

# How do I acquire a high-quality scan on my CIRRUS HD-OCT? (Part 3 of 3 – OCT 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 3: How to obtain a high-quality OCT alignment.**

Before continuing on with the capture of an OCT image, it's a good idea to review the content of the **Acquire Screen** (Figure 1). The following example shows a Macular Cube 512x128 scan.

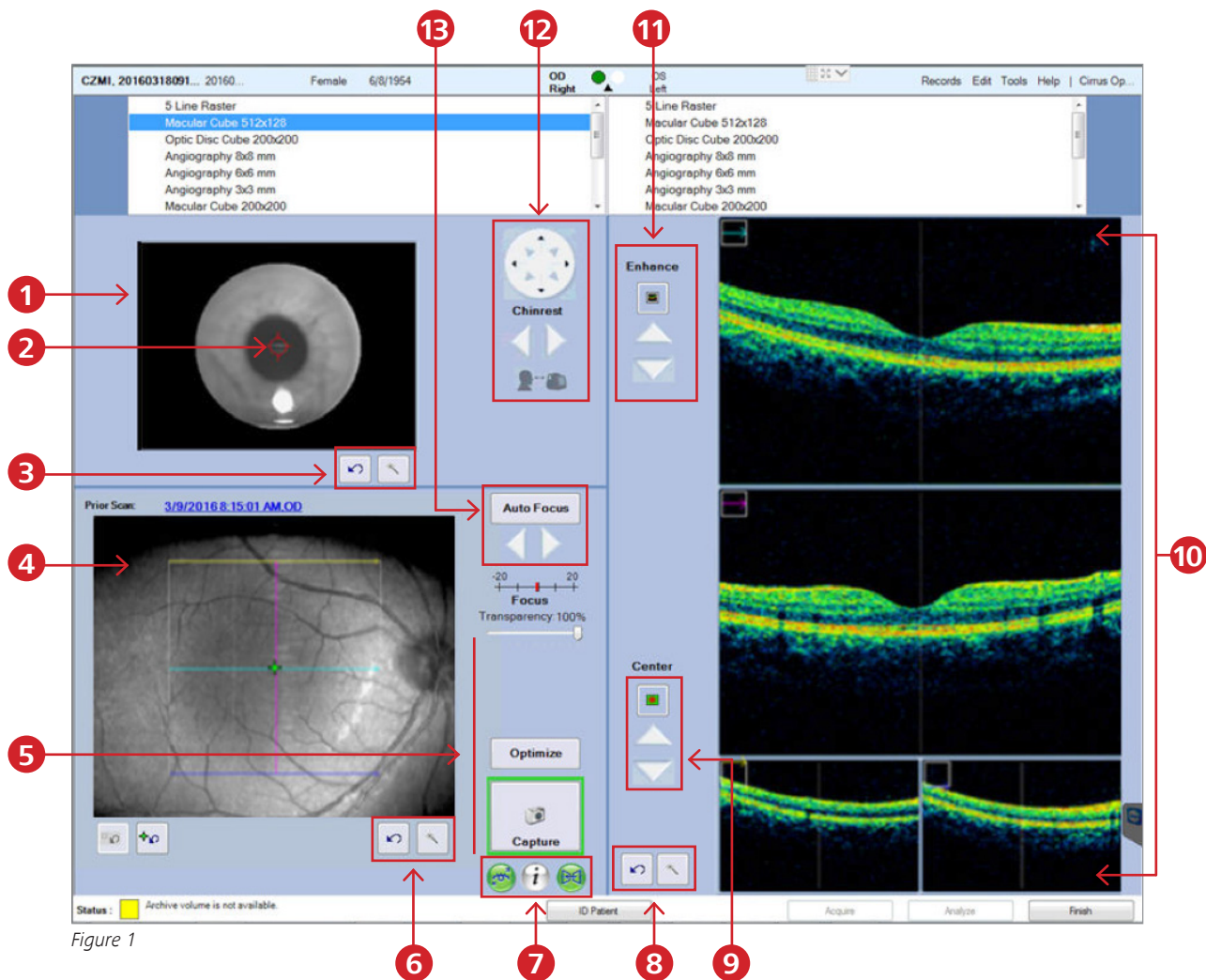


Figure 1

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

## OCT Scan

For optimal signal strength on OCT images:

1. Click on the **Optimize** button located in the Fundus Viewport (*Figure 2*). This will automatically enhance and center the OCT scan patterns.
2. To manually adjust the scan, click on the **Magic Wand** tool (*Figure 3*). Use the sliders to adjust your image as desired.

**Note:** A properly positioned scan is slightly above the center in each scan window. A good OCT scan should appear with the following image qualities:

