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I. INTRODUCTION

We advise to start by creating at least one “system”, one “acquisition profile” and one “channel” in Daybook Data Manager. This will make possible the saving of the data obtained from Daybook Analysis.

A “system” is the imaging device you would like to manage the quality data. It can be a regular fluorescence microscope (wide-field, confocal, SIM, etc.), a slide scanner, an HCS/HTS plate imager, etc.

An “acquisition profile” is the set of components of a system that are used to acquire the patterns images of Argolight hardware products.

A “channel” is the set of image acquisition settings that are used to acquire the patterns images of Argolight hardware products.

One system can have several acquisition profiles.

Several channels can be included in the same acquisition profile.

II. CREATE A SYSTEM CONFIGURATION

1. HOW MANY SYSTEMS CAN I CREATE?

Several systems can be managed through Daybook Data Manager.



The number of systems available within your license is displayed within the “Systems” menu, on the top right corner (cf. Figure 1). The number of systems you can manage depends on the license you purchased. To modify this limit, please contact Argolight (contact@argolight.com).

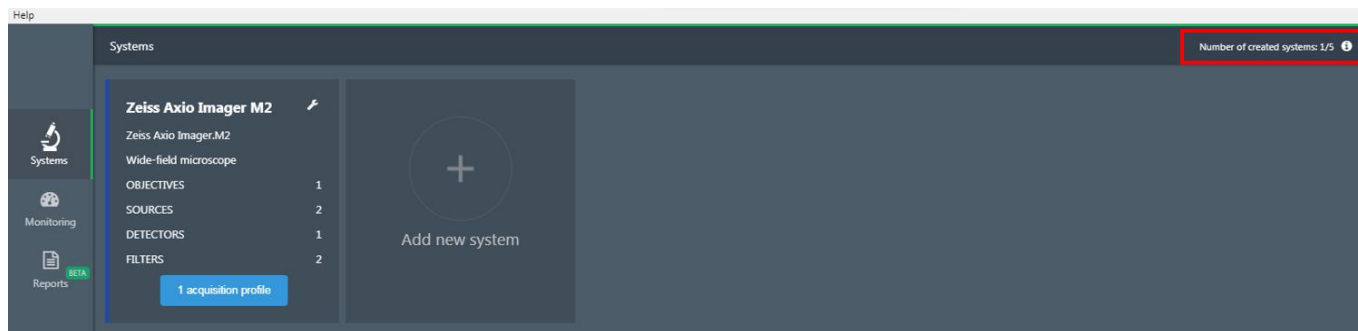


Figure 1: Number of systems available.

2. SET YOUR IMAGING SYSTEM

1- Create a System

Within the “Systems” menu, click on “Add new system” (cf. Figure 2).

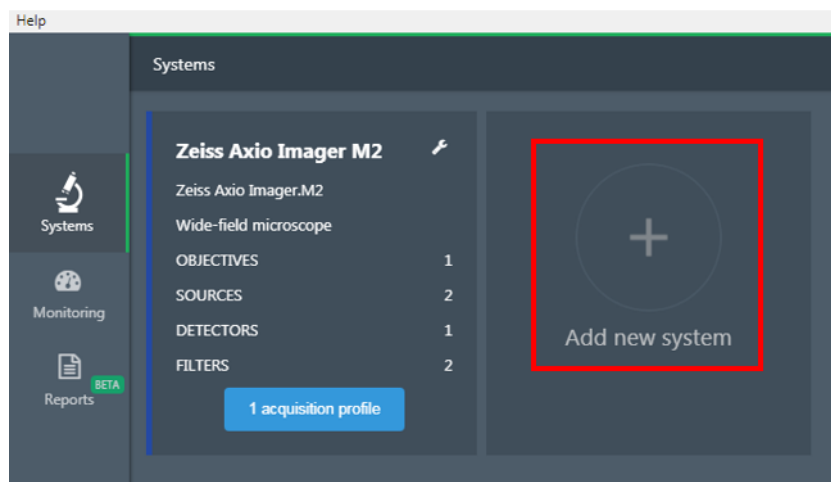


Figure 2: Add a new system.

A window will appear where the system’s details and components can be described (cf. Figure 3): light source, detector, filter, objective, XY stage and Z stage.

