

How do I acquire a high-quality scan on my CIRRUS HD-OCT? (Part 1 of 3 – iris alignment)

ZEISS Quick Help: CIRRUS™ HD-OCT

Acquiring a good-quality scan on a CIRRUS HD-OCT is a 3-part process, which includes iris alignment, fundus alignment and OCT alignment that results in a final scan. This document demonstrates **Part 1: How to obtain a high-quality iris alignment**.

From the CIRRUS HD-OCT **Home Screen**, select a patient and click on **Acquire** to go to the Acquire Screen. (Figure 1)

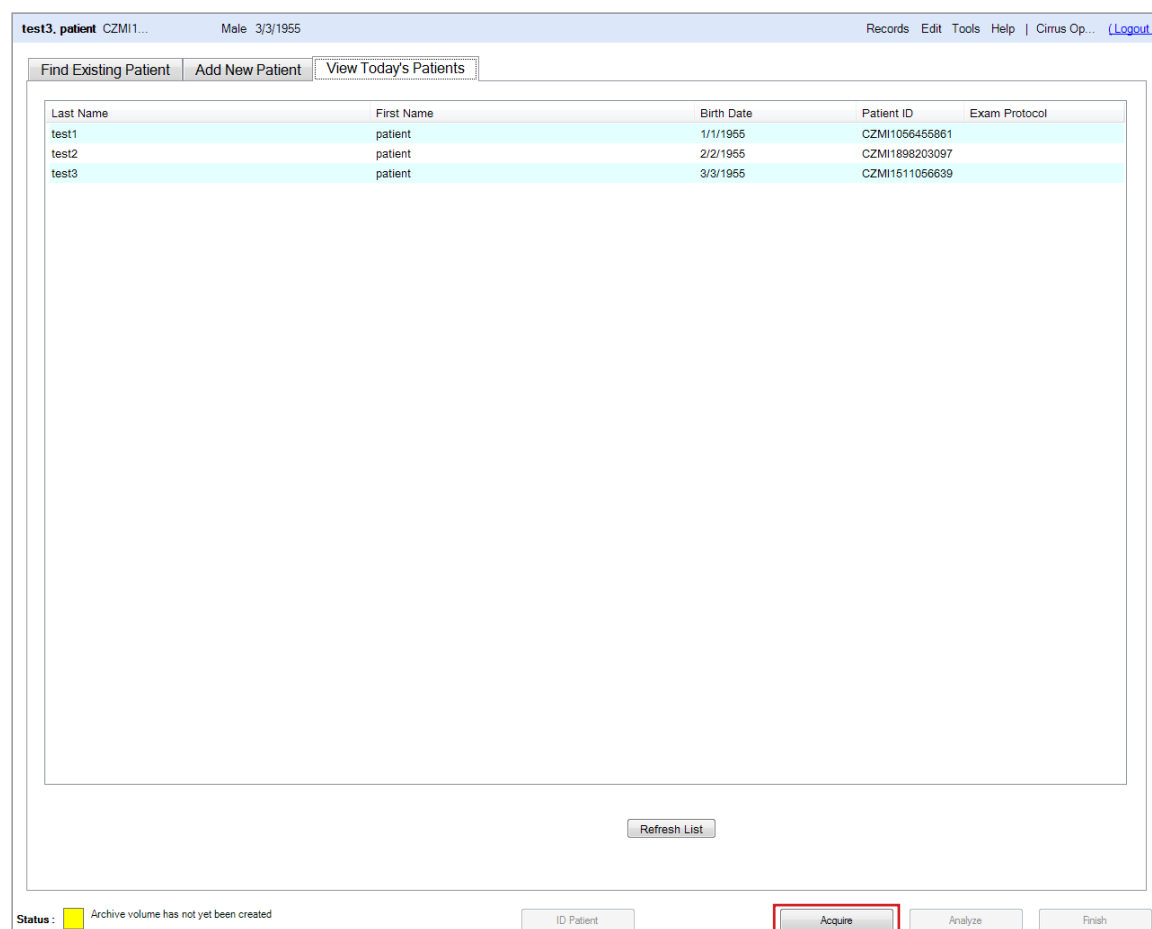


Figure 1

Before continuing on with capture of an OCT image, it's a good idea to review the content of the **Acquire Screen** (Figure 2). The following example shows a Macular Cube 512x128 scan.

