Офтальмологическое оборудование Xephilio

Описание

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Xephilio OCT-S1

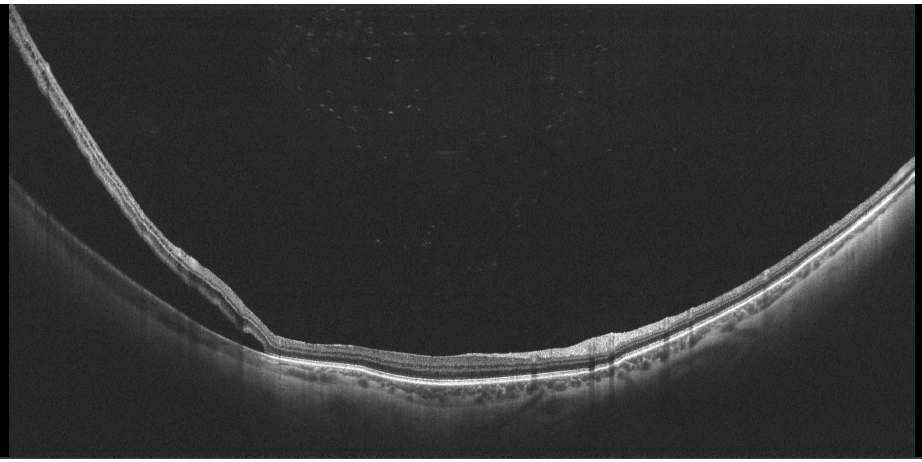
Swept Source OCT Wide field imaging in a single capture

Wide Field Swept Source OCT in One Single Capture

With the Xephilio OCT-S1 Canon Medical introduces revolutionary swept source technology allowing you to capture wide-field images of up to 23 mm in a single scan. The Xephilio OCT-S1 enables superior penetration of ocular opacities and provides outstanding tomographic images. Experience a new quality of OCT images in a single scan with greatly reduced noise, increased detail and improved visibility within just seconds. Swept source technology allows for a high scanning speed of 100,000 A-scans per second, while maximizing the essential signal data quantity during the acquisition. The 1,060 nm wavelength results in invisible scan lines and therefore ensures better patient collaboration and reduces the impact of the total examination.

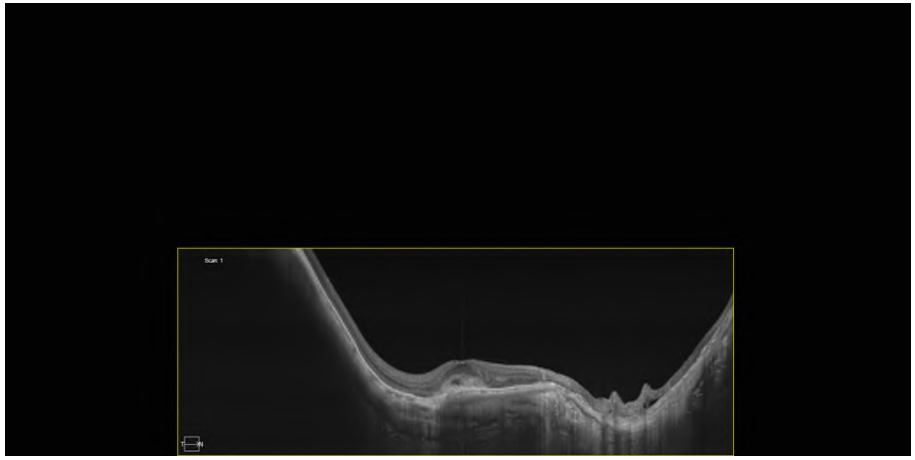
Wide Field imaging

With Xephilio OCT-S1 wide-field images of up to 23 mm width can be acquired in just one single scan, equaling an incredible 80° viewing angle.