At least one light source, one detector, one filter and one objective must be filled out to create the system. XY and Z stages are optional.

However, we recommend creating all the items that are available on your system. You will be able to select later which one you want to track (see Section II – Create an acquisition profile).

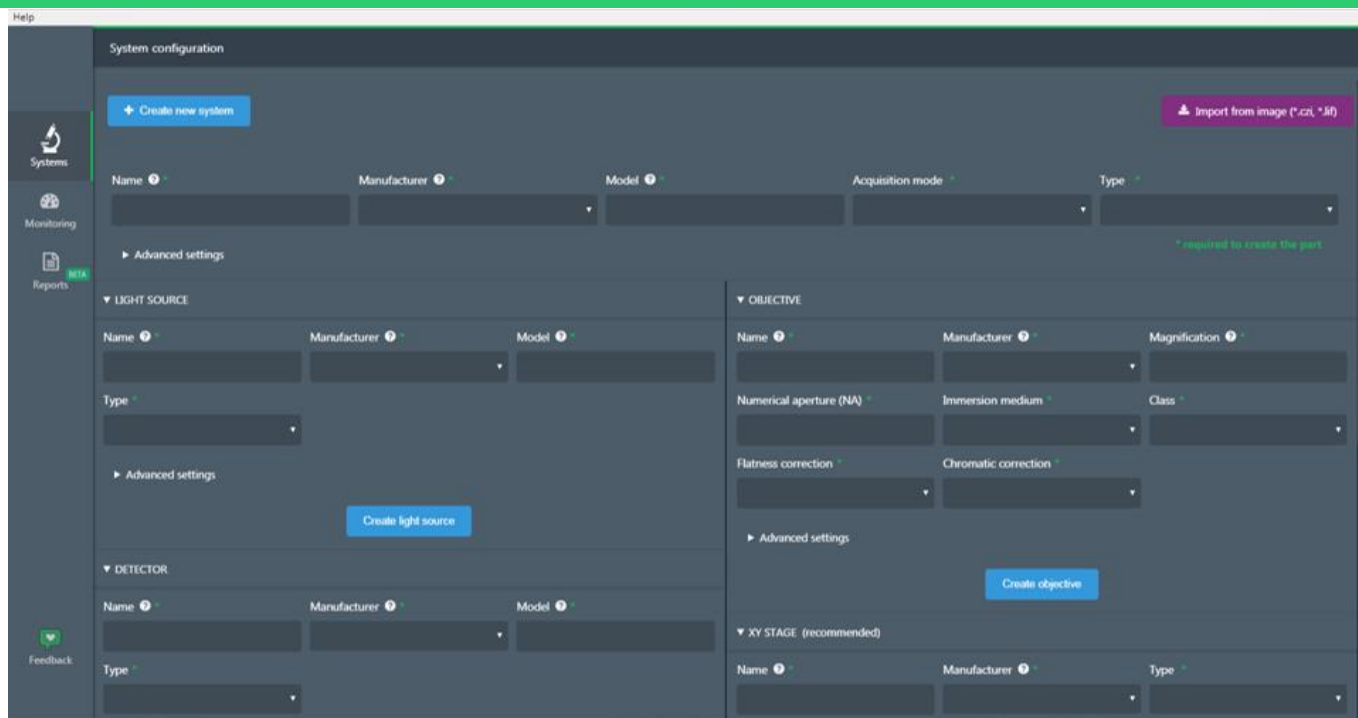


Figure 3: System configuration panel.

You can either create the component by filling-in manually the forms fields, or by importing the information about the system directly from a proprietary image file, thanks to the purple “Import from image” button. The extensions of the proprietary image files that can be used are: CZI, LIF, ND2, OIB, XDCE and MES/MRF.

Note: The pre-filling-in of the forms is partial, as all the information is not available in the image metadata. It is also recommended to cross-check the pre-filled information, to make sure there is no mistake.

Enter a name for this system components and the manufacturer’s name. More details can be entered for each component in the “Advanced settings” (cf. Figure 4).

Click on the blue button “Create light source” (or “detector”, or “filter”, or “objective”, etc.) to create the system’s component. An unlimited number of components can be added.

Once the mandatory fields are filled in, click on “Create new system” to validate the system.

