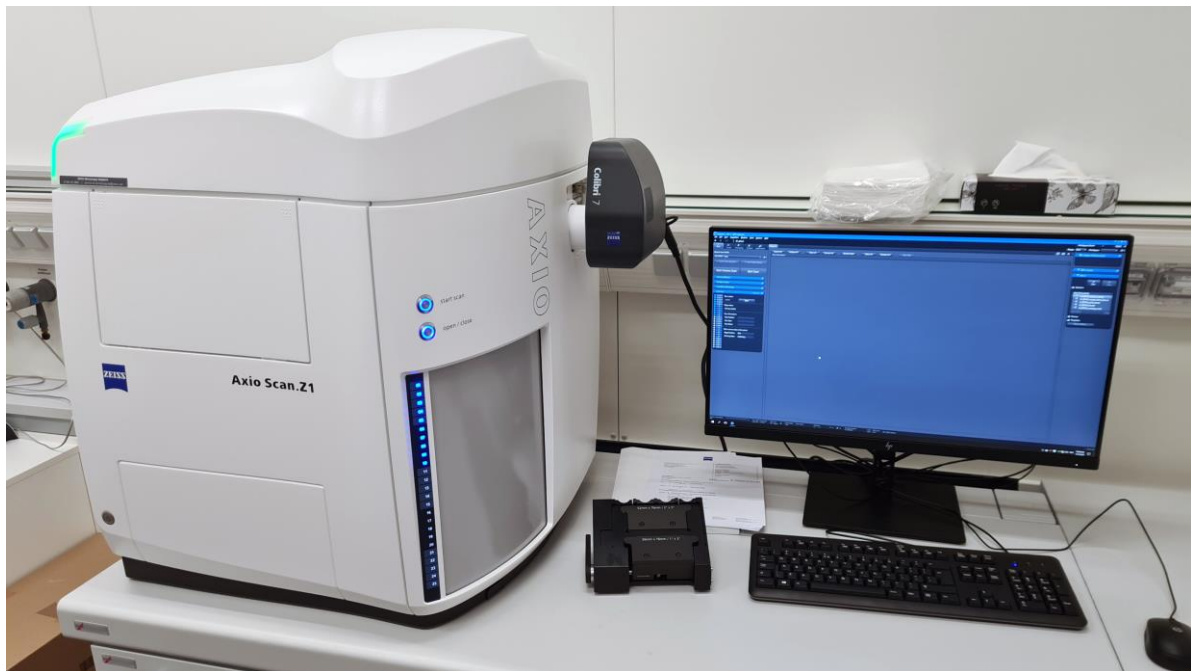


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Starting the system

- Turn on the multi socket attached to the table left behind the instrument
- Make sure the instruments main power is switched on (at the lower instrument side close to the multi socket)
- Turn on the instrument (left front of the instrument)
- Turn on the PC (below the table)
- and the monitor

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Prepare the system Loading procedure

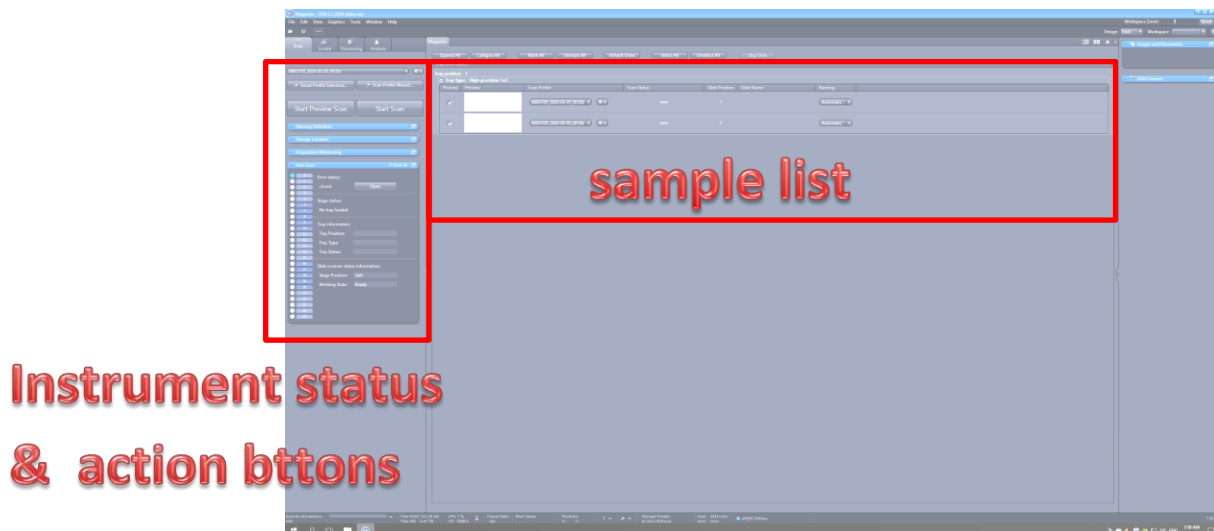
- Take a slide holder from the drawer below the table and place up to 4 slides per holder. Use the tool to insert your slides into the holder (insert your slides with the coverslip facing up)
- Open the door of the system by pressing “open/close”
- Open a drawer and place your sample holder inside (coverslip side up)
- Repeat the loading procedure with all your slides