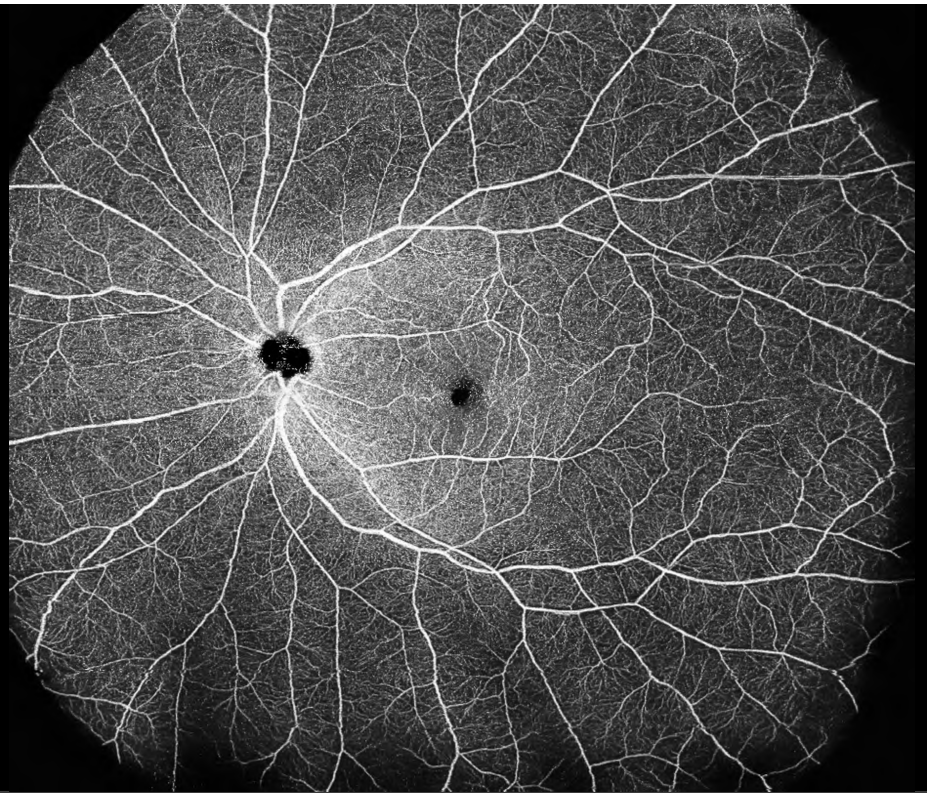
See the bigger picture

Canon OCT-S1 with 23 mm single capture vs a standard OCT. Canon Wide field OCT can visualise the a much larger area of retina not to miss any pathology in the periphery.



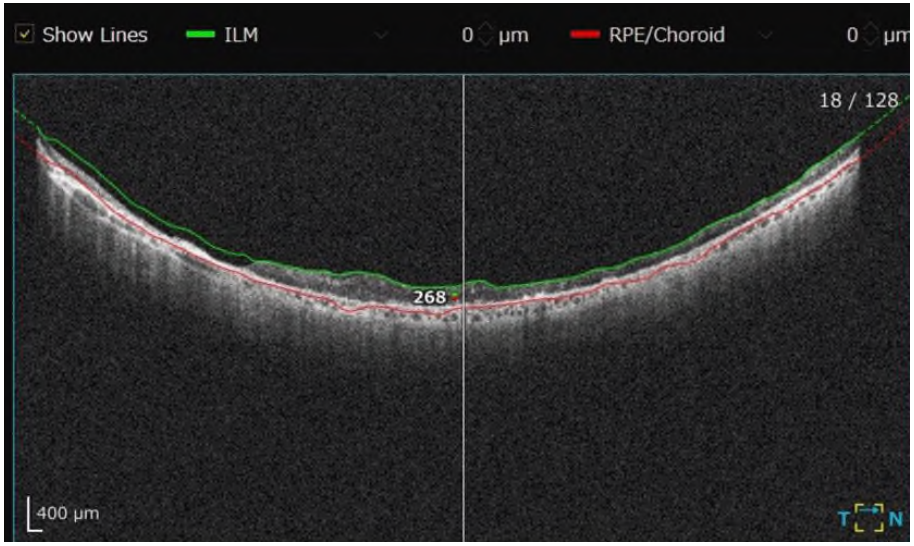
Single Capture Wide Field OCT Angiography

The Canon RX Capture software for OCT-S1 includes OCT Angiography already as standard! Wide field OCTA images of 23 x 20 mm can be obtained with a single acquisition. Visualization of Non – Perfusion areas over a very large surface is possible.

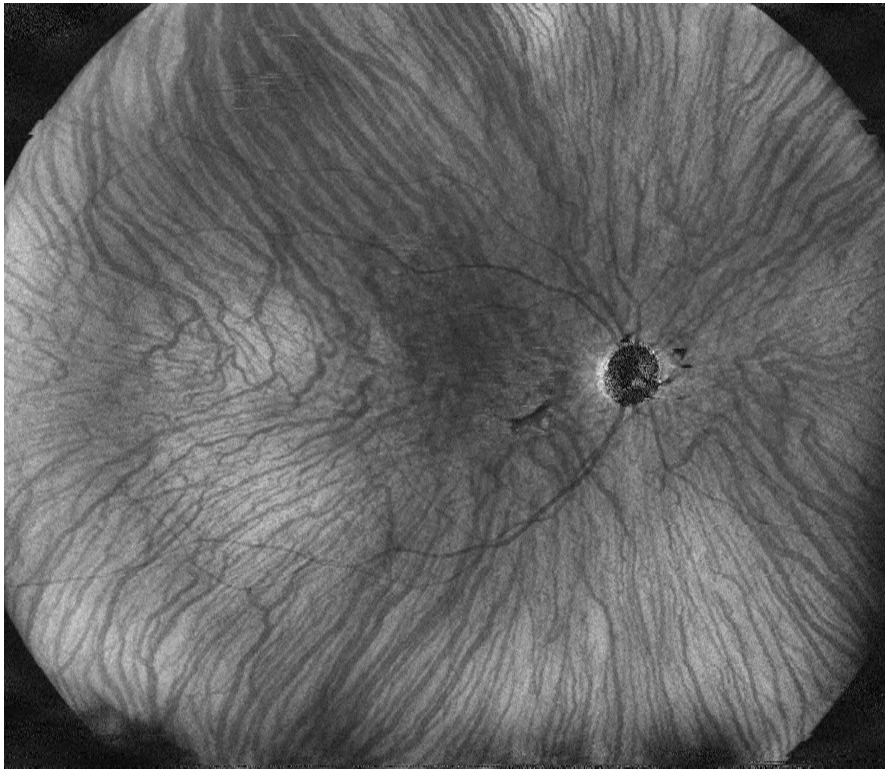


New AI Segmentation using Deep Learning

Thousands of tomograms, were manually segmented and used to generate the Training Data Set . The accuracy of determining the exact layer boundaries has been greatly improved and the number of detected layer boundaries is changed from 6 to 8.

