
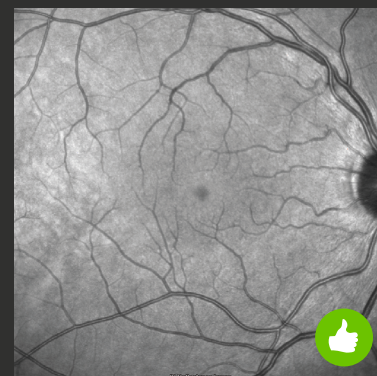
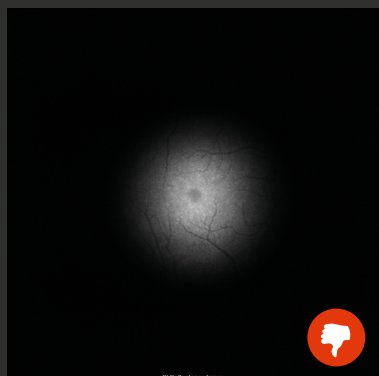



# Image Acquisition: Retina

## IR+OCT Scans

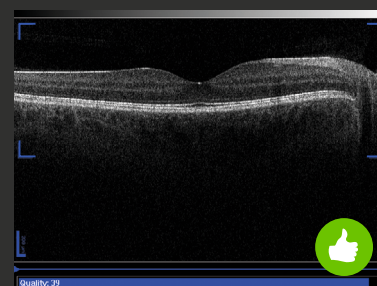
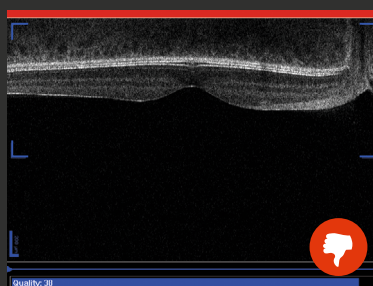
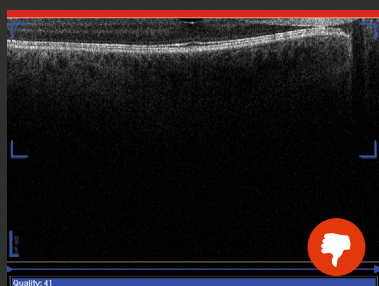
- 1 Start image acquisition by pressing  then move the camera head towards the patient's eye and twist the joystick to move the camera head up and down in order to align the camera so that the IR image is evenly illuminated on all sides:




 If your SPECTRALIS has a touch panel, rotating the ART button will decrease or increase the brightness of the IR image if automatic brightness control is not engaged.




- 2 Focus the IR image using the focus knob so that the fine blood vessels around the fovea are sharp.
- 3 Align the OCT section image so that it is correctly positioned in the **Sweet Spot** (blue markers). If it is upside down, move the camera slowly back from the patient's eye until the OCT section image is displayed correctly.

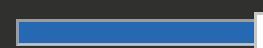


 When examining patients with high myopic/hyperopic eyes it is useful to change the eye length parameter in the **OCT Control** section in order to align the images correctly.




- 4 **Single line scans:**  
Engage the eye tracking with a long press of the joystick button or by pressing  on the touch panel. Wait for the ART mean to reach the required number of frames. Acquire the image with a short press of the joystick button or press **Acquire** on the touch panel.

ART 100 frames



### Volume or radial scans:

Engage the 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. A small live image will be displayed on the lower section of the image acquisition window. Watch the small live image 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 in the volume or radial scan have been acquired.

- 5 Press **Esc** on the keyboard to exit.

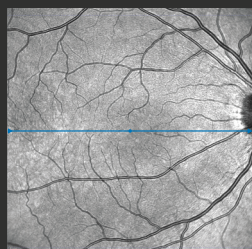
# Image Acquisition: Retina

## OCT Scan Patterns

Application & Structure

Retina

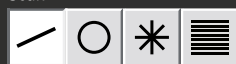
### Single Line and Radial Scan



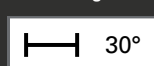
Single Line

Scan pattern:

Scan

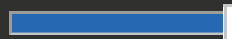


Scan length:



ART number of frames:

ART 100 frames



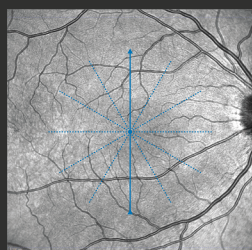
✓ | ✕



Scan orientation:



and/or



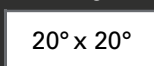
Radial

Scan pattern:

Scan



Scan length:



ART number of frames:

ART 9 frames



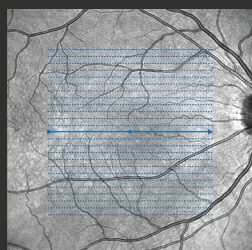
Number of sections and section spacing:

6 sections



30.0°

### Volume Scan Presets



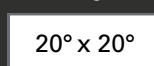
Fast Volume

Scan preset:

Preset

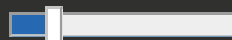


Scan length:



ART number of frames:

ART 9 frames



✓ | ✕

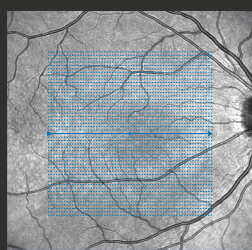


Number of sections and section spacing:

25 sections



240 µm



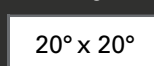
Dense Volume

Scan preset:

Preset



Scan length:



ART number of frames:

ART 9 frames

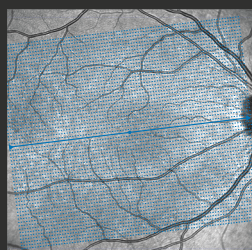


Number of sections and section spacing:

49 sections



120 µm



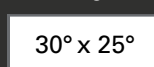
Posterior Pole Volume

Scan preset:

Preset



Scan length:



ART number of frames:

ART 9 frames



Number of sections and section spacing:

61 sections



120 µm

The list of scan patterns on this page is not exhaustive but represents a useful starting point. Please refer to your SPECTRALIS User Manual for information about the full range of options.