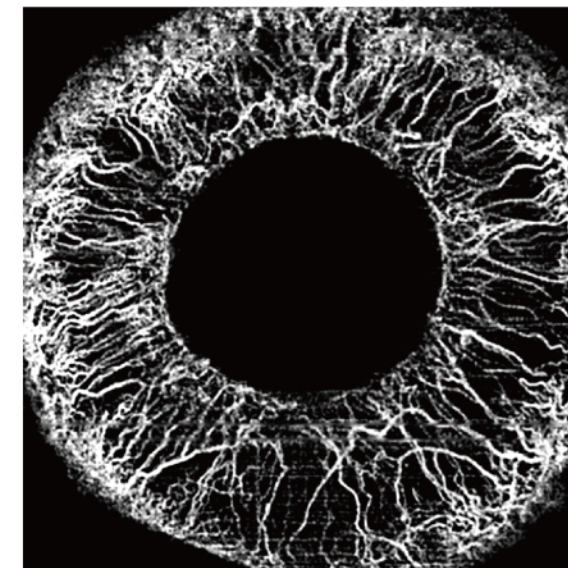
ONE-STOP DREAM SOLUTION

ACA & ONH *Not available in all countries.

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.

● 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.

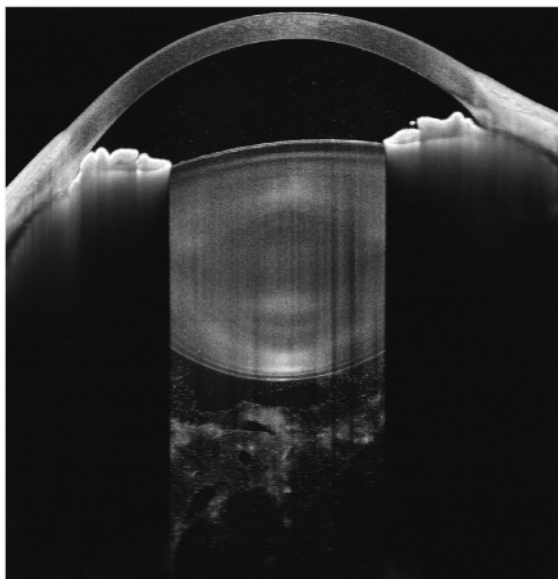


New vessels on the iris



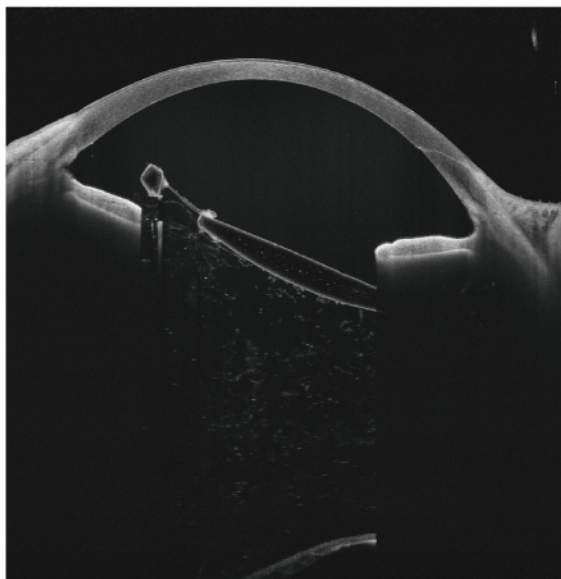
AS-OCTA of normal iris

● Gallery



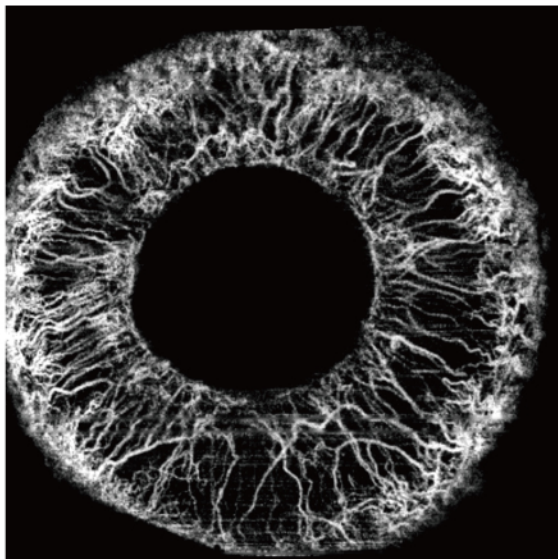
Super Depth™ Anterior Segment

Courtesy of Prof. Xiaoxin Li, Xiamen Eye Center of Xiamen University



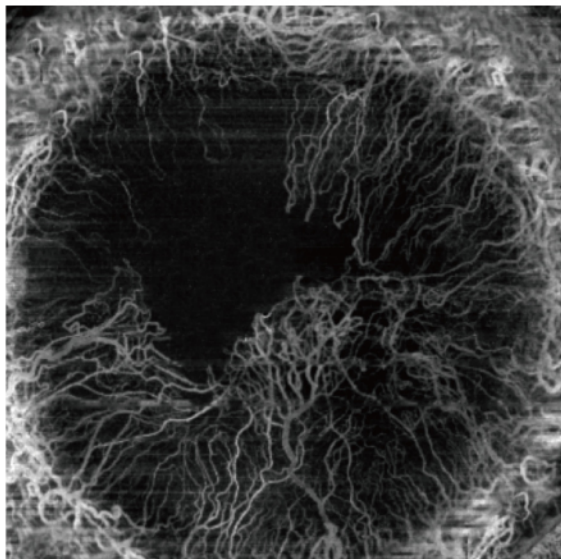
IOL dislocation

Courtesy of Prof. Ke Hu, the First Affiliated of Chongqing Medical University