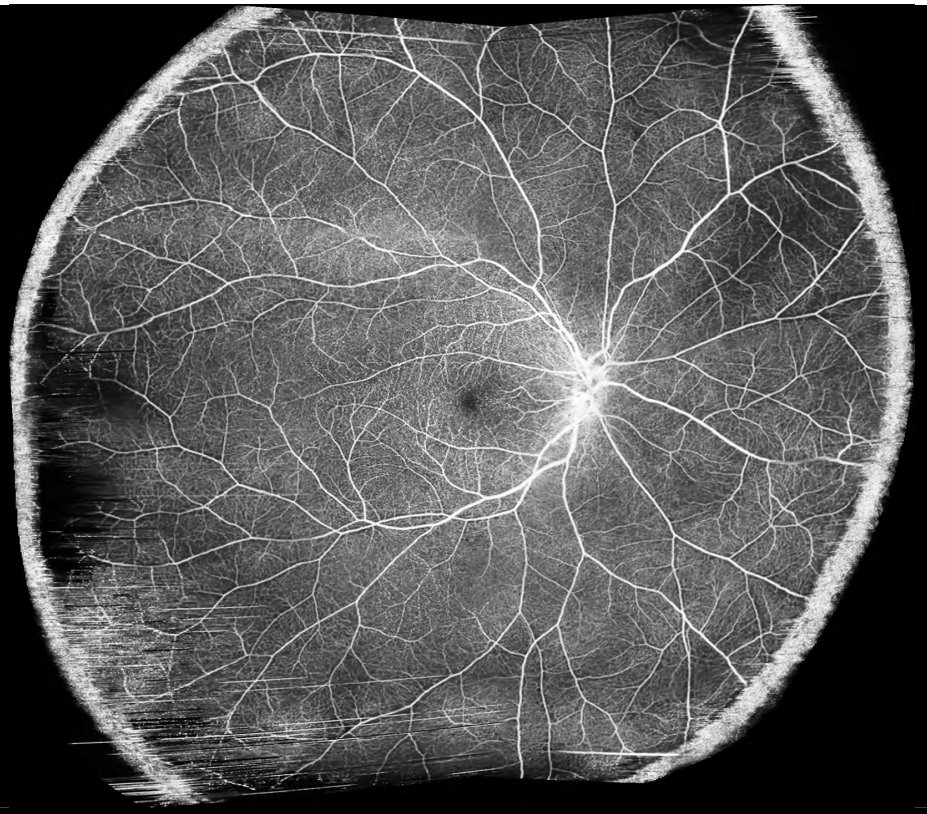


CSI Segmentation With the improved visualization of enface of choroid layer; the Choroidal Sclera Interface can now be detected.



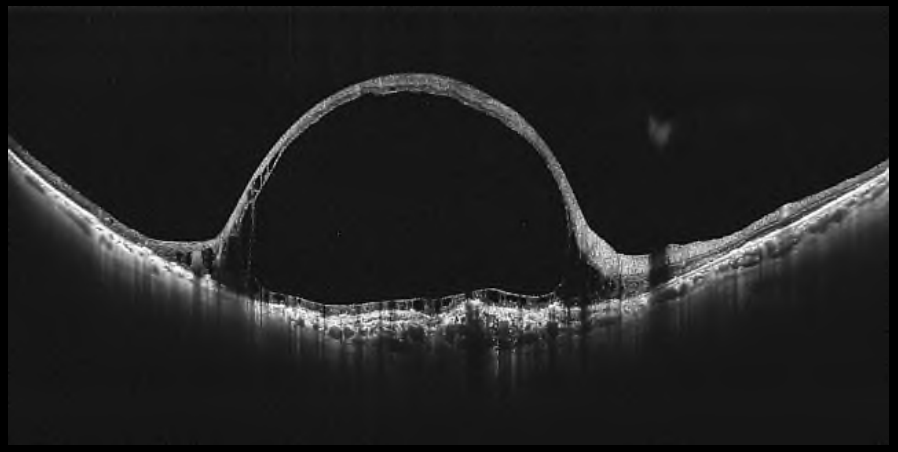
Mosaic Wide Field OCTA

With the optional auto montage function, by using just 4 or 5 images, a mosaic image with a scan width up to ≈ 31 mm and a scan height up to ≈ 27 mm can be created. On the diagonal this combined image would have a length of approx. 36 mm or a 120° viewing angle.



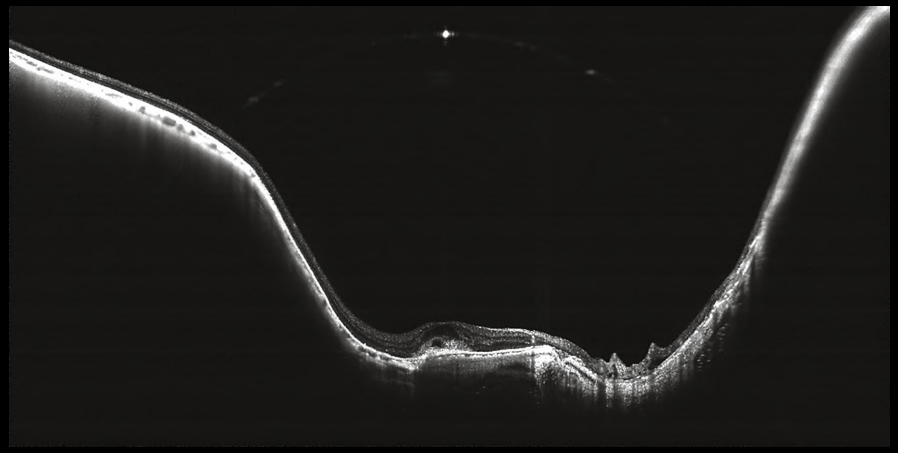
5.3 mm depth of imaging

The 5.3 mm depth of imaging allows for detailed visualization of vitreous body and choroid in just a single scan with superior image quality



This 23mm wide angle scan nicely depicts a chronic central retinal vein occlusion with edema.