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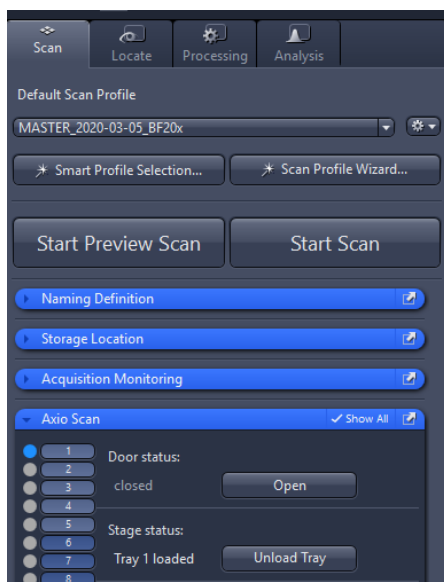
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Start the software:



- Start the blue Zen software
- Choose the user account and select “start system”
- After starting the „slide scan” option you will see your slides listed per tray in the “sample list”
- On the left side of the software you can find the “instrument status and action buttons”
- First make sure to choose the correct “storage location” in the storage location drop down menu. All slide scan images will be automatically stored into that folder (even the preview scan images)

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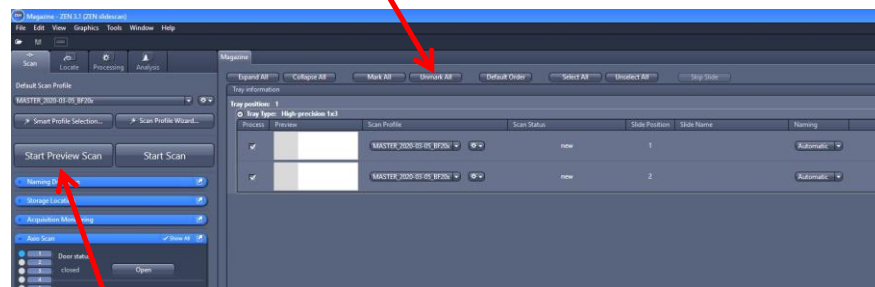
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Preparing the scan:

- For the start please only mark one of your slides (choose a positive control / strong labeling, if possible) use the “unmark all” button if needed and select the slide by activating the corresponding the tick box



- To start the measurement process choose an appropriate “scan profile” from the “default scan profile” drop down list
- Press the “start preview scan” button to get an overview image of your tissue. The slide icon will change its appearance after finishing the preview scan

