

Prior Scientific Help Guides and Installation Instructions

UPDATED 24 APRIL 2015

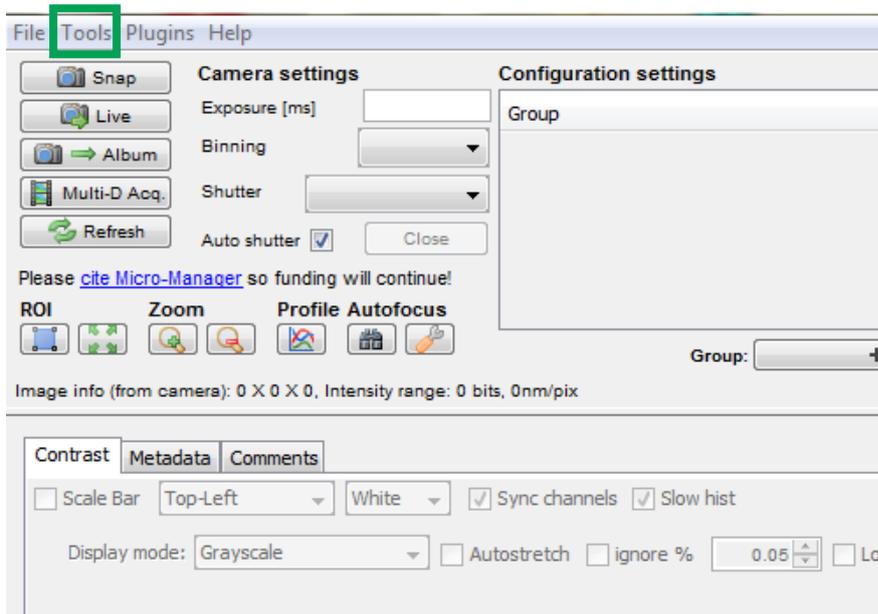
# Using a Prior Controller with $\mu$ Manager

## Setting Up A Prior Controller with $\mu$ Manager

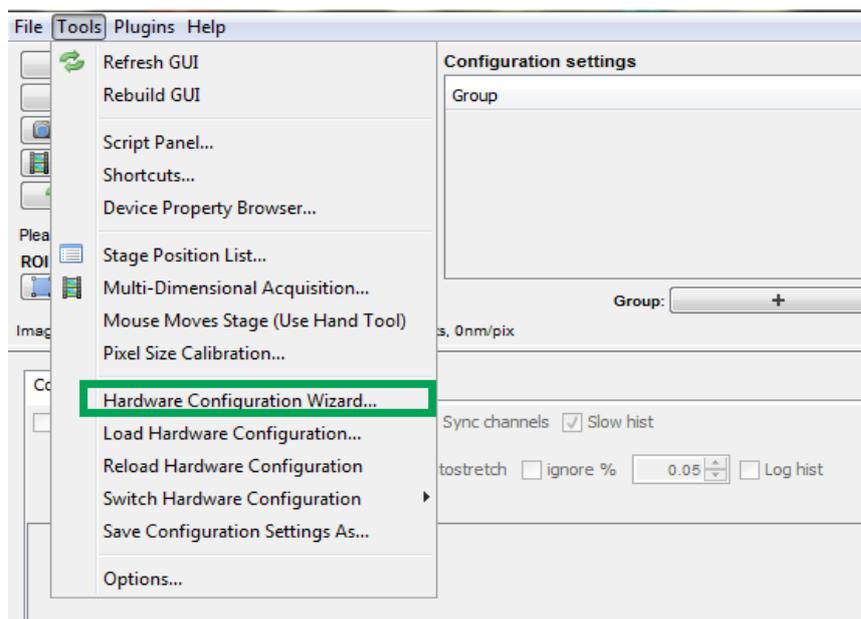
Both the ProScan and the OptiScan series of Prior Controllers may be used with [Micromanager](#).

If you have any problems using your Prior equipment with  $\mu$ Manager please do not hesitate to contact Prior Scientific. However,  $\mu$ Manager is not produced by Prior Scientific and as such the support we can offer you when using this software is limited; if the problem lies with the software itself, or with your computer, we would advise contacting the software distributors directly.