Courtesy of Dr. Kadomoto, Kyoto University, Japan

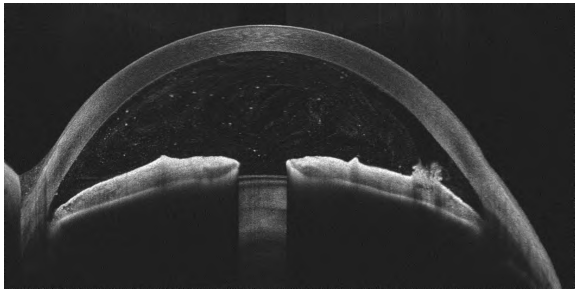


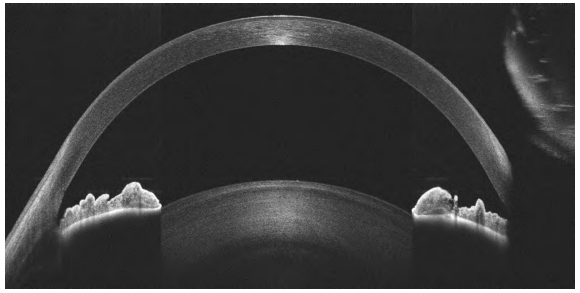
The curvature of the retina (especially posterior staphyloma) is well visualized in this Myopic Choroidal Neovascularization (mCNV) thanks to the 5.3 mm scan depth.

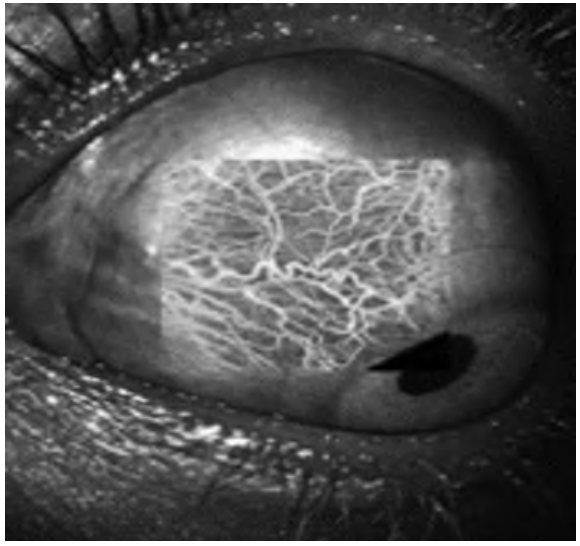
Courtesy of Dr. Kadomoto, Kyoto University, Japan

Anterior segment imaging

Without the need for any anterior adapter, the OCT-S1 can make wide corneal scans and can even perform anterior segment OCTA.



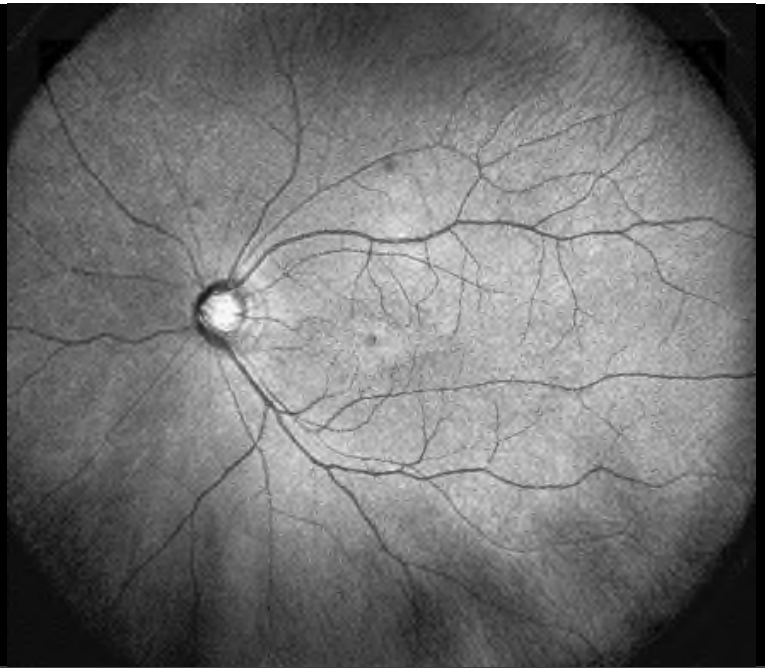




Easy and quick operation

Real-time tracking

The built-in SLO provides real time retinal tracking during scanning. By detecting and compensating small involuntary eye movements, motion artefacts are greatly reduced resulting in a better image quality. The SLO technology also allows for accurate follow-ups, finding the same scan position with great precision. In addition the wide field SLO image gives a clear observation.



Pin-Point precision

The OCT-S1 is equipped wih a joystick for easy, quick operation but combined with pin-point precision.