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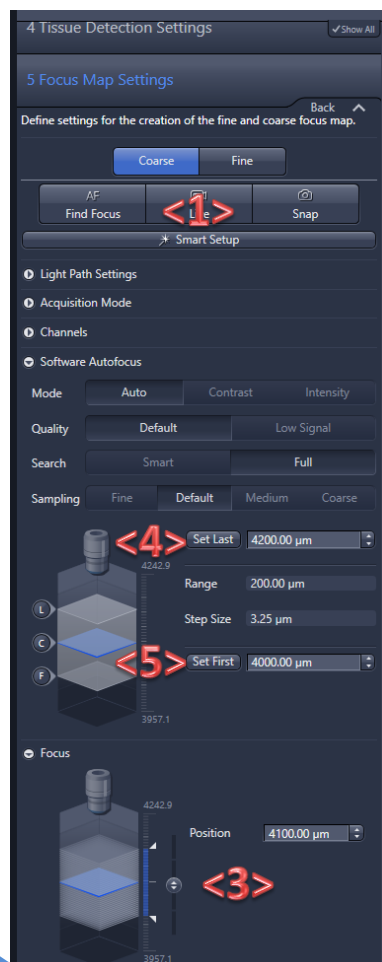
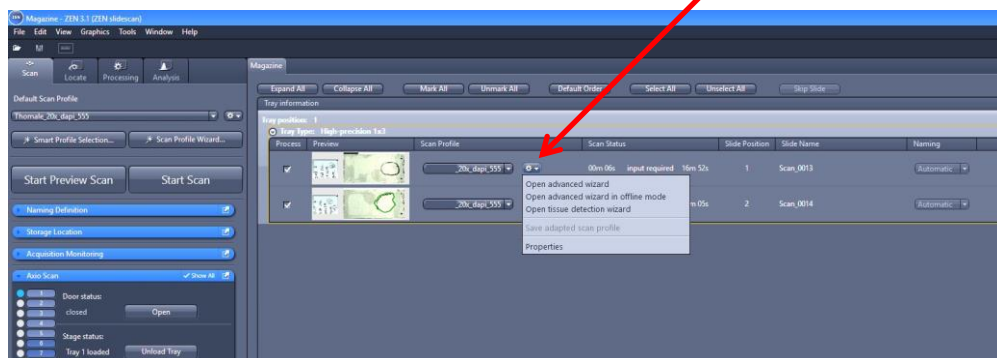
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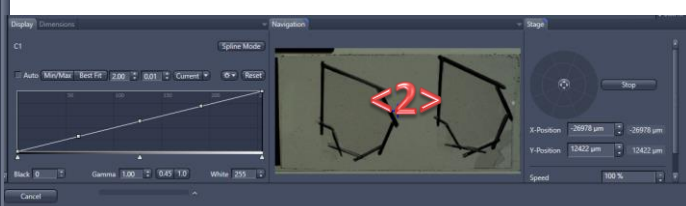
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**Advanced wizard adjustment
And focus map settings:**

- Click on the little tool-wheel
- And select “open advanced wizard”



- Select the “focus map settings” in step number 5 in the new setup window
- Activate the live button <1> and navigate to your sample in the mini icon view <2> on the bottom of the software –you can just click anywhere to navigate through your sample
- Choose a good focus with the little round-button focus slider <3> or choose the “find focus” acquisition mode <1>
- Read the stage position value <3> and compare to the “set first” <4> and “set last” <5> position value
- Make sure the actual focus position is well in the middle of the focus range. Otherwise adjust the range to be about 300μm around the focus

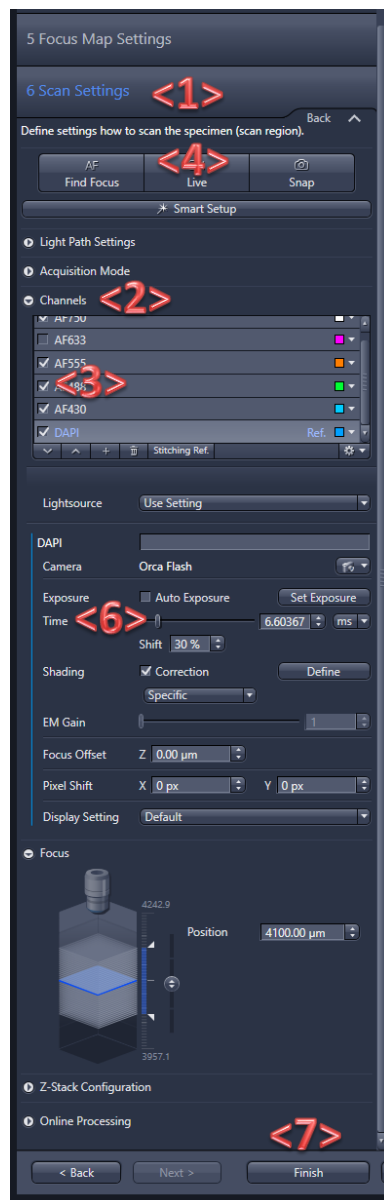


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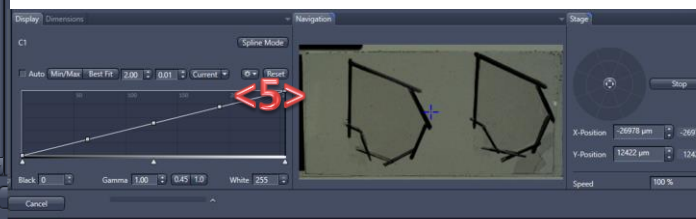
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 Advanced wizzard adjustments
 Scan settings:


- Select the „Scan settings“ <1> in step number 6
- Open the Channels <2> tab and select the labels you have stained on your slide by activating the corresponding tick-box
- Highlight one of the fluorochromes <3> and activate the “Live” <4> button
- Make sure the display adjustment is in the reset mode <5>.
- Adjust the exposure time <6> to get a proper signal intensity. But keep in mind staining intensities might vary through your tissue. To avoid saturation move the field of view to different positions over your tissue
- Repeat for all other stainings on your tissue
- Click on “Finish” <7>



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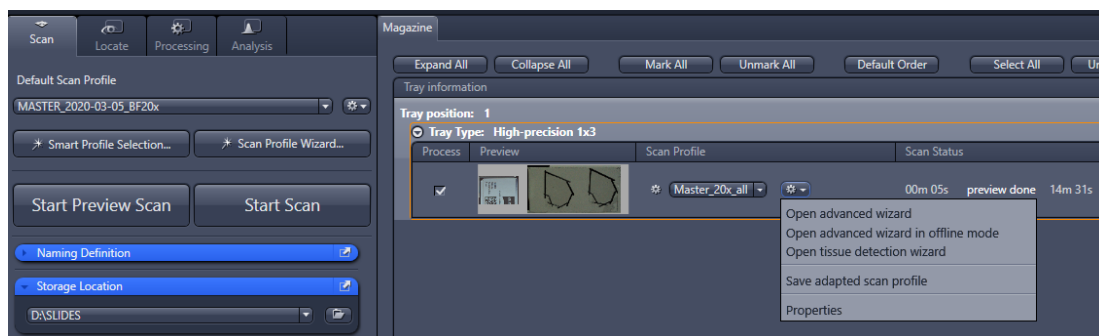
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Scan settings

Starting the measurement:



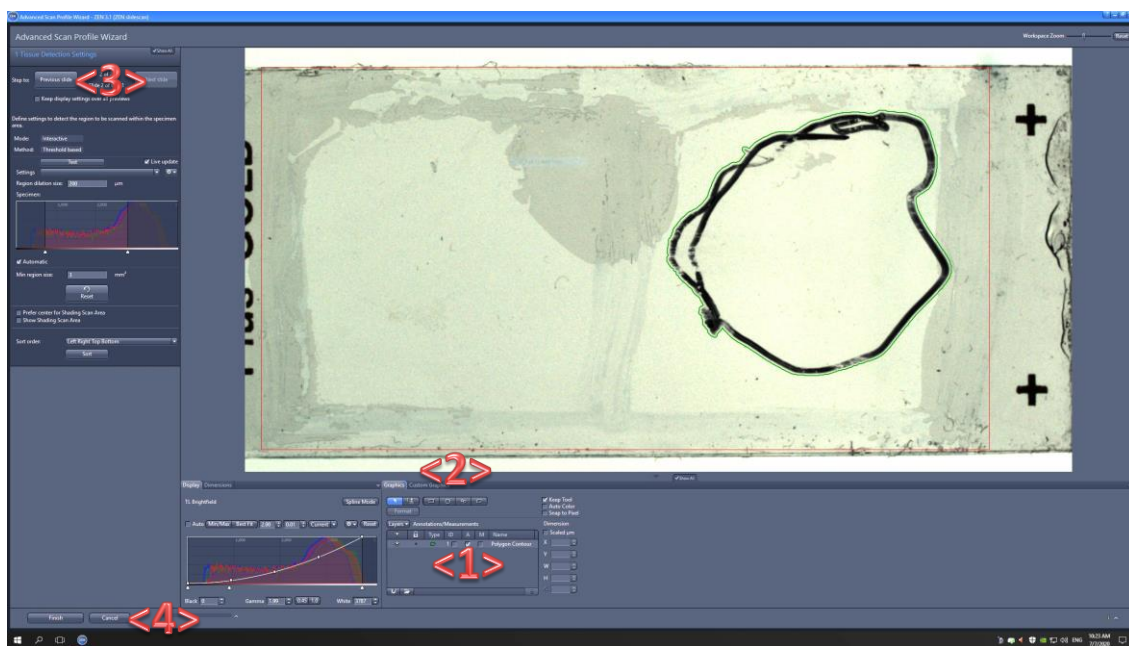
- Save your „adapted scan profile“ by activating the tool-wheel and selecting the „save adapted scan profile“ option
- Now use the “mark all” option to activate all your slides for the next action
- Choose your adapted scan profile from the drop down list from the left upper part of the software
- All slides are now assigned to your selection
 - Change manually:
Note! The “scan profile” will only be changed for slides without a preview scan image.
Also your control slide will not change to the freshly chosen profile.
- Select “Start Preview Scan” button to get the tissue overview images of all of your slides