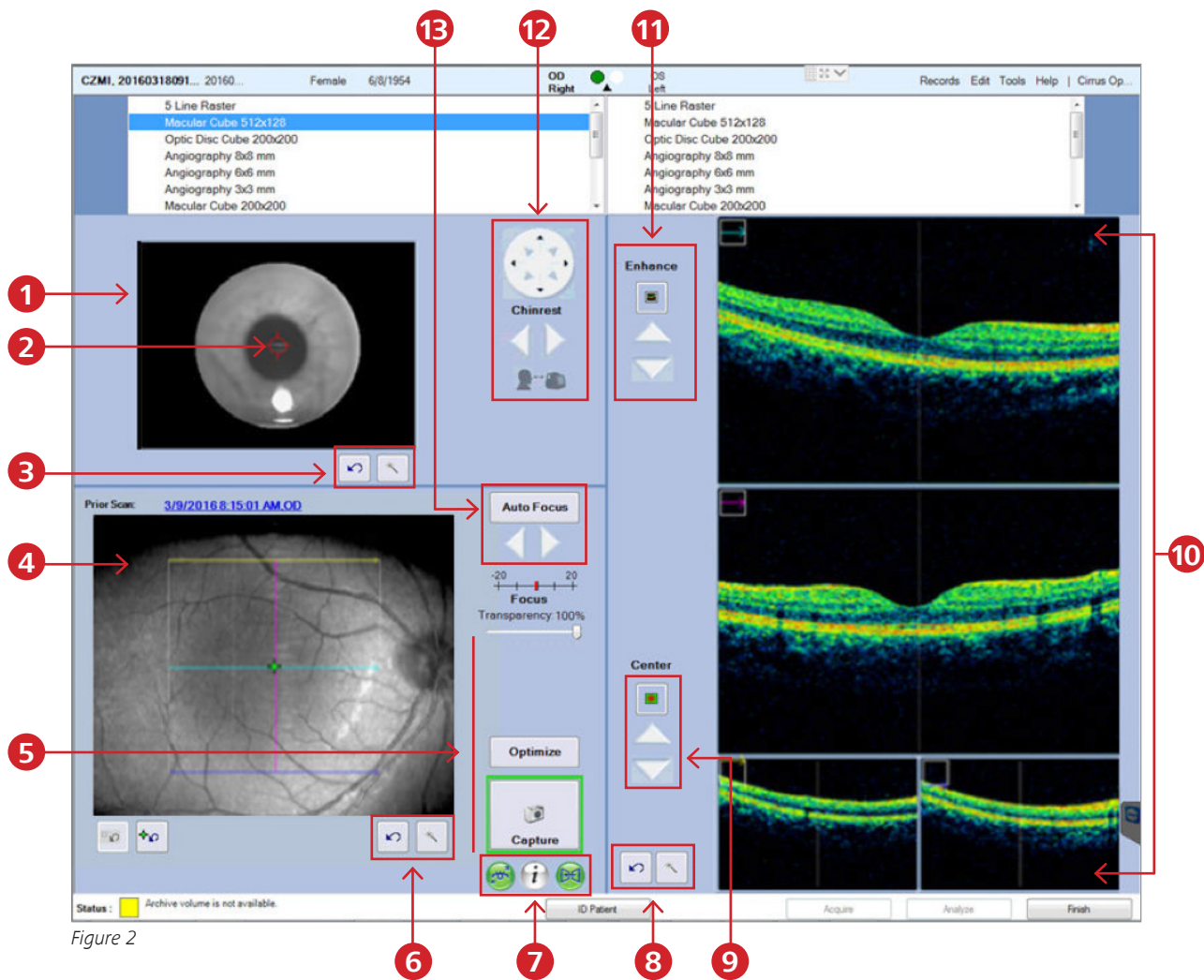


Figure 2

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Iris viewport 2. Iris viewport center of interest indicator 3. Reset chinrest position button and Magic Wand button 4. Fundus viewport 5. Optimize button 6. Reset fundus focus button and Magic Wand button 7. FastTrac buttons | <ul style="list-style-type: none"> 8. Reset center button and Magic Wand button 9. Auto and manual center controls for B-scans 10. B-scan viewports 11. Auto and manual B-scan enhancement 12. Chinrest controls 13. Auto focus and manual diopter adjustment |
|---|---|