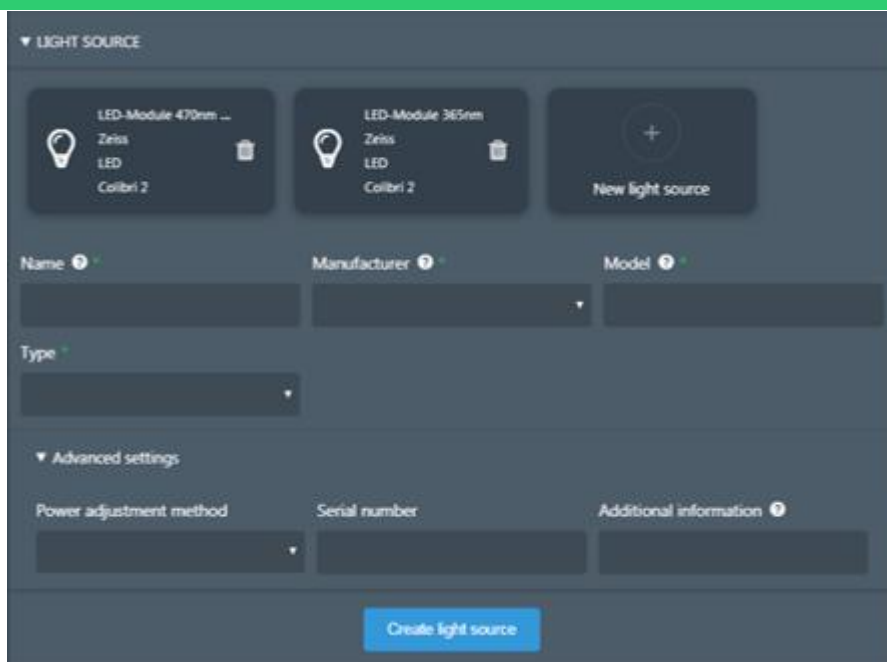


Figure 4: Advanced settings of a system's component (here, the light source).

2- Delete, edit or duplicate the system

Click on the wrench icon to either edit or delete the system. There, you can also duplicate the system and its components to gain time when creating a new system (cf. Figure 5).

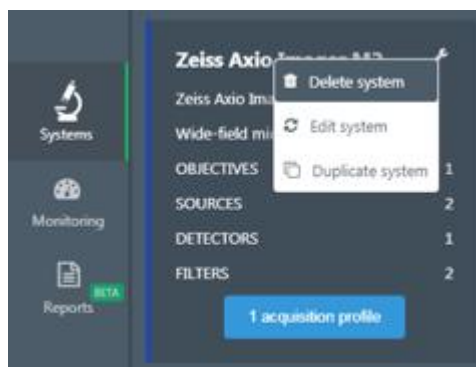


Figure 5: Delete, edit or duplicate a system.

An example of a fully configured system is shown in Figure 6.