AI based optimize function

The optimize function enables several automated function: the fine alignment, auto focus, auto C-gate for optimal signal. The use of AI technology speeds up the adjustment enormously and also contributes to accuracy for best signal. These functions combined with the SLO based real-time retinal tracking, make obtaining a good quality scan effortlessly!

Xephilio OCT-A1

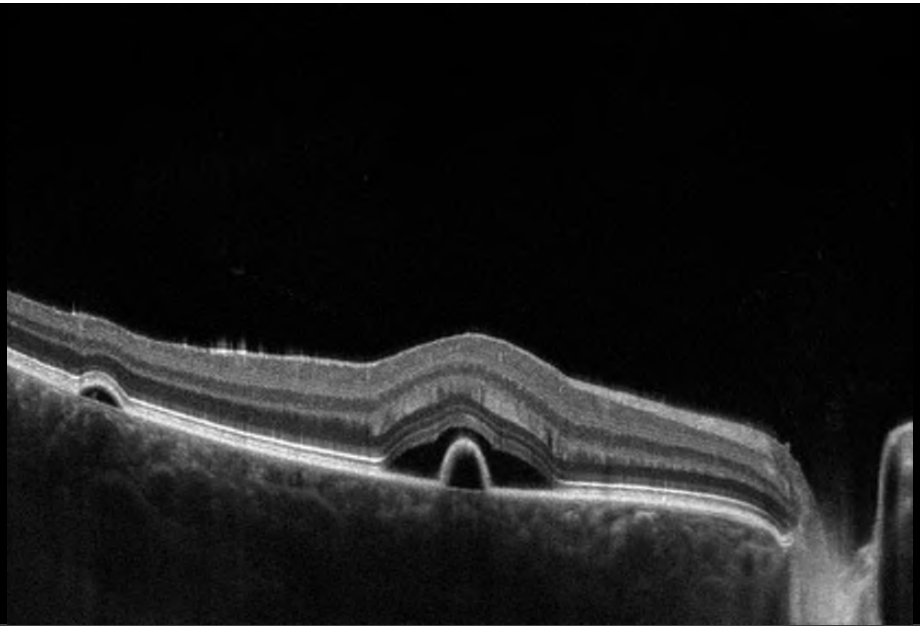
Optical Coherence Tomography

Xephilio OCT-A1

Xephilio OCT-A1 the latest Canon Medical High Resolution 3um optical coherence tomography for outstanding performance and exceptional ease of use you can rely on every day. High definition imaging quality and a host of automated features optimize and simplify your examinations with fast acquisition times while increasing your patients efficiency and comfort.

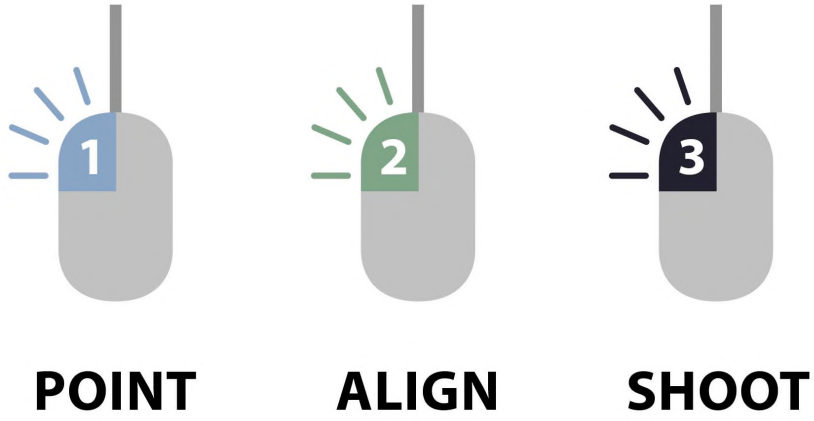
High Resolution OCT

Xephilio OCT-A1 offers superb image quality. The 3 micron optical resolution (1.6 µm digital) enables excellent differentiation of structures and individual layers of the retina.



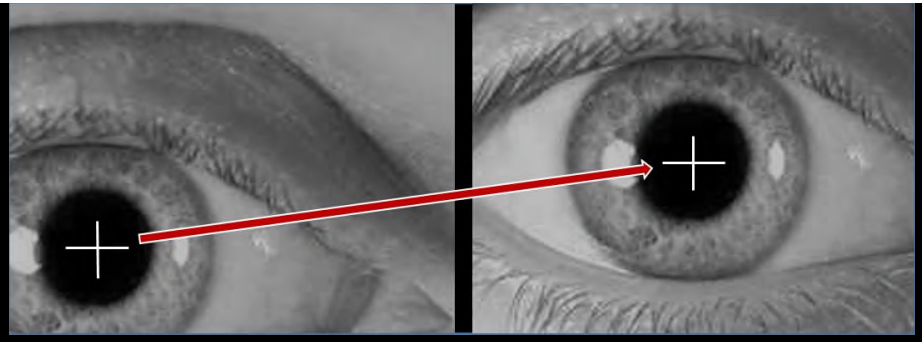
A complete exam with just 3 clicks

Examinations with the Xephilio OCT-A1 are extremely simple and therefore easy to delegate. With just 3 mouse clicks, scans be acquired. A complete range of intelligent functions enables fully automated examinations. In addition the auto-re-scan function intervenes if a patient makes unwanted eye movements and automatically compensates for any motion artefacts.