Align the Patient Eye

- Proper alignment of the patient eye to the external marker is crucial to obtaining a good quality scan (Figure 3).
- On the CIRRUS HD-OCT, align the patient eye by using the chinrest controls (Figure 4) to adjust the position of the iris in the viewport, and then align the patient eye with the external marker.

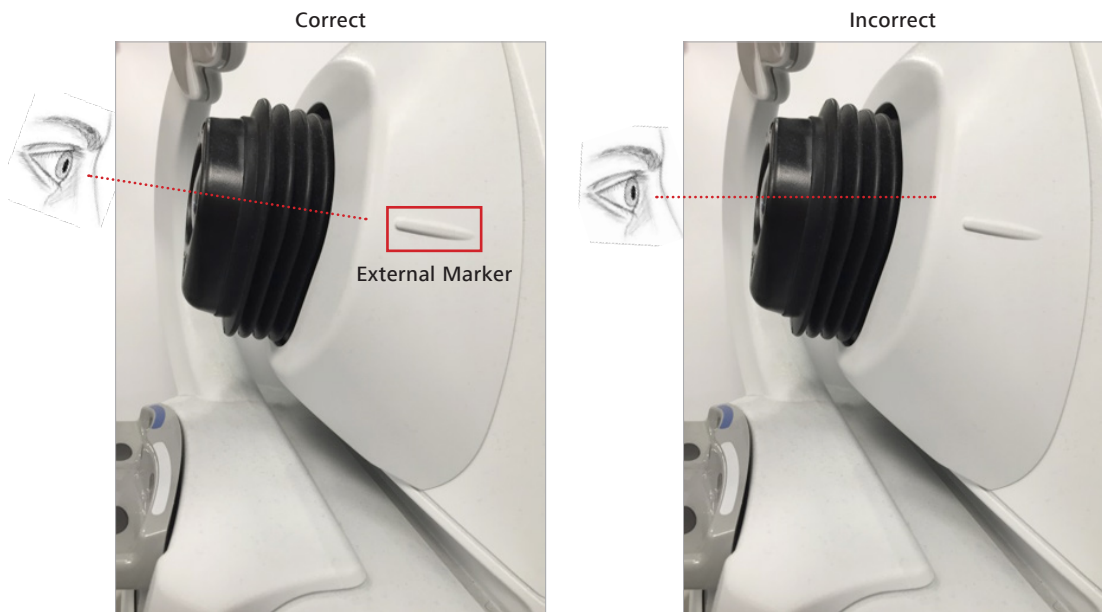


Figure 3

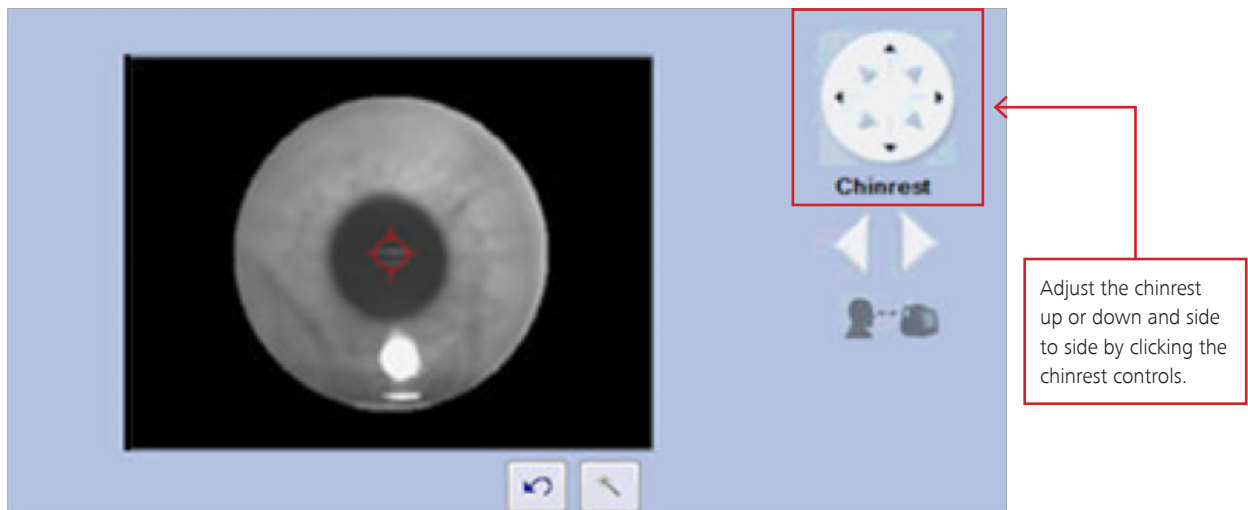


Figure 4

Focus the Iris Image

1. Focus the iris by adjusting the chinrest position using the triangular buttons on the chinrest controls (Figure 5). This will move the patient toward or away from the camera lens. Move the patient closer to the lens and make small adjusts until the iris is focused.
2. Center the iris image within the pupil crosshairs (Figure 6), and then click on the center of the pupil. The chinrest will automatically move to center the eye (Figure 7).
3. After clicking the center of the pupil, the iris will be centered. Click on center of the pupil again for fine adjustments if needed.

Tip: In patients with opacities, you may find clicking slightly off-center may produce a better result.

