

Acquiring a Z-Stack Using the ZEISS LSM 510 META

Method 1 –First/Last (Manual Settings)

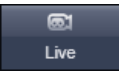
1. Check the Z-Stack box near the top of the **Acquisition Tab** to show the Z-Stack bar under the Multidimensional Acquisition settings



2. On the **Acquisition** tab under the **Multidimensional Acquisition** sub menu open the **Z-Stack** bar.

- Make sure the **Show all** box is checked as well.

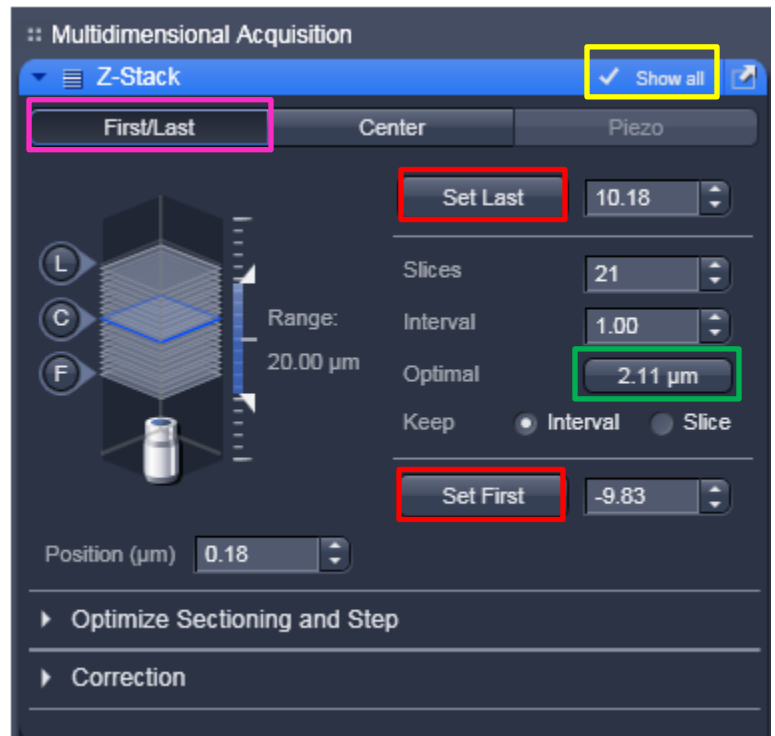
3. Select **First/Last**

4. Click  from the top of the Acquisition tab and adjust the focus to find your brightest slice to perform color adjustment.

5. Focus clockwise to where you want the last image of the z-stack – click **Set Last**.

6. Next focus counter clockwise to where you want the first slice of the z-stack – click **Set First**.

7. To acquire the smoothest Z-stack possible select the button next to **Optimal**.



8. Open the **Acquisition Mode** drop box under the **Online Acquisition** list and make sure the scan settings are set for the quality of image that you need.

9. Click **Start Experiment** to begin acquiring the z-stack, located near the top of the **Acquisition** tab.



10. Save Image

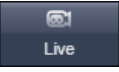
Method 2 – Center

1. Check the Z-Stack box near the top of the **Acquisition Tab** to show the Z-Stack bar under the Multidimensional Acquisition settings



2. On the **Acquisition** tab under the **Multidimensional Acquisition** sub menu open the **Z-Stack** bar.

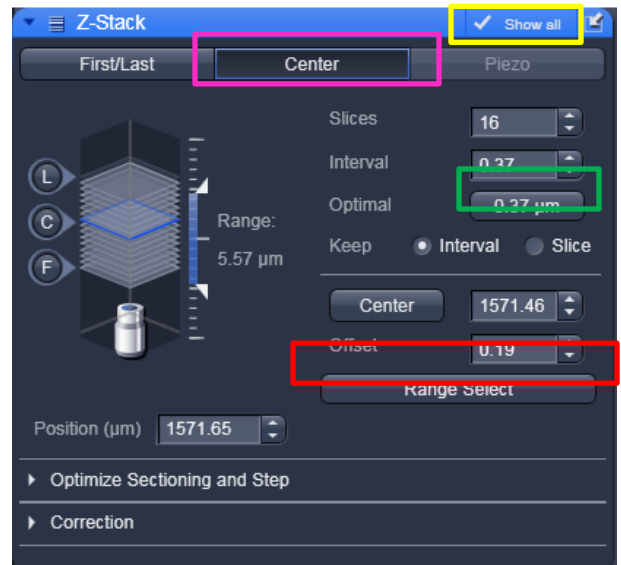
- Make sure the **Show all** box is checked as well.

3. Click  from the top of the Acquisition tab and adjust the focus to find your brightest slice to perform color adjustment.

4. Select **Center**

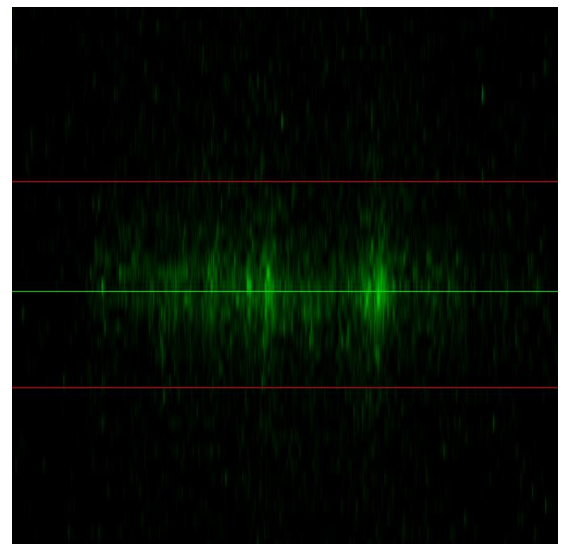
5. To acquire the smoothest Z-stack possible select the button next to **Optimal**.

6. Click **Range Select**



7. Move the **green** line to the approximate center of your specimen.

8. Move the **red** lines to the desired top and bottom of your specimen.



9. Return to the **Acquisition Mode** drop box under the **Online Acquisition** list and make sure the scan settings are set for the quality of image that you need.

10. Click **Start Experiment** to begin acquiring the z-stack, located near the top of the **Acquisition** tab.

11. Save Image

