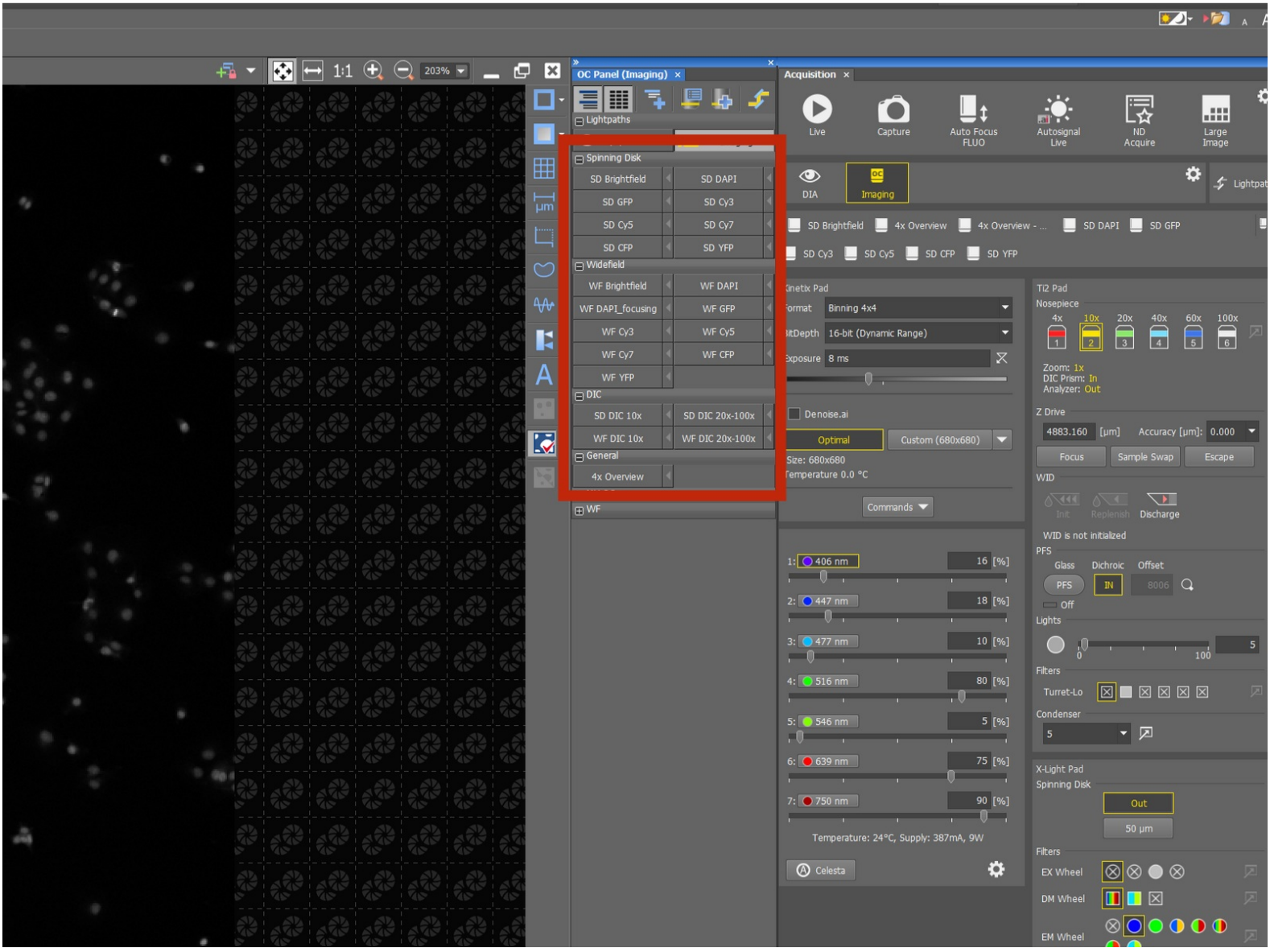
Nikon SD: Setting up a profile

Written By: Eliska Macickova

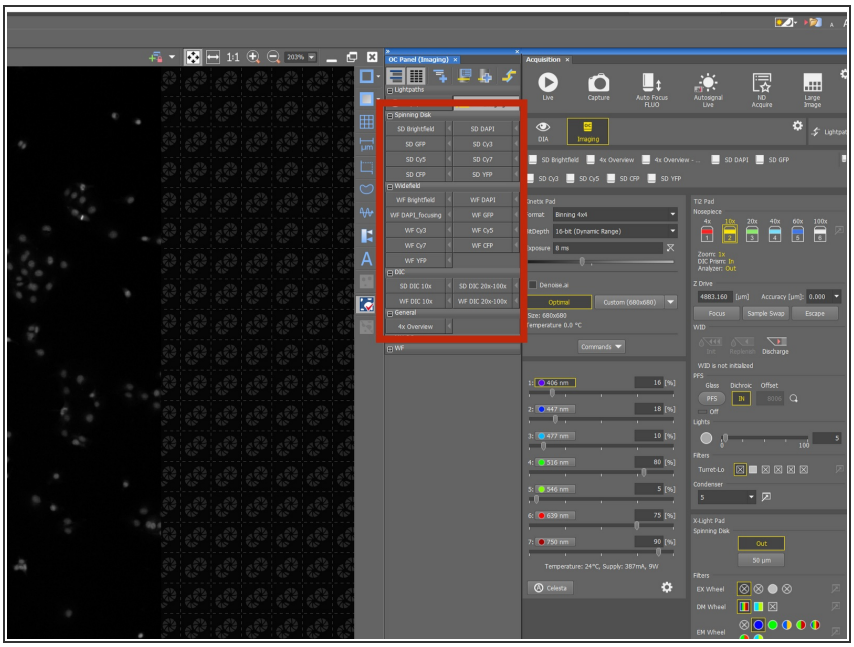


INTRODUCTION

This guide will show you how to organise your profile in NIS-Elements.

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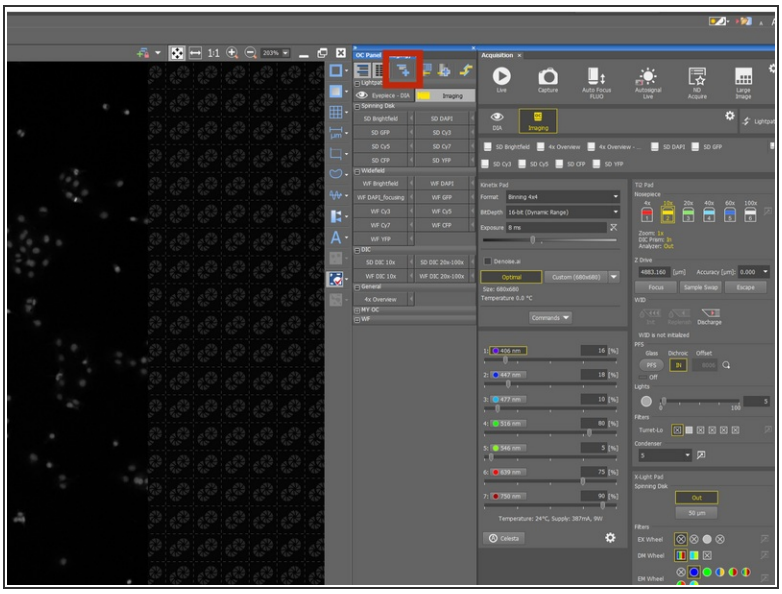