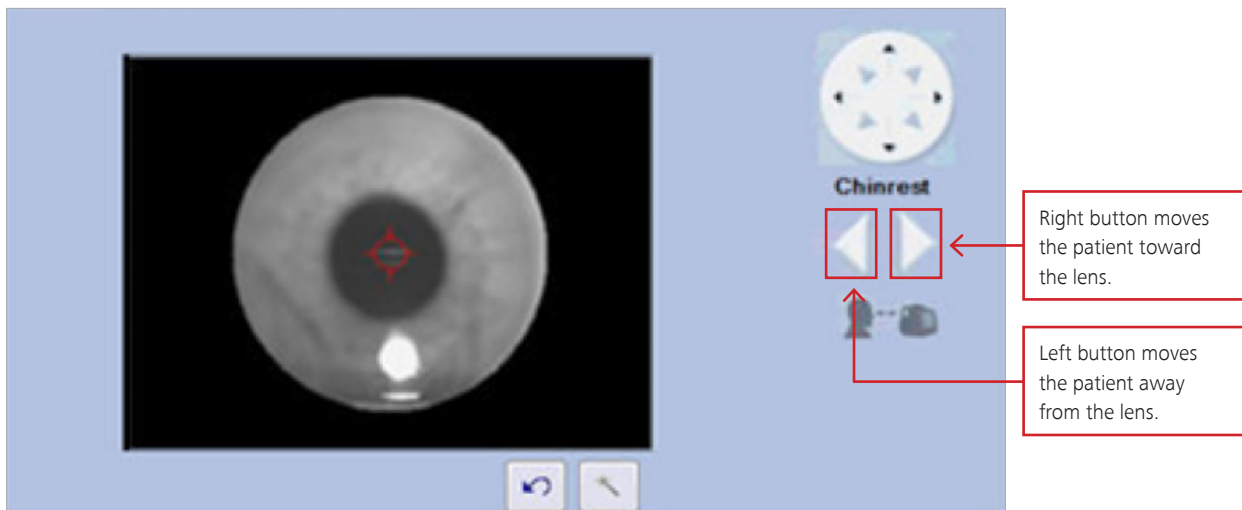


Figure 5

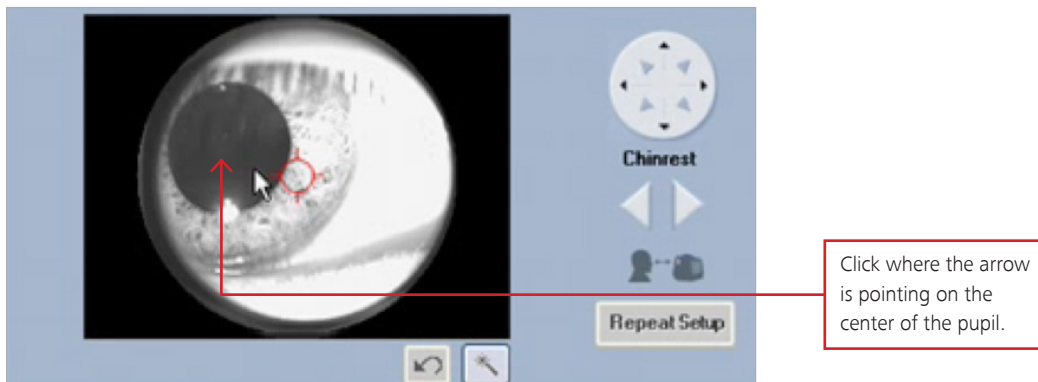


Figure 6

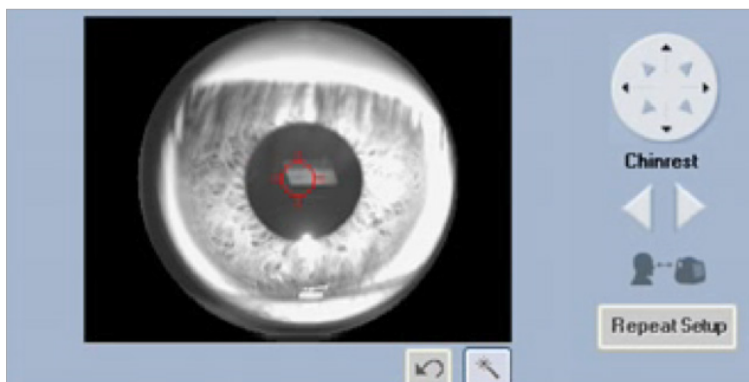


Figure 7

To capture the best quality image, instruct the patient to:

- Keep chin down
- Keep teeth together
- Place forehead against the forehead rest
- Move with the chinrest

If the iris image is dark, click on the **Magic Wand** tool (Figure 8). A pop-up window containing iris image