- Bright
- Vivid
- Unbroken
- "Snow" in background

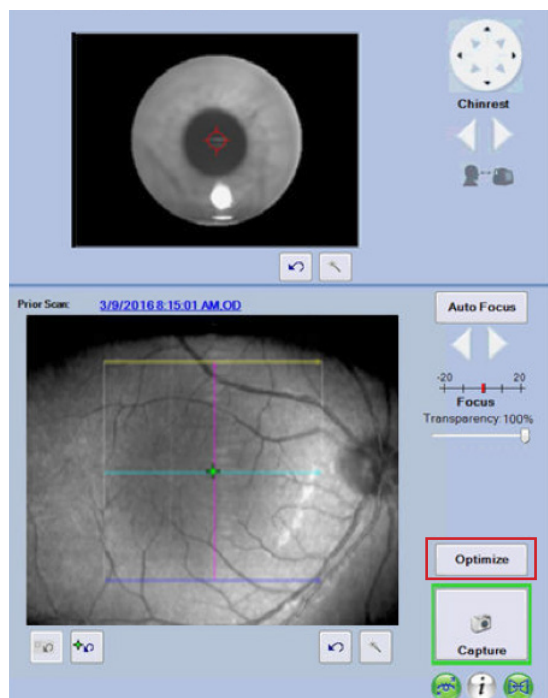


Figure 2

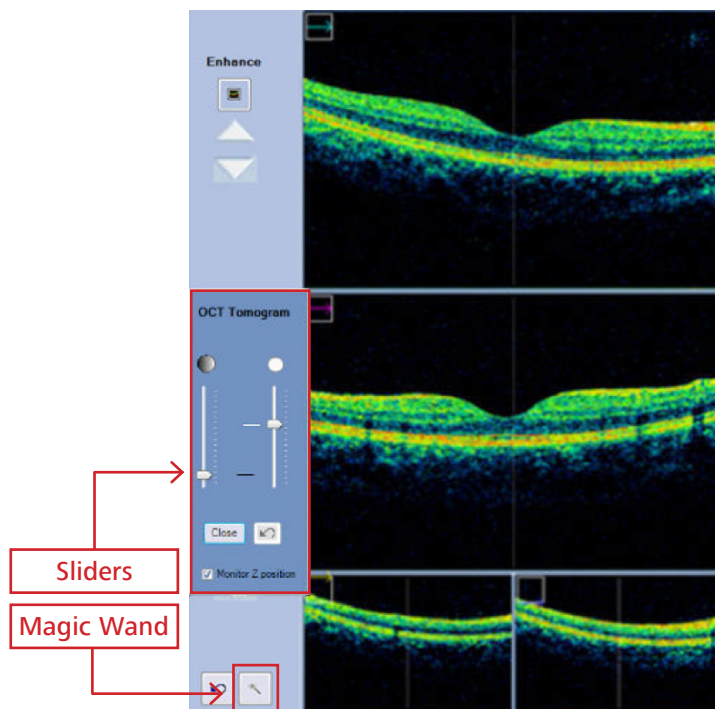


Figure 3

## Capture and Review Scan

1. After you have satisfied all previous steps in acquiring a quality scan, click **Capture** from the bottom of the **Acquire Screen**. A **Review Screen** will appear when a scan is acquired (*Figure 4*).
2. If the captured scan quality is acceptable, click **Save** and return to the **Acquire Screen** if you wish to capture another image. If the captured scan is not acceptable, click **Try Again** to go back to the **Acquire Screen**.
3. When you have finished acquiring scans, click **Finish** to go to the **ID Patient Screen**. This concludes capturing a good quality scan for OCT.

## Signal Strength Indicator

The **Signal Strength** indicator, located in the center of the Review Screen, applies to the over all scan and ranges from 0 to 10, with 10 being the maximum signal strength. When the value is less than 6, the indicator color is red (below acceptable threshold); when it is 6 or higher, the color is green (acceptable threshold).

**Note:** The best images are obtained when the signal is 8 or better for all scans.

## Fundus Image

There is a quality rating for the acquired Fundus Image for the posterior segment scans. A fundus image Quality score 6 or above confirms that the quality is satisfactory.

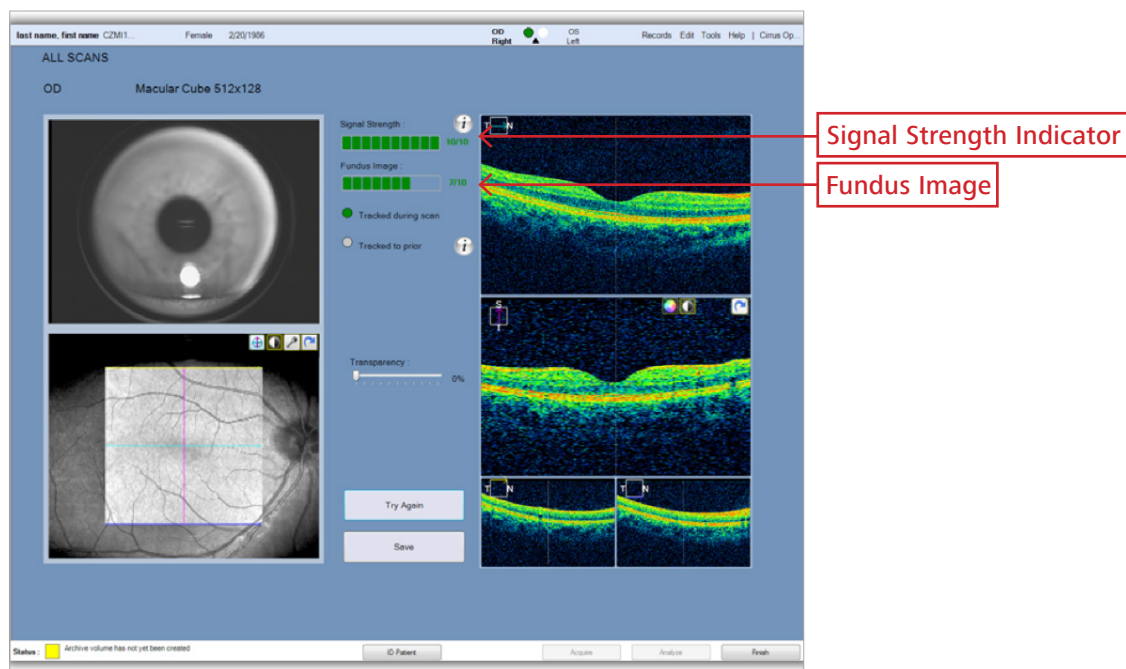


Figure 4

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