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Scan settings
Tissue detection

- Click on the little tool wheel again and select: “open tissue detection wizard” to check the scan area for all your slides
- If you have hardly visible tissue it might be a good option to put a marker label around your tissue before scanning
- Have a look into the list at the bottom of the screen <1> to see how many different tissues were detected by the automated detection. Here you can also mark and delete them
- You can also add new scan regions by using one of the ROI buttons <2> and draw on your preview slide image.
- Use the next slide button <3> to toggle to the next slide
- Check and change the ROI settings for all your slides
- Use the “finish” button <4> after adjusting the last slide

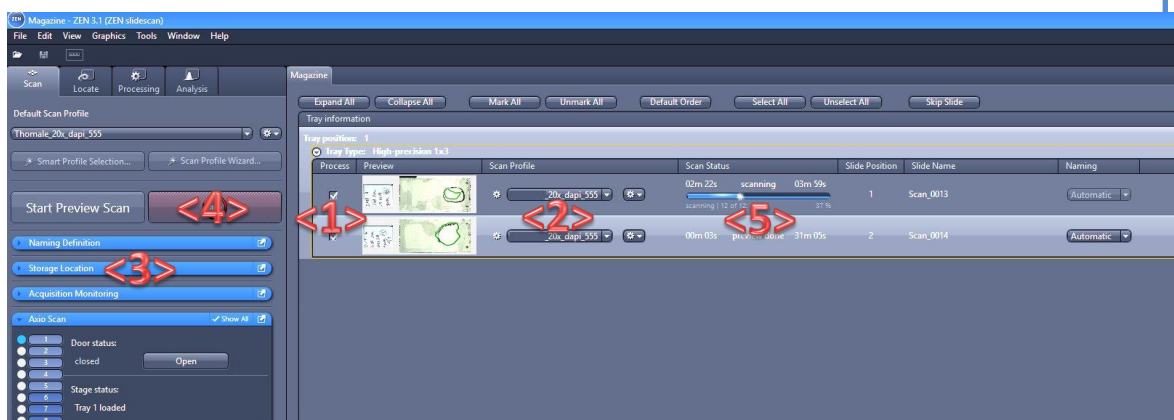
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Start Scan



- Make sure all relevant slides you want to scan are ticked <1>
- If the Scan Profile <2> is correctly chosen and the
- Storage location <3> is correct
- Use the "Start Scan" button <4> to let the system scan your samples
- After a short time the Software is showing up a process bar <5> where a rough estimation of the scan time per slide can be found
- After each slide scan is finished you can have a look on the result by performing a double click on the preview image to open up a new window with your final scan result
- In the Info-tab on the left beside you image your slide-label scan image can be found (choose the 2D tab again to switch back to the slide view)

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Shut down procedure

- Take off your data from the Computer and delete from the hard drive on a regular base. Otherwise your data will be deleted without backup after 3 month latest.
- Take off your samples from the instrument and place the sample holders back into the drawer
- Shut down the software
- Shut down the instrument on the front-button first and wait until the indicator light at the left side of the instrument turns off
- Toggle the switch at the left instrument side to the off position
- Turn off the electric socket
- Shut down the Computer