Step 1 — General information

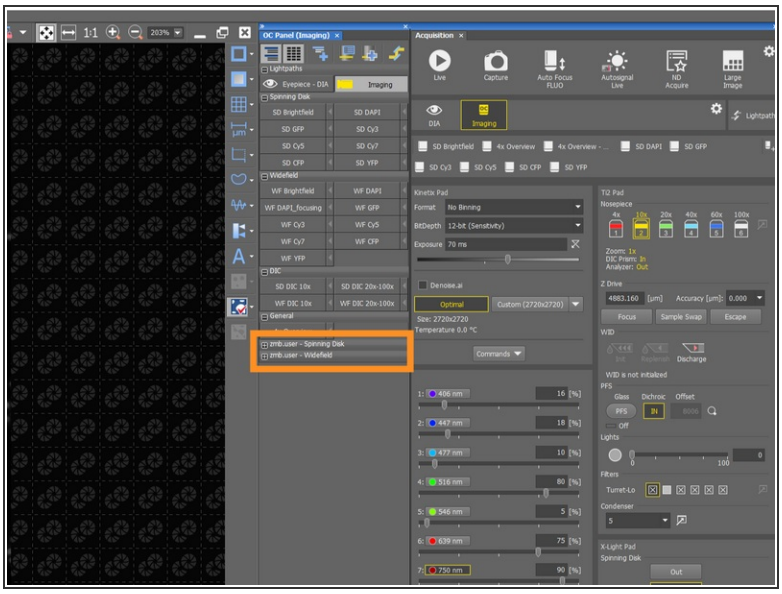


ⓘ OC = Optical configurations, are like channels. In order to detect only signal from a specific dye, there has to be a specific filter/dichroic mirror, etc. in the optical path. And so that we don't have to set these elements manually in the SW, they are saved in so-called OCs.