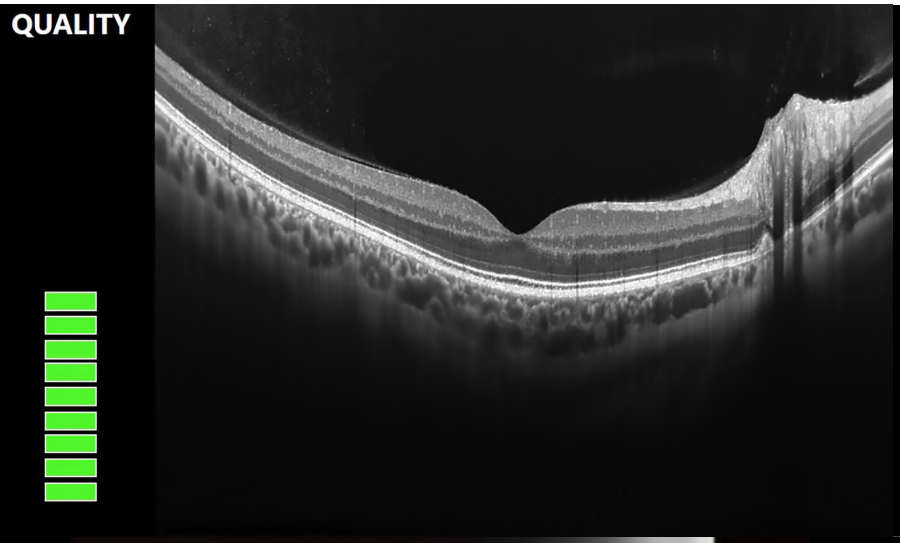
Automated anterior tracking

After clicking with the mouse on just roughly the center of the pupil, the OCT-A1 's automated anterior tracking will take over and will automatically detect and maintain the exact center, even when the patient is making eye movements or blinking.



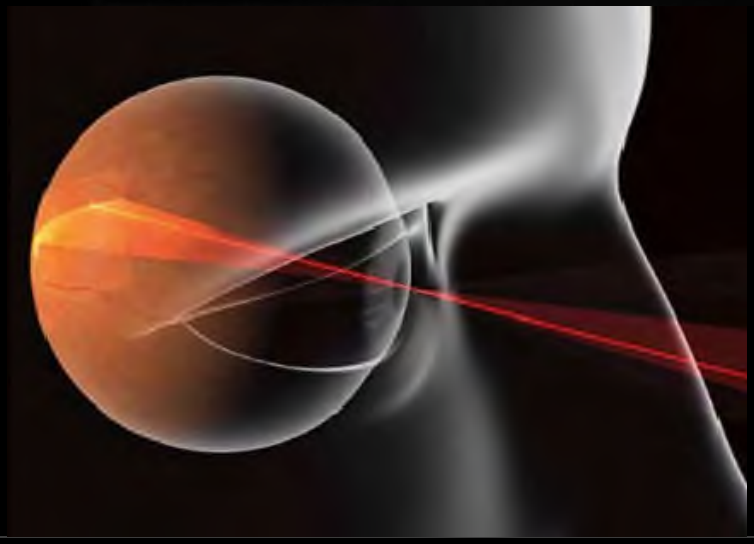
Automatic image optimization

A second mouse click will initiate the scanning and the device will automatically optimize the focus and coherence gate for the highest signal quality and the best possible examination results. After confirmation of the pre-view scan images, the third click will start the actual acquisition which only takes seconds.



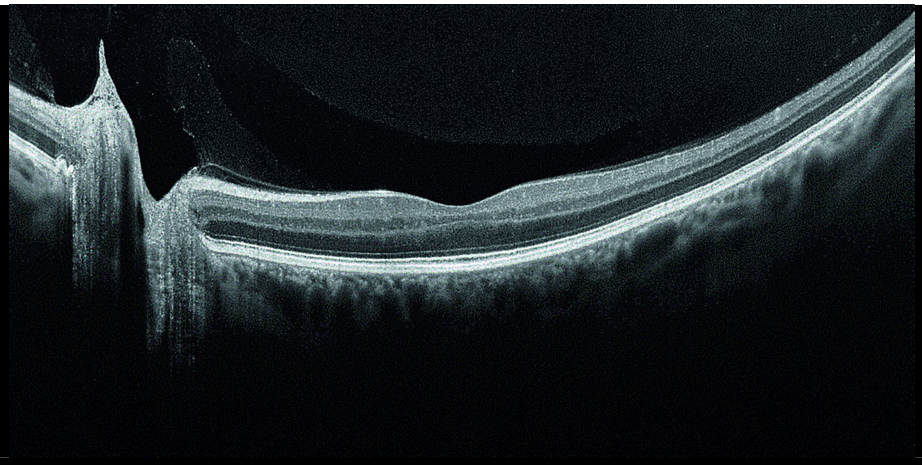
Real-time retinal tracking

The OCT-A1 is equipped with a Scanning Laser Ophthalmoscope. This SLO system allows for real-time retinal tracking. By detecting and compensating movements, the impact of small involuntary movements that could cause motion artefacts is greatly reduced and image quality is greatly improved.



