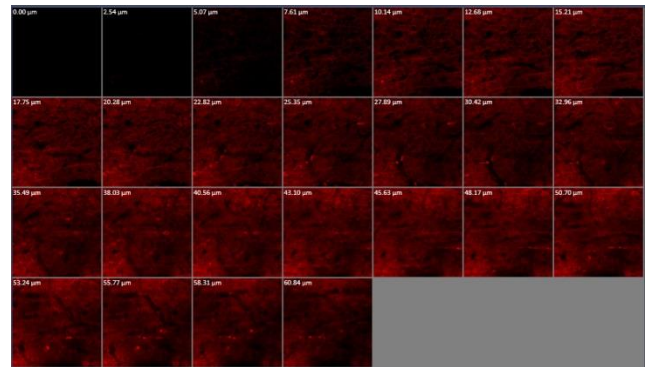
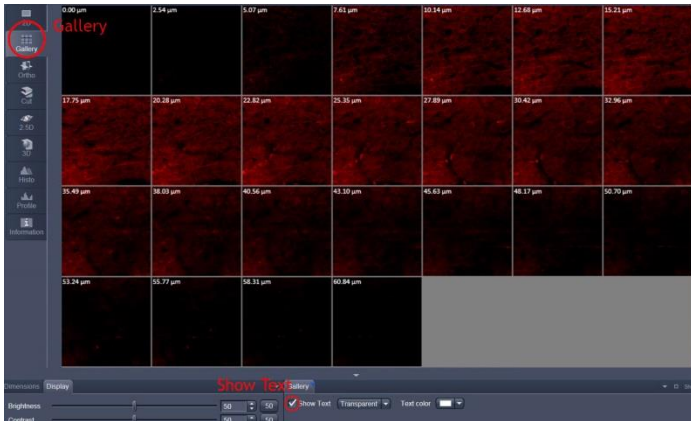


2015-10-29

Auto Z Brightness Correction 20131121.docx

## To correct Z-stack brightness for thick specimens



Set optimal scanning parameters for each channel.

Set low resolution fast settings  
(256x256pixels, speed 8, average 1)

Set Z-stack limits with optimal interval  
(Z-Stack set first, set last).

Press Start Experiment

In **Gallery** view (left tabs), **Gallery** tab (bottom tabs) with **Show Text** checked, note the last satisfactorily bright slice (in this example 30.42)

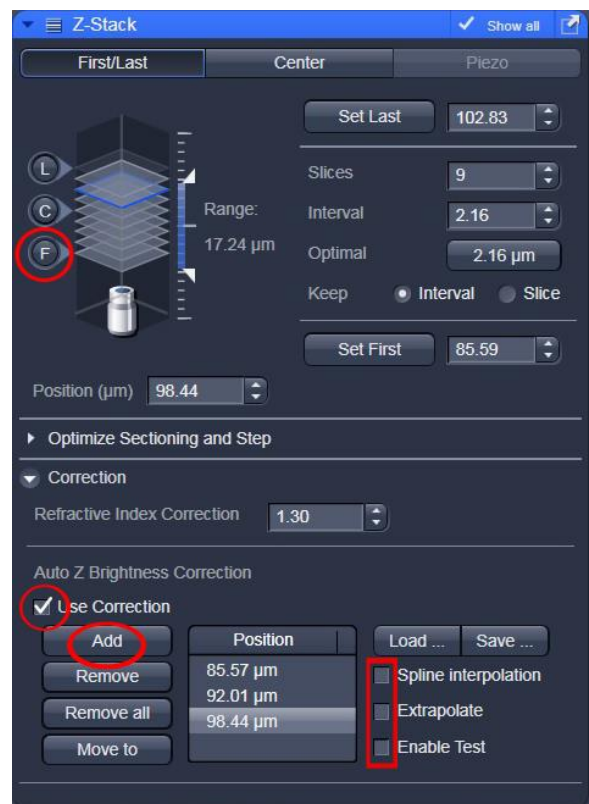
*Move to first slice:*

in **Z-Stack** <double-click>

In **Z-stack**, **Auto Z Brightness Correction** (bottom) check **Use Correction**

*Add the current position+settings to correction list:*

In **Z-stack**, **Auto Z Brightness Correction** (bottom) press **Add**



In **Focus** you cannot enter a value at **Z-position** to move the stage to a position, but you can enter a value at **Step Size** and then use the arrows next to **Z-position** to move the stage to the right Z. Do not press the arrows repetitively and fast, because the movement will not be precise.

In **Focus** change **Step Size** to the value of the last satisfactory slice.



*Move to the last slice you wish to leave at original settings.*

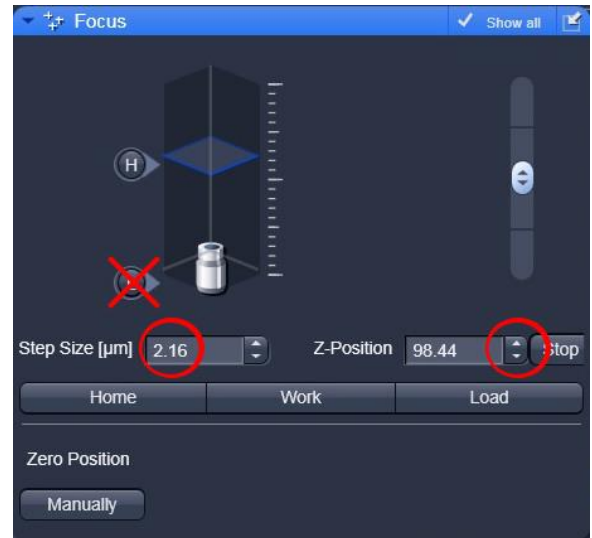
In **Focus** press once the **Z-position** up arrow

*Add the current position+settings to the correction list:*

In **Z-stack**, **Auto Z Brightness Correction** (bottom) press **Add**

*Move to last slice*

In **Z-Stack** <double-click>  *Do not use the  of **Focus**, this moves the stage to the loading position!!!*



Change laser/gain/offset settings at the last slice

*Add the current position+settings to correction list:*

In **Z-stack**, **Auto Z Brightness Correction** (bottom) press **Add**

Uncheck any checked options in **Auto Z Brightness Correction**

Prescan **Z-stack** in low resolution, fast settings

Change to acquisition settings (e.g., 1024x1024 pixels, speed 7, average 2)

Press 