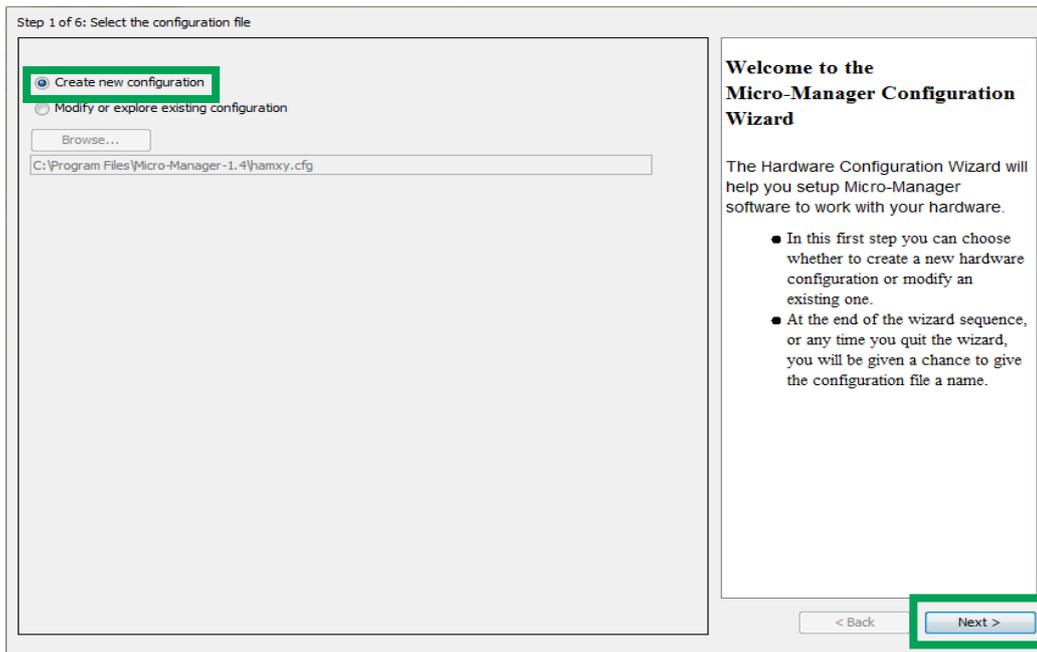
Firstly, ensure that the controller is powered up and switched on, and is connected to both your computer and to any ancillaries. The controller may be connected by either RS232 or via USB. Ensure you make a note of the COM port. Ensure that  $\mu$ Manager is fully installed on your computer. Start the program and go to the 'Tools' menu.



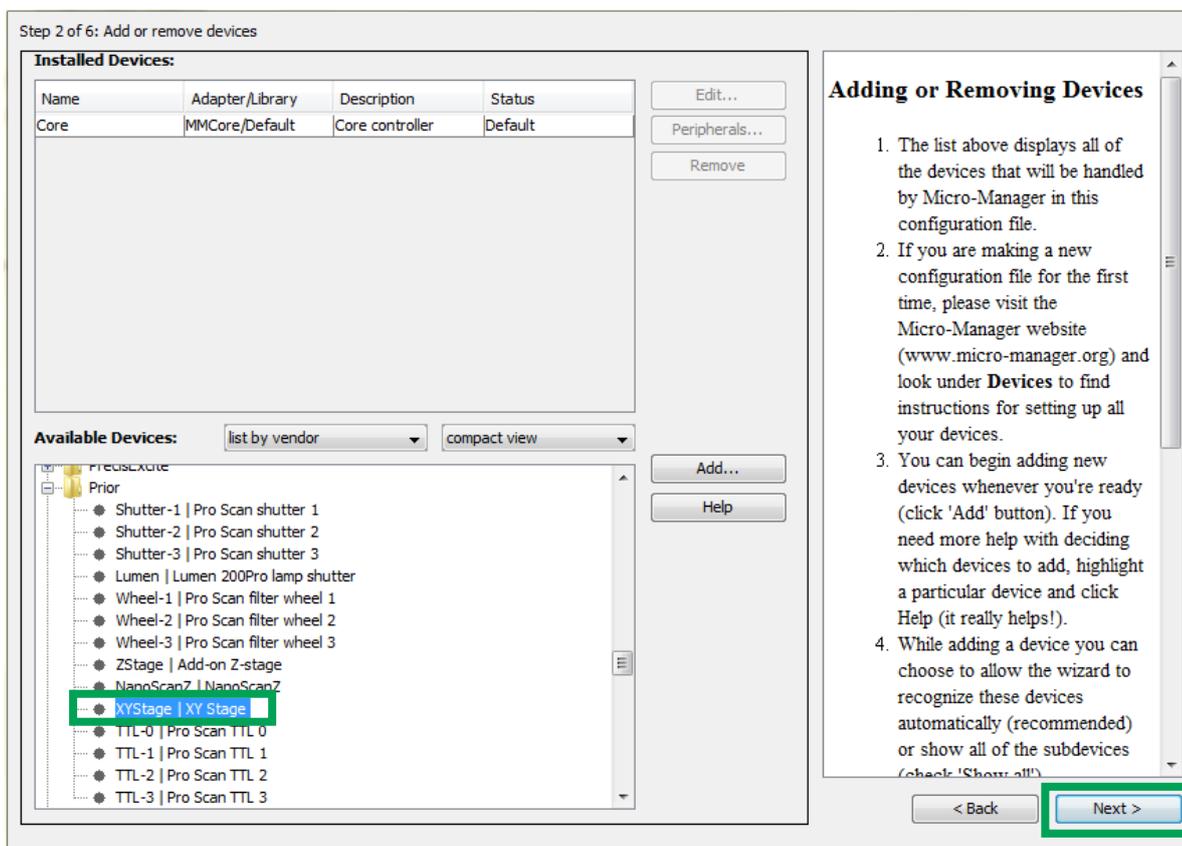
Select the 'Hardware Configuration Wizard' from the drop down menu that appears.