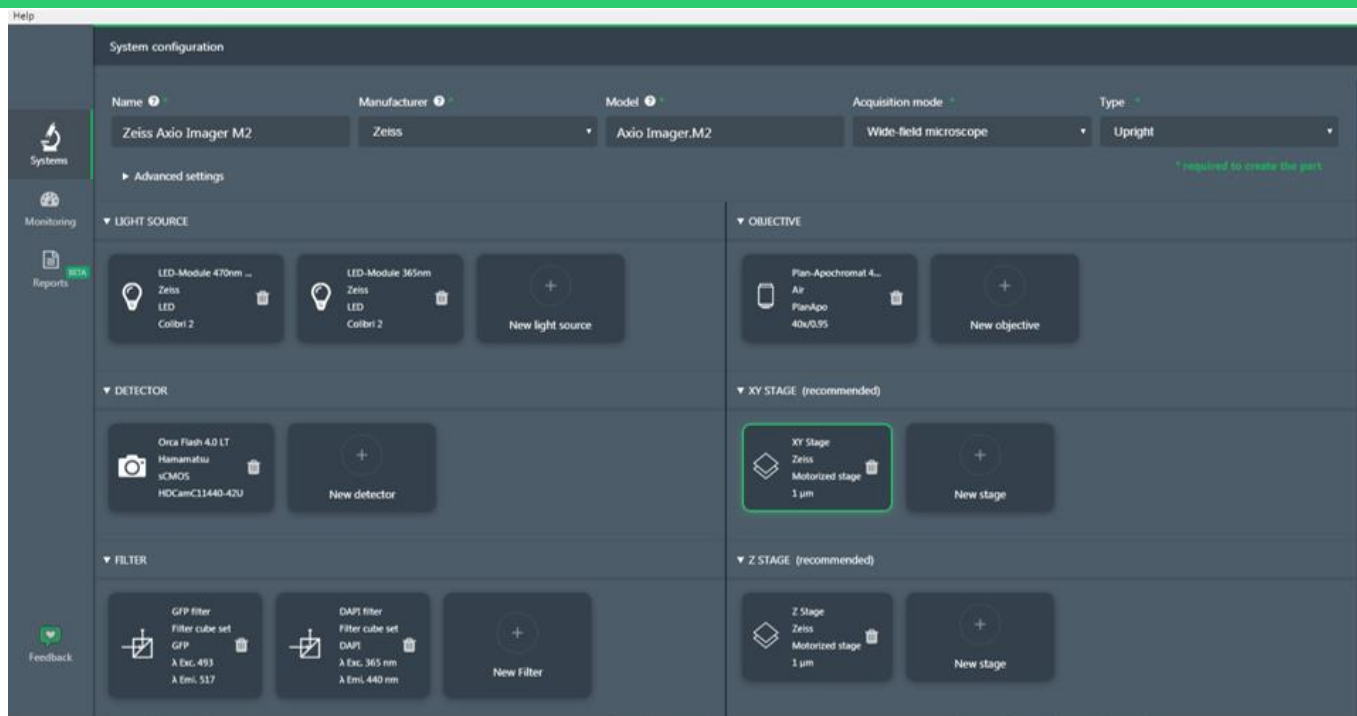


Figure 6: Example of a fully configured system.



III. CREATE AN ACQUISITION PROFILE

1. CREATE A NEW ACQUISITION PROFILE

Once a system is created, click on “New acquisition profile”, or “Add new acquisition profile” if an acquisition profile has already been created (cf. Figure 7).