- There is a set of pre-defined OCs available in your profile
  - This OCs are **shared across users** - and therefore the attributes like *exposure time, bit depth, ROI,* ... can be changed by anyone
  - If you want to have a private OCs and be sure you have consistent settings for your measurements we recommend to duplicate them in your folder

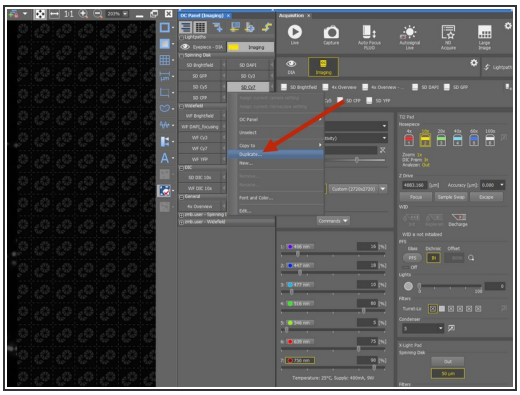
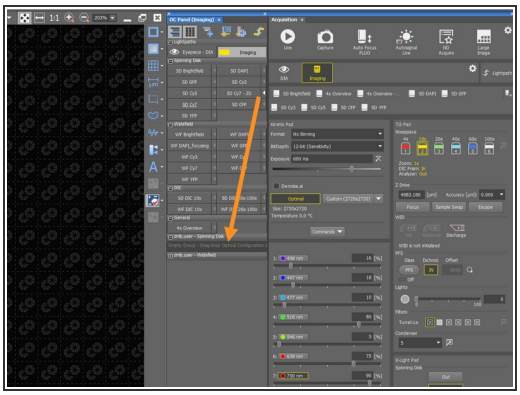
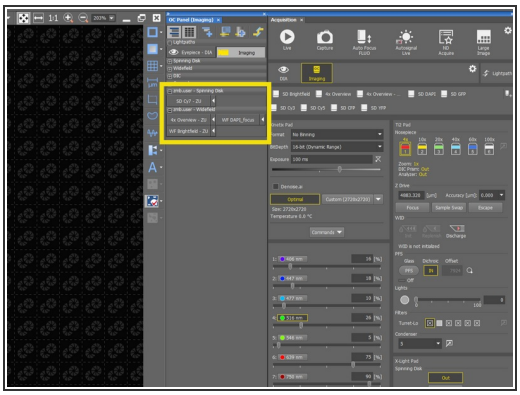
Step 2 — Create a folder





- If you want to create a sub-folder for your OCs:
  - Click on the **New Group** and name the folder
  - New groups will display below the shared OCs
  - ⓘ We recommend to follow the structure and create a sub folder each for WF, SD and DIC (if needed)

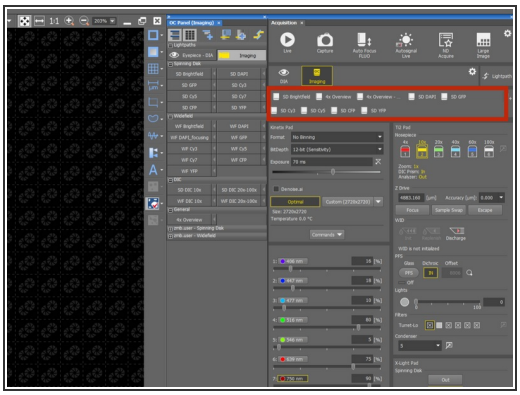
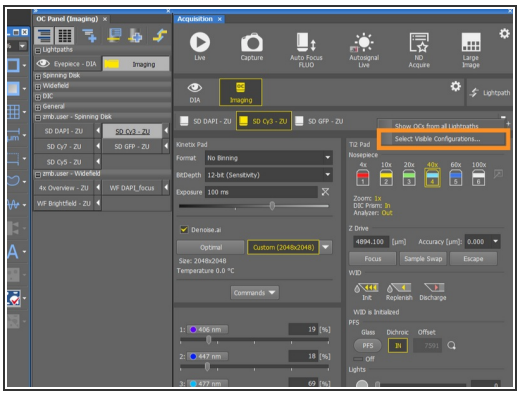
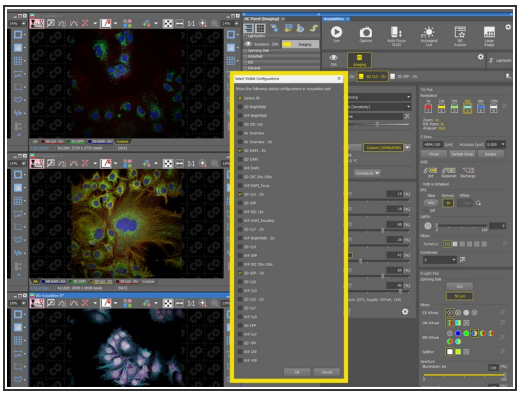
Step 3 — Duplicate the OCs and make them private