controls for brightness, contrast and illumination will appear inside the iris viewport for manual adjustments.

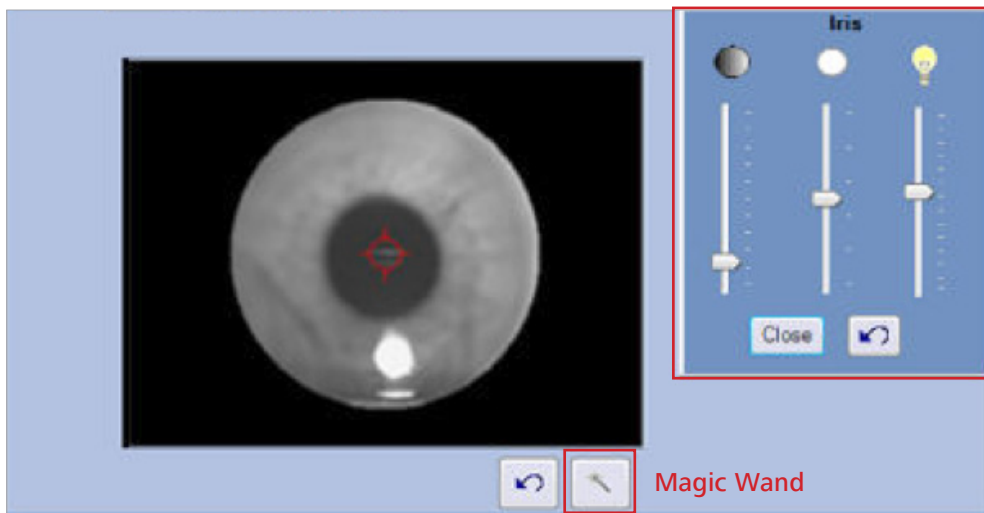


Figure 8

This concludes how to obtain a high-quality iris alignment. To complete the next step, see *How to acquire a high-quality scan on your CIRRUS HD-OCT (Part 2 of 3)*.

Refer to the CIRRUS HD-OCT user manual *Instructions for Use* for safe and effective operation of the instrument.