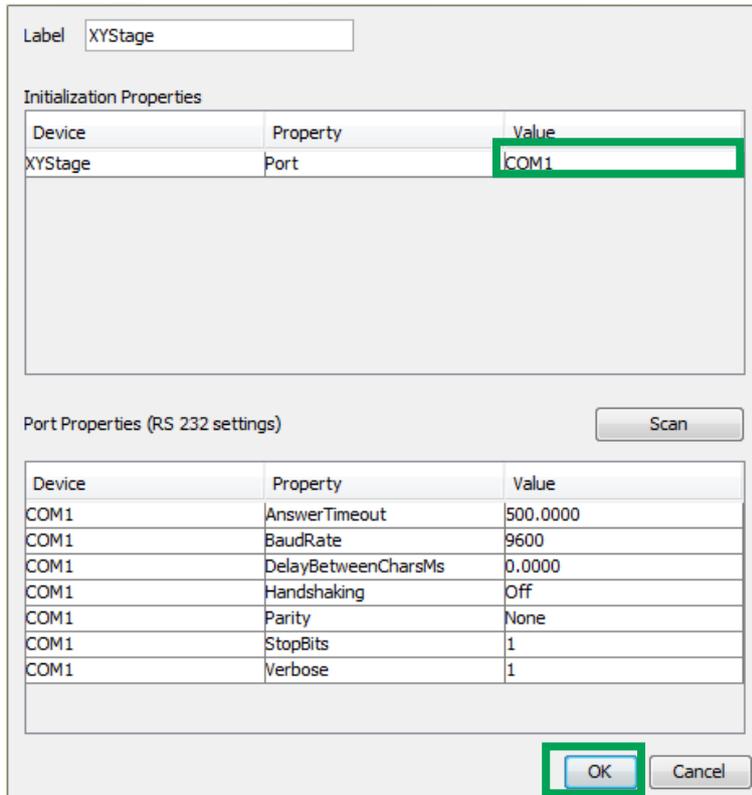
Select 'Create new configuration' and then click 'Next'.



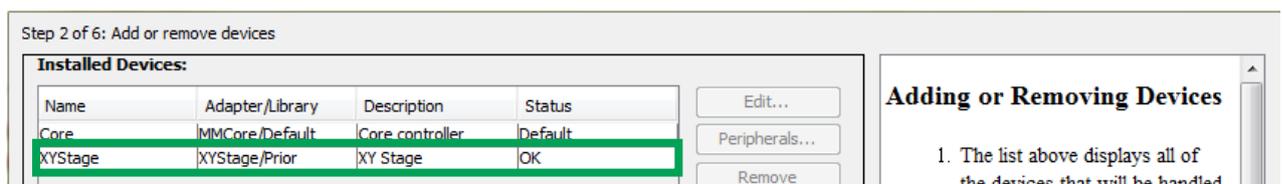
Scroll down to the Prior Folder under 'Available Devices'. Select the 'XYStage/XY Stag' and click 'Add'.