- Right-click on the OCs you would like to use and duplicate
- Rename the OC - in this case we used the original name and initials from **Z**mb **U**ser
  - ⓘ For the naming you can also use what makes sense for you - e.g. excitation laser **(488)**, or name of the dye you are using **(GFP)**
- Drag and drop to your folder
  - ⓘ With this, the OCs became your private ones - meaning, if you want to use consistent bitdepth or exposure time it will be saved in your OC
- They will appear in your folder.
- You can like that copy only those you are using for your experiment - in this case: WF DAPI and BF, and SD Cy7

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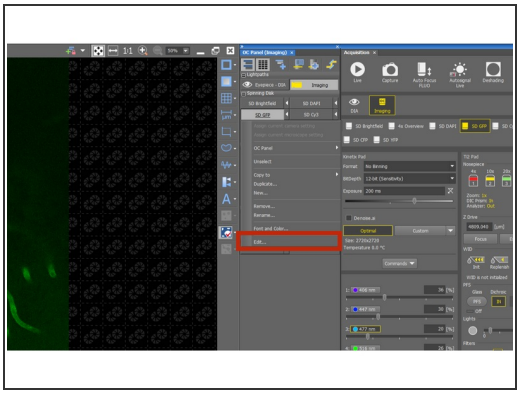
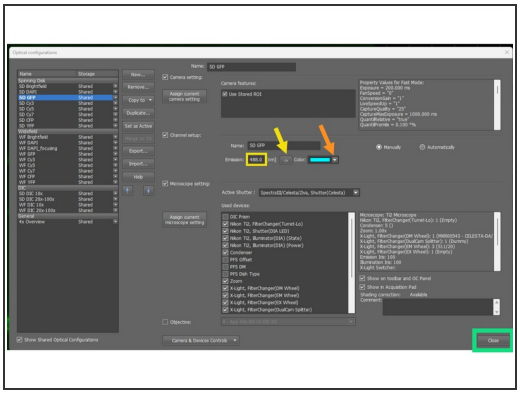
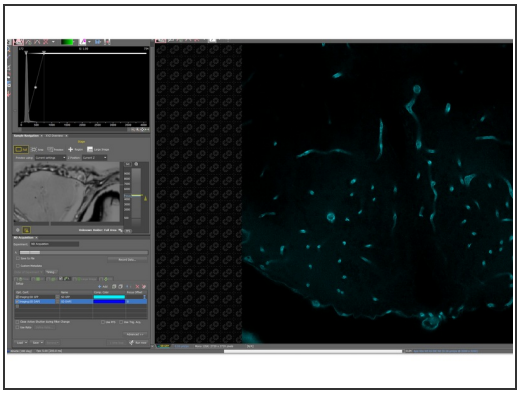
Step 4 — Adjusting OC panel

ⓘ This step will help you to adjust the OC panel, so you can have an easy access to those that you use the most

- Localize the easy access OC panel
- Right-click on the panel and choose *Select Visible Configurations*
- You can choose which of these OC you want to have displayed on the panel above for easy access.

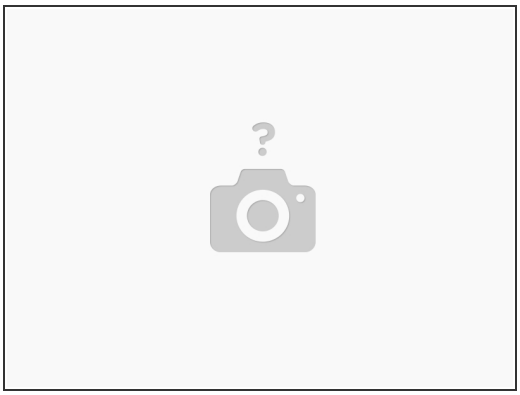
Step 5 — Changing color in OC

- Rightclick on your OC and choose **Edit**
  - You can choose from drag-and-drop menu from predefined colors
  - Or you can specify color by wavelength and assigning by clicking on the arrow
- Once you are happy with new color, you can close the window and changes will take place

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Step 6 — For staff - To be run during initial training



- Log in and start NIS elements
- Go to Macro < Open
- Select the file under C:\Nikon Service\IntroduceUserMacro.mac
- Go to Macro < Run

ⓘ This macro - Sets temporary file directory to D: drive, Changes what is saved to OCs automatically, Initial Zoom of Window to fit not to 100%, Load default Layout, Set timelapse index to start with 0