


Ultra-Widefield Angiography Module Quick Start Guide

SPECTRALIS®

EXCHANGING LENSES (SPECTRALIS Ultra-Widefield User Manual Section 4.1)

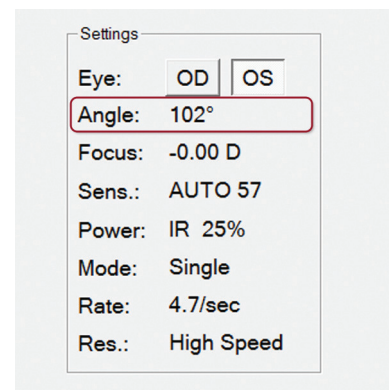
- Move the camera head back as far as possible.
- Turn the focus knob to approximately +45 D.
- Click  to turn off the laser and the scanners.

If no lens is attached, the error message "Objective lens missing" will be displayed in the acquisition window.



Removing the 30° lens and attaching the UWF lens

- **To remove the SPECTRALIS 30° or 55° lens, turn it counterclockwise approximately 50°.**
Be sure to store unused lens(es) properly in the wooden storage box(es).
- **To mount the Ultra-Widefield (UWF) Lens, insert the lens with the red dot orientated upwards at the 12 o'clock position.**
NOTE: The UWF Lens weighs about 1 kilogram or 2.25 pounds and is larger and heavier than the SPECTRALIS standard lens.
- **Rotate the lens clockwise (approximately 50°) until it clicks into place.**
- **Turn the safety collar clockwise until it becomes snug against the dovetail (see blue arrow in photo above).**
The SPECTRALIS automatically detects which lens is mounted.
The default scan angle of "102°" is displayed in the "Settings" section.
Scan angle options of 51° and 68° are only available on systems with a touch panel.
- **Turn the focus knob until "Focus" is approximately "0.00 D".**
NOTE: With the UWF Lens, the "Focus" adjusts in steps of 2.0 D.
With the 30° and 55° lenses, the "Focus" adjusts in steps of 0.25 D.



"Settings" section on acquisition screen

TIPS FOR GOOD IMAGE QUALITY (SPECTRALIS Ultra-Widefield User Manual Section 5.2)

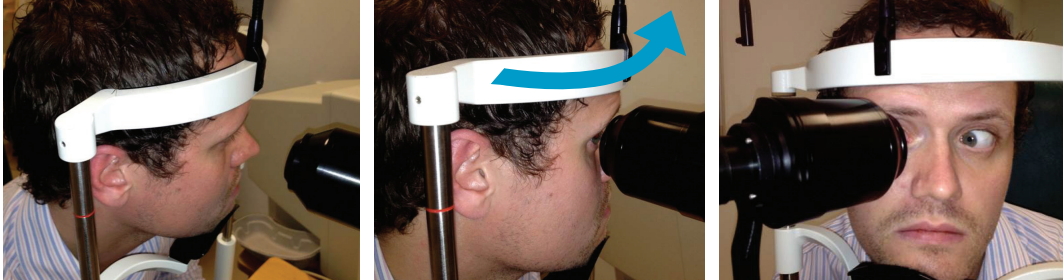
- **Dye preparation:**

Using the full, manufacturer recommended dose of dye offers the best image quality.

Injecting the dye at about 1cc/sec followed by a saline flush is helpful.*

- **Patient positioning for deep-seated or small orbits:**

Turn the patient's head to the side, as shown below, and have the patient look into the lens.



MACULA AND PERIPHERY IMAGING PROTOCOL

- **Early phase (0 to 90 seconds)**

Use 30° or 55° lens to get high-resolution images of the macula.

- **Mid and late phase (90 seconds and later)**

Turn off the camera by pressing the green power button on the acquisition window before switching lenses.

Switch to the UWF lens.

Choose HR (High Resolution) image resolution and confirm proper focus in FA or ICGA mode.

UWF ONLY IMAGING PROTOCOL

- **The UWF lens is mounted before the dye is injected.**

Place the filter wheel position in the upper "P" position to focus in XP-IR mode.

Once the focus has been established, move the filter wheel to the "A" position, switch to "FA" or "ICGA" mode and press "Inj." at the start of the injection.

Select movie mode and hit the "Acquire" button on the touch panel when the dye is first seen within the retina.

Adjust the gain control as needed during the angiogram.

Use the ART mode when acquiring single images.

*Clark, M. Thomas (2009). *Retinal Photography and Angiography via Film and Digital Imaging Techniques*. In Arévalo, J. Fernando (Ed.), *Retinal Angiography and Optical Coherence Tomography* (pp. 3-25). New York, NY: Springer Science + Business Media, LLC.

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