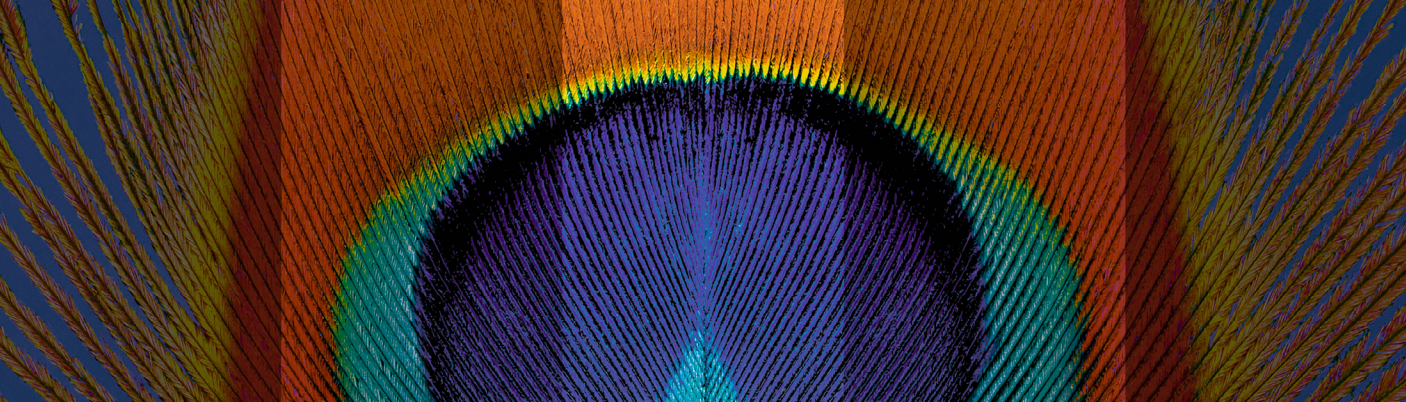


Quick Tutorial:
Image Acquisition




SPECTRALIS®
Glaucoma Module Premium Edition



Baseline: Anatomic Positioning System (APS)

Getting Started!

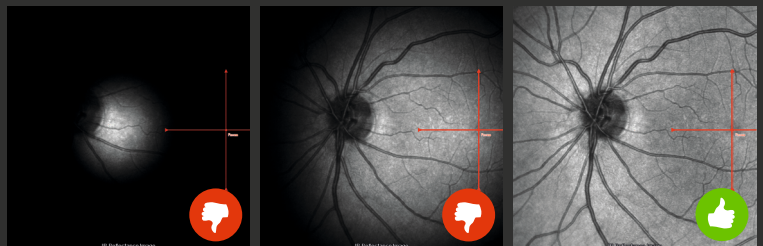
The following steps only need to be performed at the patient's first visit. Anatomic landmarks will be saved and at follow-up you can proceed straight to acquiring images.


i Before starting image acquisition, it is highly recommended to enter the patient's C-Curve in the **Eye Data** dialog box to guarantee an accurate comparison to the reference database.

1 Start image acquisition by pressing  and select **Glaucoma** from the **Application & Structure** menu.

2 Select  or  from the scan pattern preset menu.

3 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 infrared (IR) fundus image is evenly illuminated on all sides:

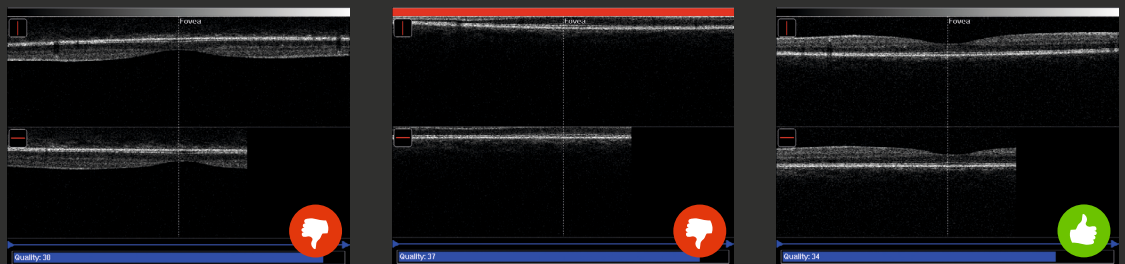


i If your SPECTRALIS has a touch panel, rotating the ART button will decrease or increase the brightness of the IR image if automatic brightness control is not engaged. 

