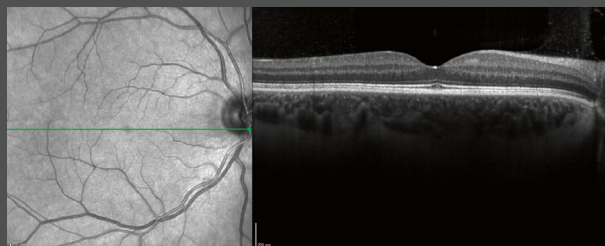


SHIFT – Why Adjust Speed?

About SHIFT Technology



SHIFT is a SPECTRALIS technology that supports choosing individual scan speeds (20, 85, 125 kHz) for OCT and OCTA image acquisition. Standard settings ensure efficient workflow, while you still have the flexibility to change the scan speed if needed to find the perfect balance between image quality and speed to provide individualized patient care.



Remain at the established speed of 85 kHz to maintain the **ideal balance between speed and quality** for structural OCT.



In the event of challenging cases, e.g. corneal scars, cataract, dry eye, media opacities:

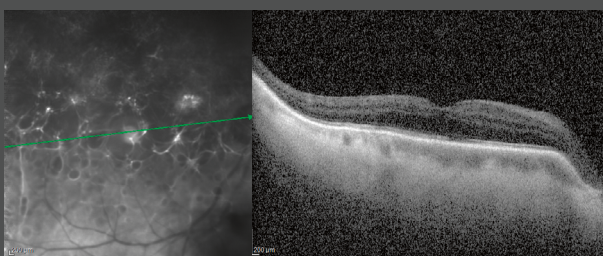


Image quality is reduced due to corneal defect.



Achieve the **best signal-to-noise ratio/ Q-value** for better OCT image quality and visualization of details by reducing the speed to 20 kHz.

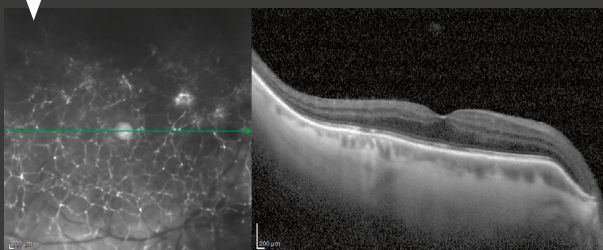
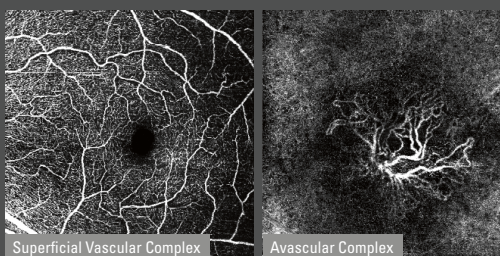


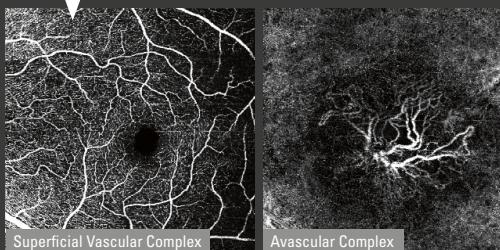
Image quality is reduced due to corneal defect.



In case of dense volume scans with high ART number, e.g. OCTA:



Achieve **faster image acquisition** without clinically relevant loss in OCT image quality due to a scan speed of 125 kHz.



Availability


Mode	20 kHz	85 kHz	125 kHz
OCT	Optional Optimized for single line scans.	Default	Optional
OCTA	Not available	Optional	Default



Shifting scan speeds is possible with all OCT modules, except Anterior Segment Module.

SHIFT – How to Adjust Speed?

Acquiring Images with SHIFT

1 Start image acquisition by pressing . Align the camera so that the IR image is evenly illuminated on all sides and focus the IR image so that the fine blood vessels around the fovea are sharp.

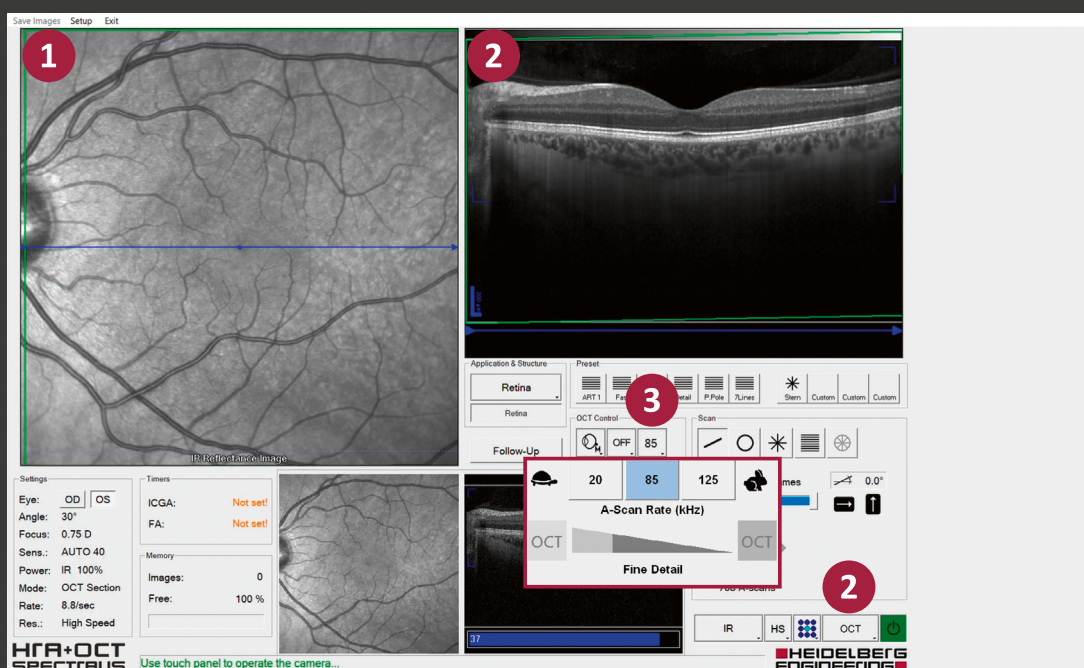
2 Choose **OCT** and align OCT section image within the sweet spot (blue markers).

 The ideal speeds are already preset: 85 kHz for OCT and 125 kHz for OCTA.


3 If you want to increase OCT image quality or shorten acquisition time, e.g., in case of poor patient compliance or due to time constraints, select a different speed:


In the **OCT Control** section, click **85** and select **20** to improve image quality and make more details visible, or **125** to shorten the acquisition time.


 If poor OCT image quality is observed during OCTA acquisition with SPECTRALIS SHIFT, reduce the speed to 85 kHz. This will increase the acquisition time.



4 Realign camera image and OCT section image as described in **1** and **2**.

5 **Single line scans:** Engage eye tracking with a long press of the joystick button or by pressing  on the touch panel. When the ART mean has reached the required number of 100 frames in the OCT section image, acquire the image with a short press of the joystick button or press **Acquire** on the touch panel.

Volume or radial scans: Engage eye tracking with a long press of the joystick button or by pressing  on the touch panel. Acquire the image with a short press of the joystick button or press **Acquire** on the touch panel. Watch the small live image, that is displayed on the lower section of the acquisition window for an even illumination of the IR image and proper orientation of the OCT section image. Keep your hands on the device and readjust the camera if needed until all images have been acquired.

6 Press  on the keyboard to exit.