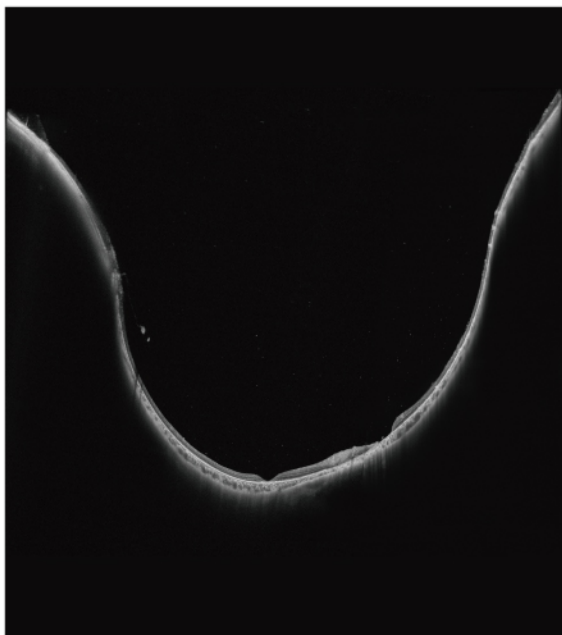
Iris Neovascularization

Courtesy of Prof. Xiulan Zhang, Zhongshan Ophthalmic Center, Sun Yat-sen University



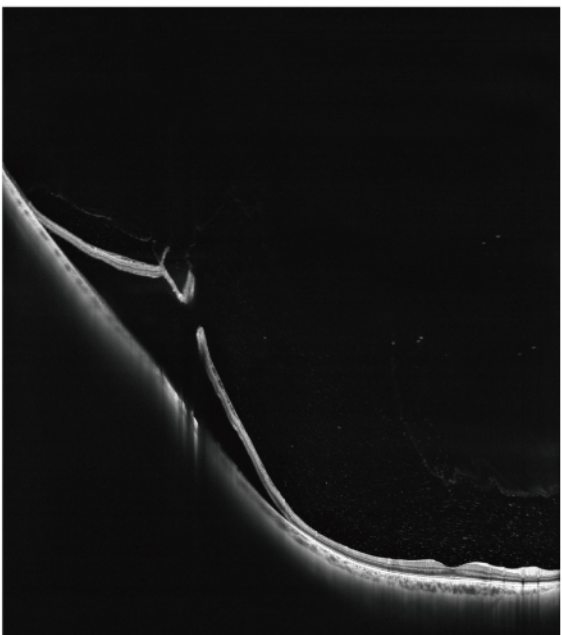
Corneal Neovascularization

Courtesy of Beijing Ai'er Yingzhi Eye Hospital



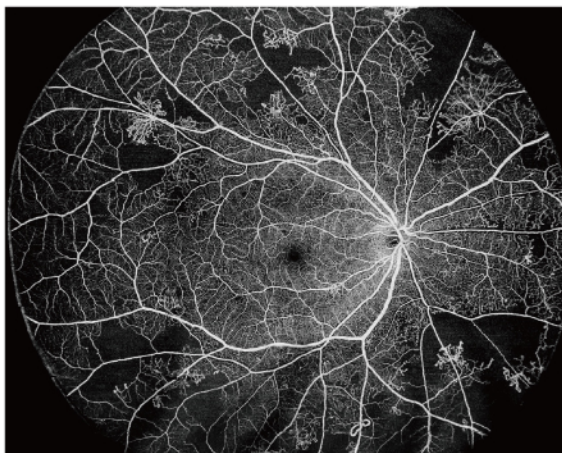
Post Scleral Buckling Surgery

Courtesy of Prof. Xuemin Jin, the First Affiliated Hospital of Zhengzhou University



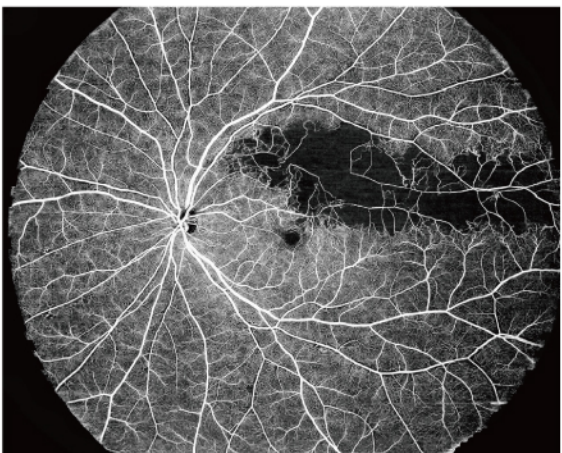
Rhegmatogenous Retinal Detachment

Courtesy of the Second Affiliated Hospital of Xi'an Jiaotong University



PDR

Courtesy of Prof. Youxin Chen, Peking Union Hospital



BRVO

Courtesy of Kunming Ai'er Yingzhi Eye Hospital