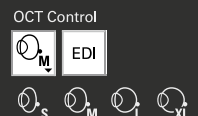
4 Focus the IR image using the focus knob so that the fine blood vessels are sharp.

Detecting the Fovea Position

1 Align the OCT section image so that it is correctly positioned in the **Sweet Spot**:

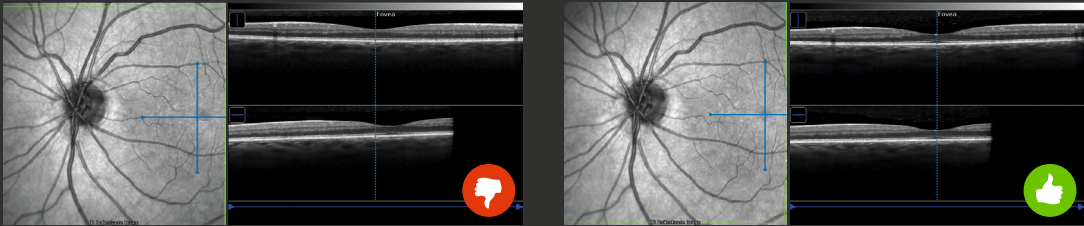


i When examining patients with high myopic or hyperopic eyes it is recommended to change the eye length parameter in the **OCT Control** section in order to align the IR and OCT section image correctly.

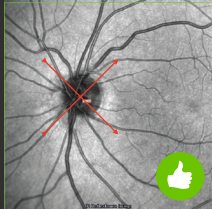
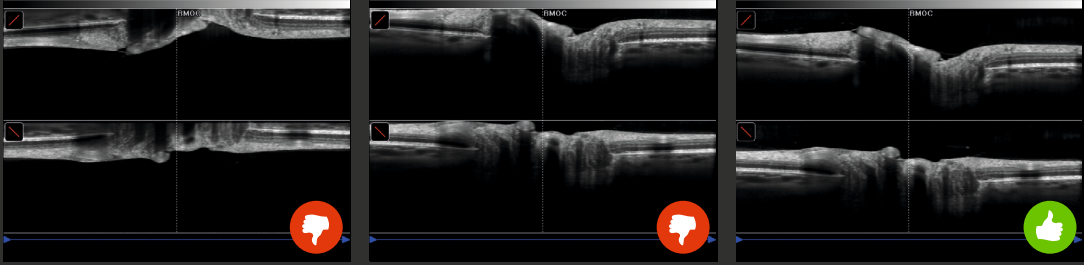


2 In the **Scan** section press **Start Fovea Detection**

Confirming the Fovea Position

- 1 Check the fovea has been detected correctly – the blue dashed lines should be positioned through the center of the thinnest part of the retina, indicating the position of the foveola:

- 2 If the foveola has not been detected automatically, drag-and-drop the cross on the IR image to the correct position or click on the foveola on the OCT section images to reposition the blue dashed lines.
- 3 In the **Scan** section press **Confirm Fovea Detection** or click **Back** to restart the automatic detection.

Detecting the BMO Position

- 1 On the IR image, a red cross is displayed on the optic nerve head. Ensure that the IR image is evenly illuminated and adjust the camera if needed.