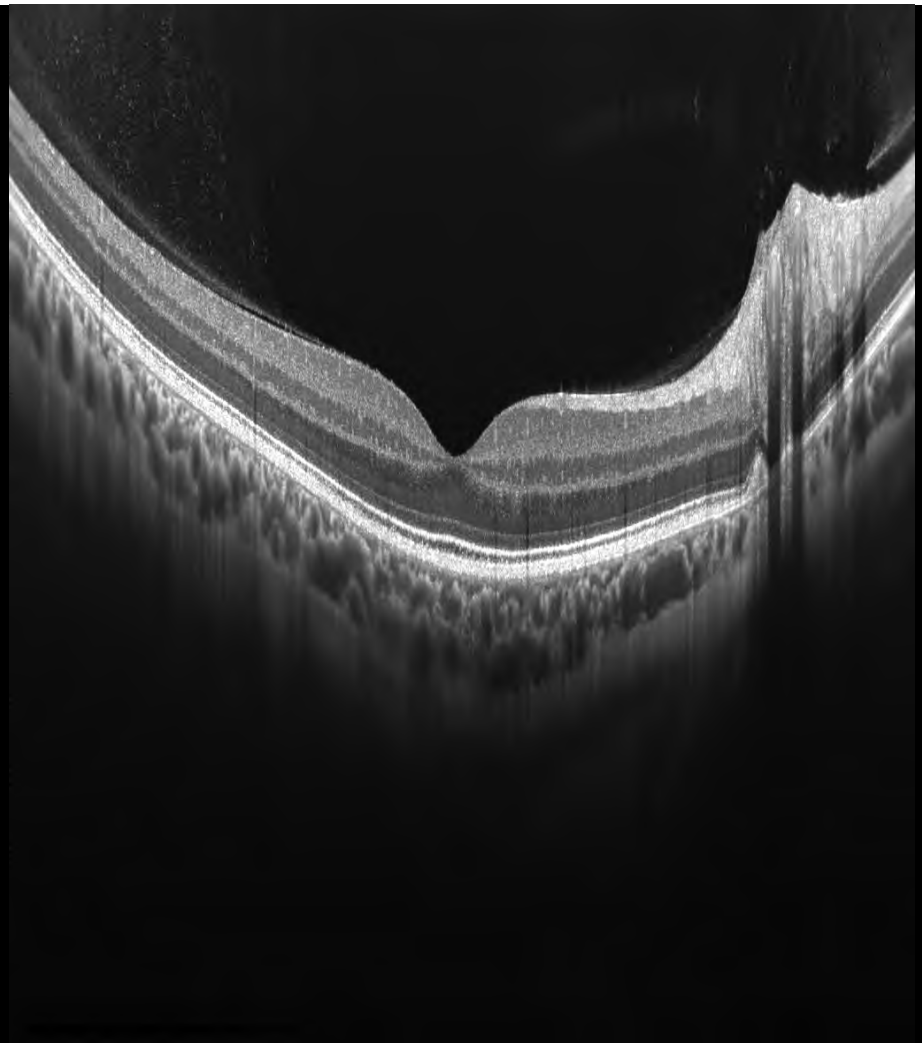
High Image resolution

With Xephilio OCT-A1, up to 200 scans can be averaged to achieve an image resolution that allows you to see in detail both the layer structure as well as the vitreous pleated structure. The device combines high resolution image with a particularly wide scan width of up to 13 mm!



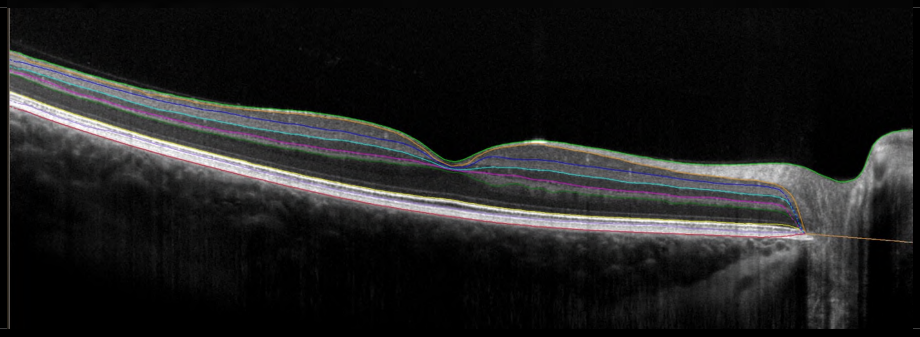
Enhanced depth visualization

For optimal imaging, the system offers special scan modes for both vitreous and choroid imaging.



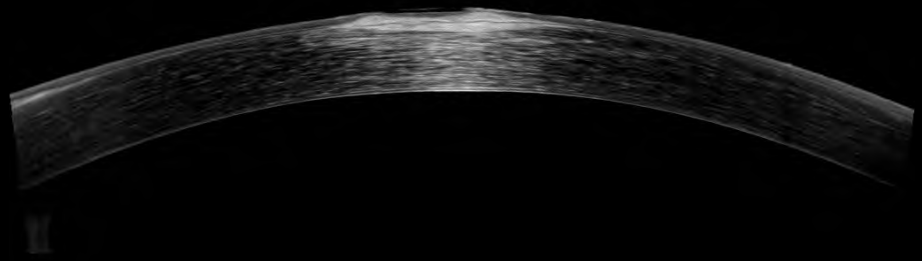
Reliable 10 layer recognition

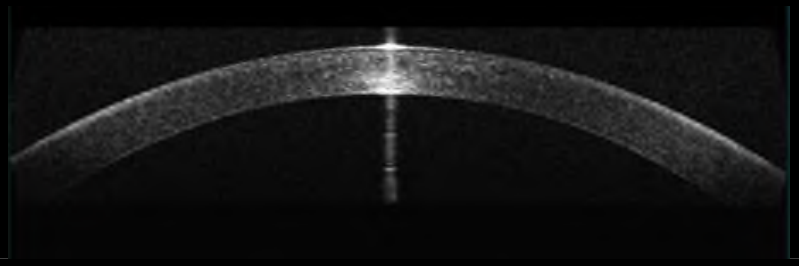
Canon's Xephilio OCT-A1 can automatically detect and distinguish 10 layers of the retina – including Bruch's membrane (BM).