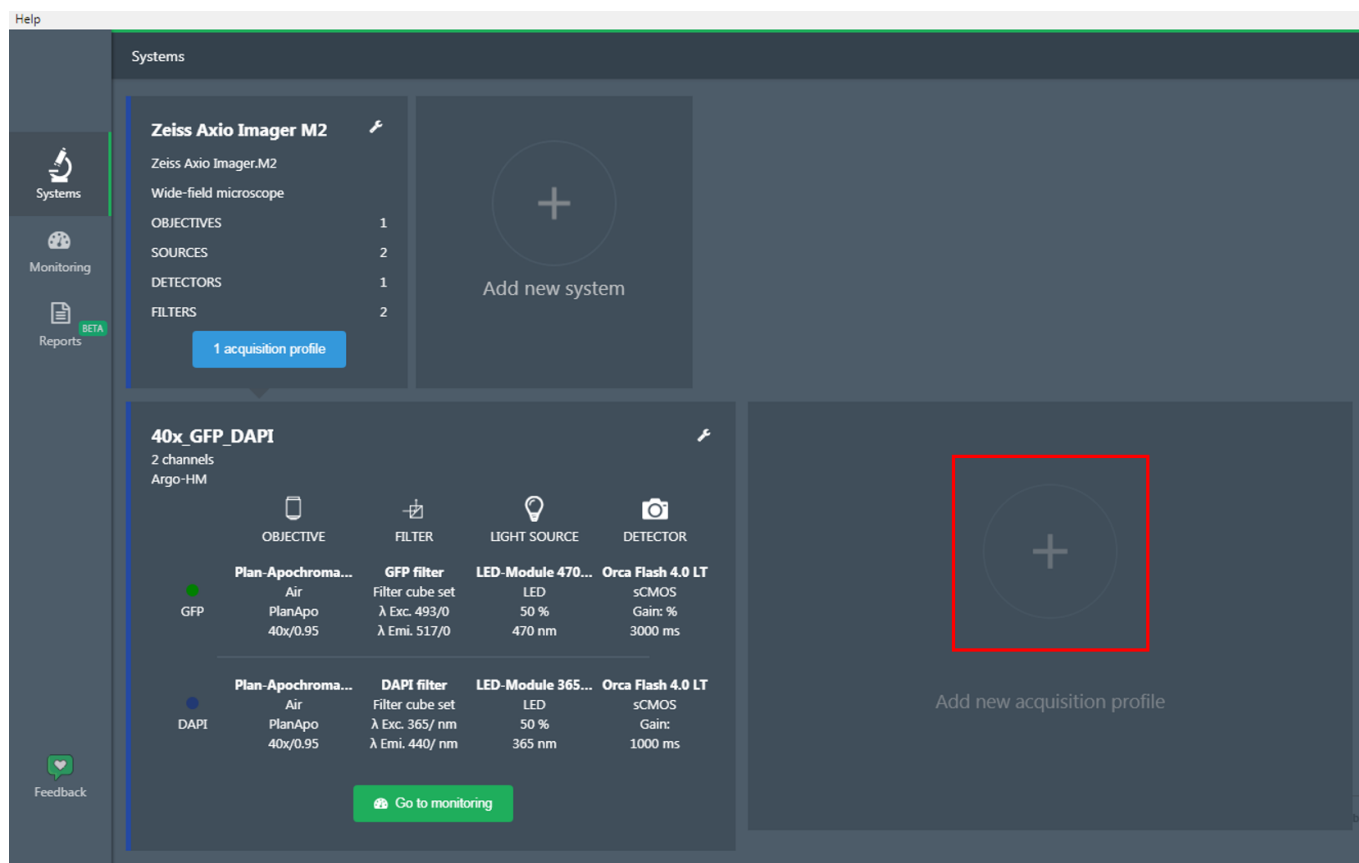


Figure 7: Add or delete a channel.

Enter an acquisition profile name. Select the type of Argolight product used and the objective (cf. Figure 7).

In the channel form, select one filter, one light source and one detector. Several channels (i.e. DAPI, GFP, Cy5, Texas Red) can be created for the same objective.

To add another channel, click on the “Add new channel” button. Up to 10 channels can be created for each acquisition profile.

Each channel can be deleted by selecting the red bin icon on the right of the channel name to be deleted.