- 2 Align the OCT section image so that it is correctly positioned in the **Sweet Spot**:

- 3 In the **Scan** section press **Start BMO Detection**

Confirming the BMO Position

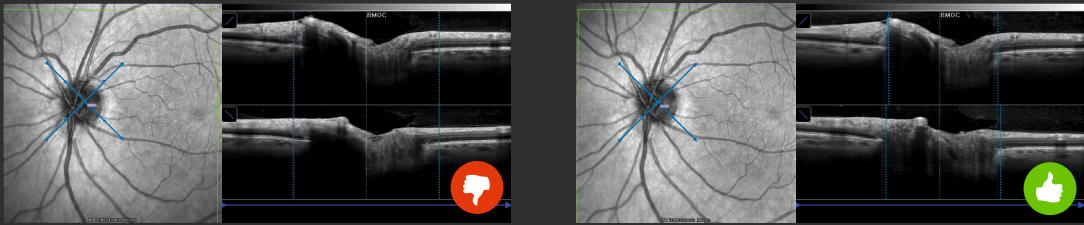
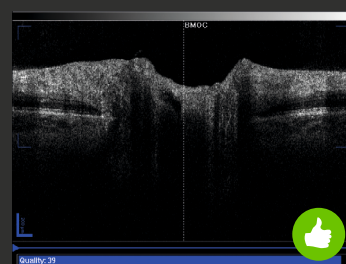
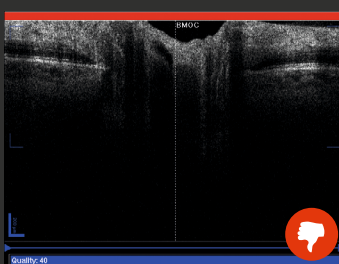
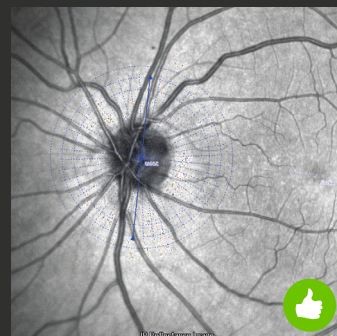
- 1 Check if Bruch's Membrane openings have been detected correctly. Otherwise reposition the vertical blue lines and/or drag-and-drop the cross in the IR image to the center of the optic nerve head:

- 2 In the **Scan** section press **Confirm BMO Position** or click **Back** to restart the automatic detection.

Image Acquisition

ONH-RC Scan



- 1 Ensure that the IR image is evenly illuminated and adjust the camera if needed.
- 2 Sharpen the blood vessels in the IR image by using the focus knob.
- 3 Align the OCT section image so that it is correctly positioned in the **Sweet Spot**. If the OCT section image is upside down, move the camera slowly back from the patient's eye until the OCT section image is displayed correctly:



- 4 Start image acquisition with a short press of the joystick button or press **Acquire** on the touch panel. ART image averaging will be automatically switched on. A small live image will be displayed on the lower section of the image acquisition window.



Always watch the small live image for an even illumination of the IR image and a proper orientation of the OCT section image. Keep your hands on the device and readjust the camera if needed until all images in the radial scan have been acquired.

- 5 After the radial OCT section scans have finished acquiring, three circumpapillary RNFL (cpRNFL) scans will automatically begin acquiring. Ensure the OCT section image remains correctly positioned in the **Sweet Spot**.

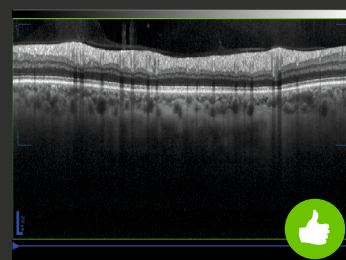
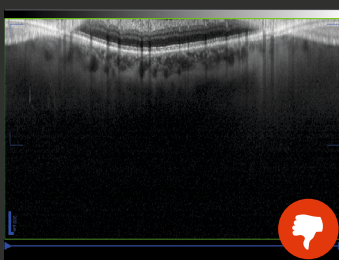
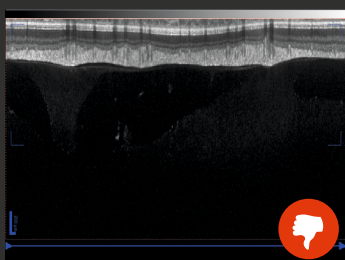
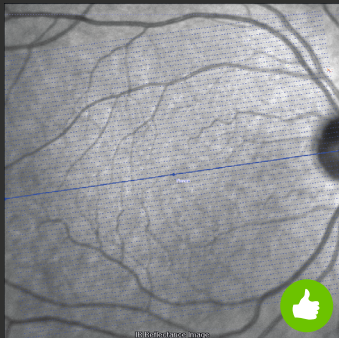
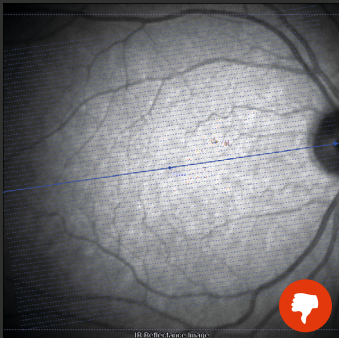
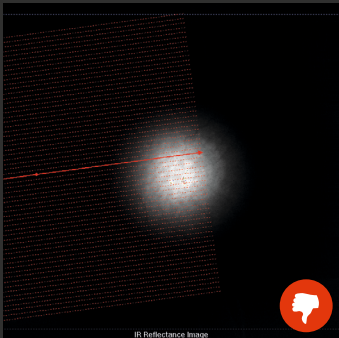