Anterior imaging

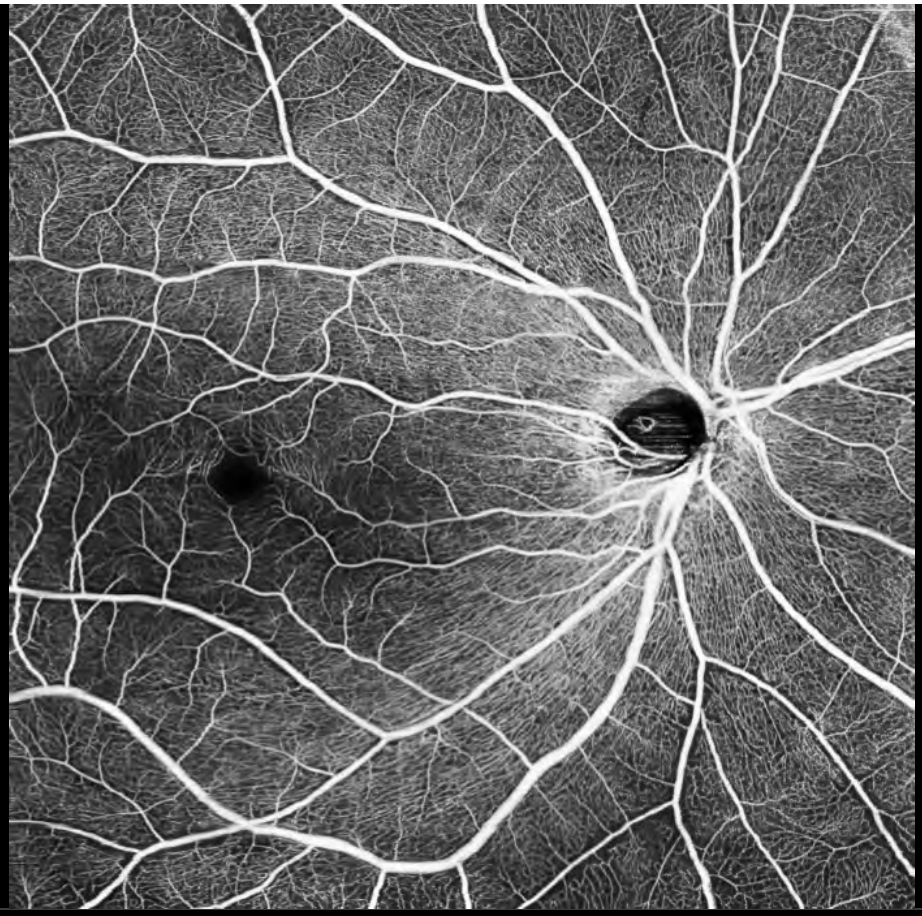
With the optional Anterior Segment Adapter ASA-1, the 3 micron resolution of Xephilio OCT-A1 also gives you the ability to image the anterior segment of the eye in great resolution. The width of Anterior scans can be 6 or 9 mm.





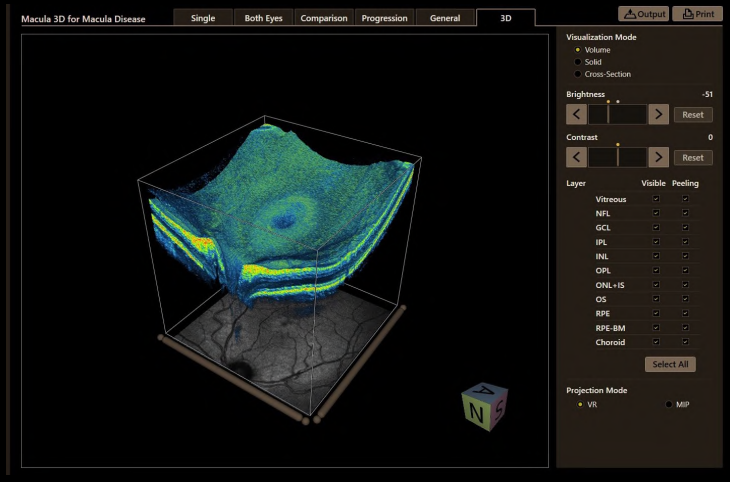
OCT Angiography

With the optional Angio Expert software module, the OCT-A1 can provide you with amazing OCTA images, showing the great optical qualities of the device.



3D Visualization

The unique optical characterics of the OCT-A1 also provide a very strong 3D visualization. The 3D images can support the clinical diagnosis and could be used for patient education as well.



The New Retinal Imaging Reality

Since COVID-19, the requirement of physical distancing during patient examinations is the new “reality” in Eye Care practices. The reason why Canon Medical Systems has been investigating several solutions for you and your patient safety while performing an OCT eye examination. Canon Xephilio OCT-A1 will allow you to have multiple possibilities to operate the device in a completely safe way, mainly due to the fact that the device does not require a joystick and can be operated from any PC and with just a few clicks! Your patients will also appreciate seeing that the examinations can be done safely from a few meters away, or even from another room or location.

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