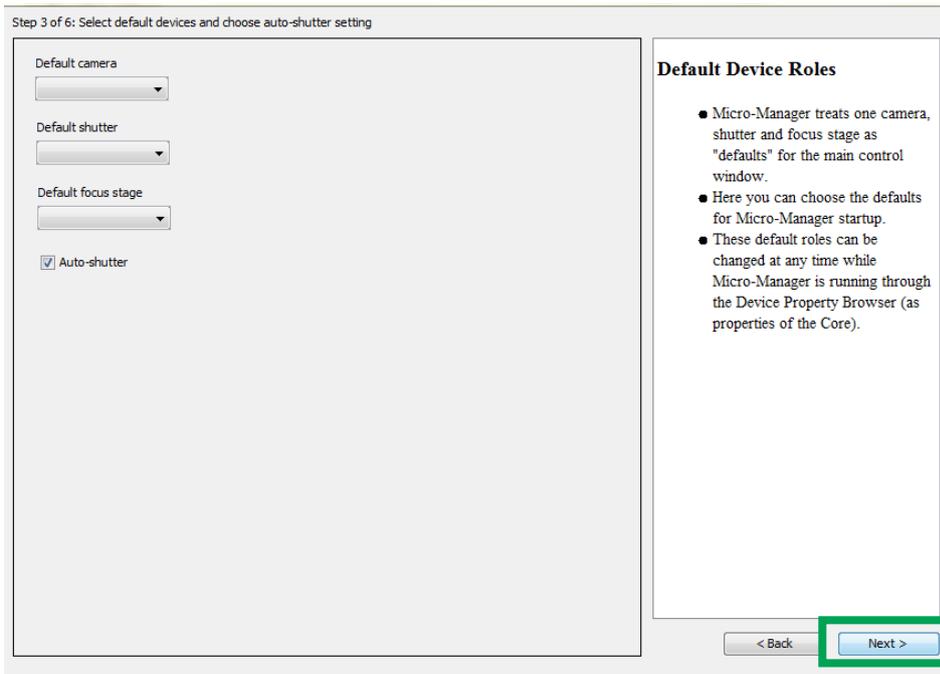
The following screen will appear. Click on the white box under 'Value' in 'Initialisation Properties' and select the correct COM port (this can be found by going into 'Device Manager' and selecting 'Ports' – the correct port should be labelled 'Prior'). Then click 'OK'. A new screen will appear. Ensure the correct values are set for the Baud Rate and other variables, before clicking 'OK'.



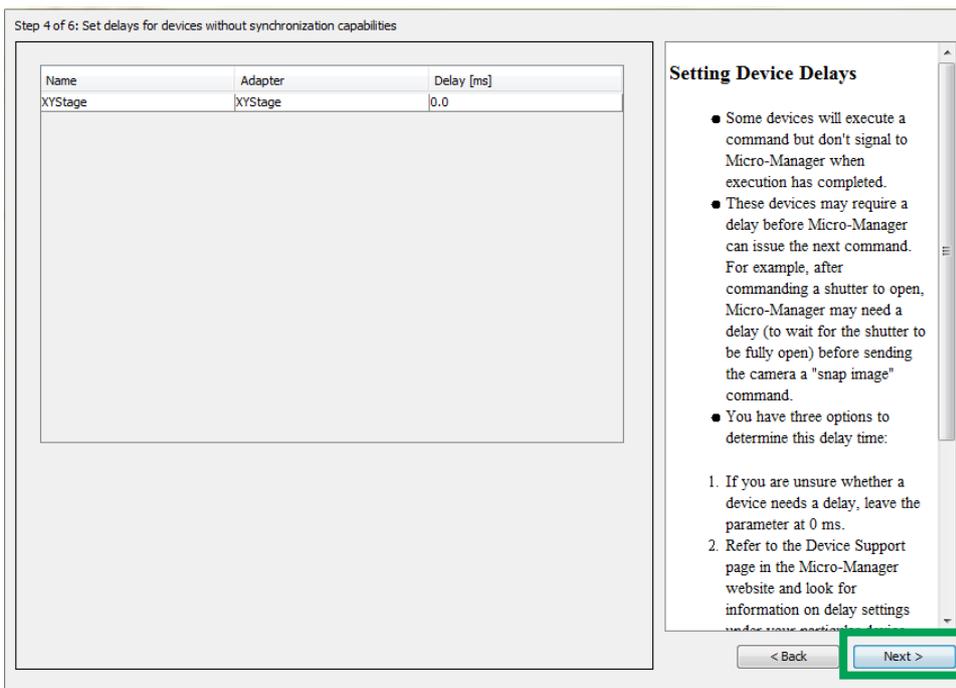
The stage should now be present in the list of 'Installed Devices' and the status should read 'OK' in the 'Hardware Configuration Wizard'.