Image Acquisition

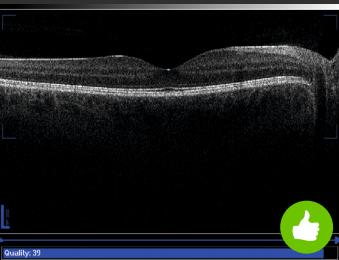
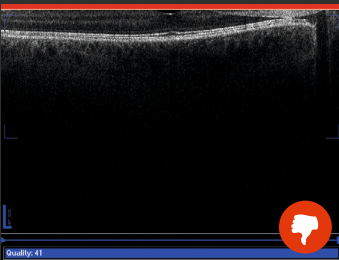
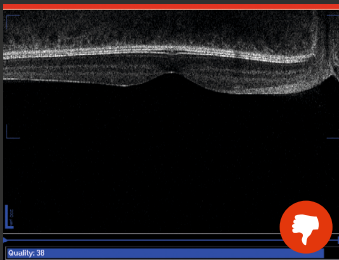
Posterior Pole Scan



- 1
- 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:



- 2
- Sharpen the small blood vessels around the fovea in the IR image by using the focus knob.
- 3
- Align the OCT section image so that it is correctly positioned in the **Sweet Spot**. If the OCT section image is upside down, move the camera slowly back from the patient's eye until the OCT section image is displayed correctly:



- 4
- Start image acquisition with a short press of the joystick button or press **Acquire** on the touch panel. ART image averaging will be automatically switched on. A small live image will be displayed on the lower section of the image acquisition window.

Always watch the small live image for an even illumination of the IR image and a 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 scan have been acquired.

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

This quick tutorial is designed to be a useful starting point for anyone acquiring images using the SPECTRALIS Glaucoma Module Premium Edition. It does not replace the user manual, so please refer to this for more complete information and guidance about using your device.



Headquarters

Heidelberg Engineering GmbH · Max-Jarecki-Str. 8 · 69115 Heidelberg · Germany
Tel. +49 6221 64630 · Fax +49 6221 646362

AUS

Heidelberg Engineering Pty Ltd · Suite E5, 63–85 Turner Street · Port Melbourne 3207 · Victoria
Tel. +61 396 392 125 · Fax +61 396 392 127

CH

Heidelberg Engineering GmbH · Schulstrasse 161 · 8105 Regensdorf
Tel. +41 44 8887 020 · Fax +41 44 8887 024

FIN

Heidelberg Engineering GmbH · Luomannotko 6 · 02200 Espoo
Tel. +358 505 226 963

UK

Heidelberg Engineering Ltd. · 55 Marlowes · Hemel Hempstead · Hertfordshire HP1 1LE
Tel. +44 1442 502 330 · Fax +44 1442 242 386

US

Heidelberg Engineering Inc. · 10 Forge Parkway · Franklin, MA 02038
Tel. +1 508 530 7900 · Fax +1 508 530 7901

www.HeidelbergEngineering.com