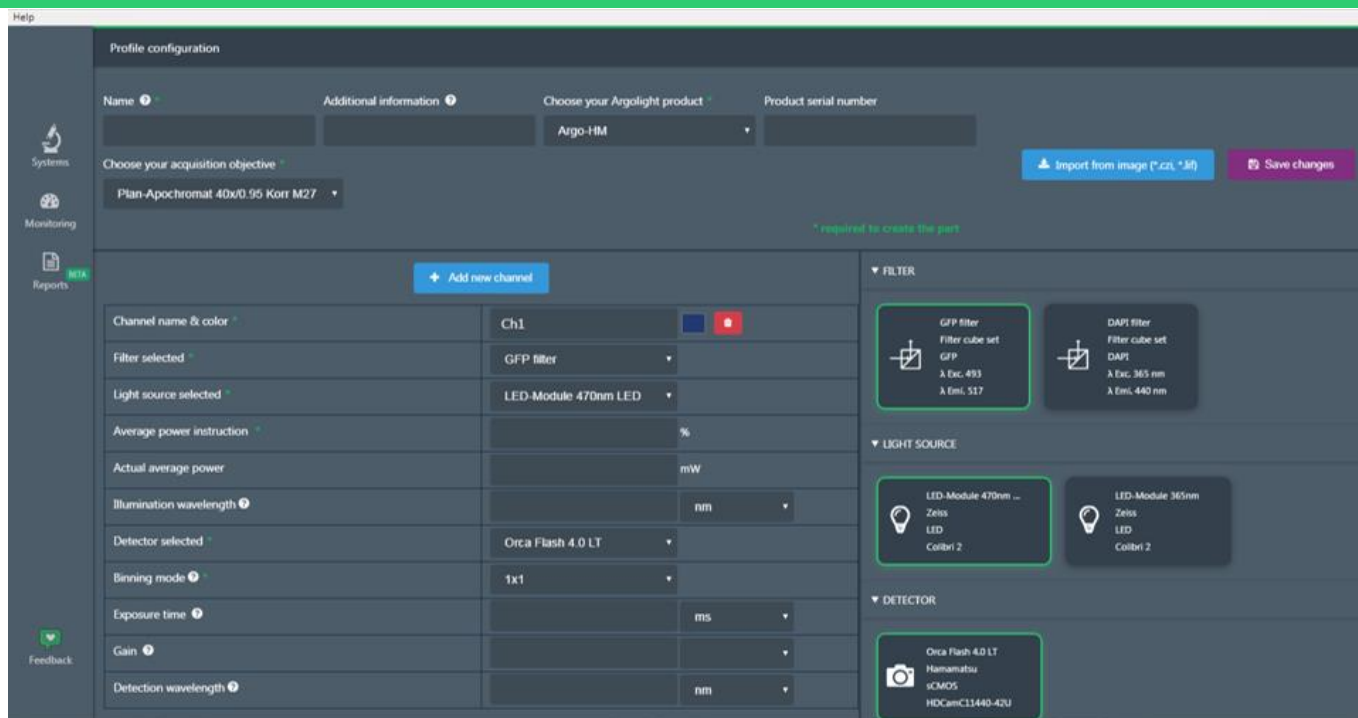


Figure 8: Add or delete a channel.

Click on the green button “Create acquisition profile” to create the profile.

2. DELETE AN ACQUISITION PROFILE

Click on the wrench icon to either delete or edit the acquisition profile (cf. Figure 8).

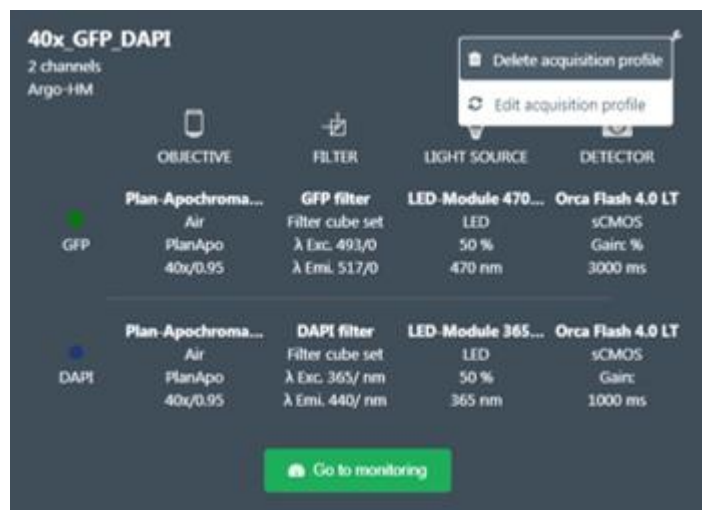


Figure 9: Delete or modify an acquisition profile.

An example of a fully configured acquisition profile is shown in Figure 9.

Profile configuration

Name: 40x_GFP_DAPI | Additional information: | Choose your Argolight product: Argo-HM | Product serial number: |

Choose your acquisition objective: Plan-Apochromat 40x0.95 Korr M27 | Import from image | Save changes

* required to create the part

Channel name & color	GFP	DAPI
Filter selected	GFP filter	DAPI filter
Light source selected	LED-Module 47C	LED-Module 36C
Average power instruction	50 %	50 %
Actual average power	mW	mW
Illumination wavelength	470 nm	365 nm
Detector selected	Orca Flash 4.0 L	Orca Flash 4.0 L
Binning mode	1x1	1x1
Exposure time	3000 ms	1000 ms
Gain	%	
Detection wavelength	nm	nm

FILTER

GFP filter
Filter cube set
GFP
λ Exc. 493
λ Emi. 517

DAPI filter
Filter cube set
DAPI
λ Exc. 365 nm
λ Emi. 440 nm

LIGHT SOURCE

LED-Module 470nm ...
Zeiss
LED
Colibri 2

LED-Module 365nm
Zeiss
LED
Colibri 2

DETECTOR

Orca Flash 4.0 LT
Hamamatsu
iCMOS
HDCamC11440-4ZU

Figure 10: Example of a fully defined acquisition profile with two channels (GFP and DAPI).

Encountered an issue or a question?
Please use the feedback button within the software
Or send a screenshot and your issue description at
customer@argolight.com