At this point, repeat this process to add all other Prior equipment in use, as well as any other equipment with external hardware (e.g. microscopes, cameras, etc) before moving on to the next stage. Select the name of the connection on the control unit (e.g. 'Shutter 1') to select the device in question (e.g. a Brightfield LED). Click 'Next' to continue. The following screen will appear. Here you can select the 'Default Devices and Auto Shutter Settings'. Click 'Next' to continue.



On the next screen , click 'Next' to continue.



Again, click 'Next' to continue.

Step 5 of 6: Define position labels for state devices

State devices	State	Label	Read	Reset

**Assigning labels**

- At left are 'State devices' such as filters, objective turrets, etc., which have discrete positions.
- Here assign labels corresponding to each position so that you can easily identify them during use. For example, Position 1, Position 2... could be labeled as Cy3, Cy5...
- Select the device in the left-hand list and edit the corresponding position labels in the right-hand list.

Note:

- The **Read** button will read labels for the selected device directly from the hardware.
- The **Reset** button will reset the labels of the selected device to the values they had when you entered this page.

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Click 'Finish' to save your configuration.

Step 6 of 6: Save configuration and exit

Configuration file:  
C:\Program Files\Micro-Manager-1.4\hamxy.cfg    Browse...

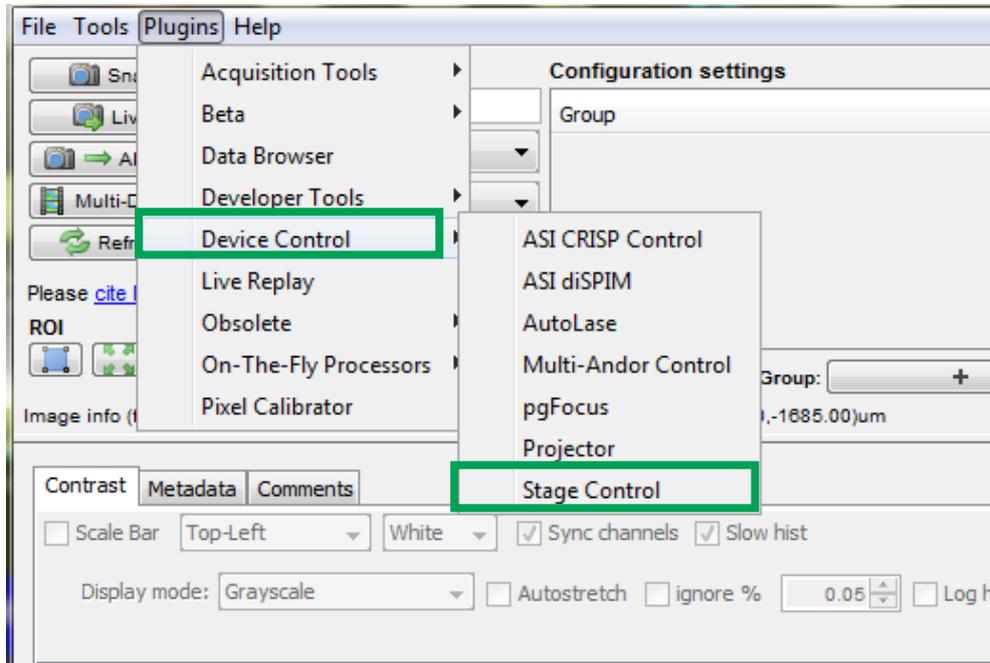
Send configuration to Micro-manager.org  
Providing the configuration data will assist securing further project funding.

**Finished!**  
You have successfully **completed** the Configuration Wizard and the hardware configuration for your system has been built.

< Back    Finish

## Ensuring that the Controller is working within $\mu$ Manager

To test the stage is working correctly go to 'Plugins', 'Device Control' and then 'Stage Control'.



A pop up screen will appear. This can be used to move the stage in the X and Y direction to ensure the controller is working within  $\mu$ Manager. The degree of movement is controllable by entering new values for each value

