

### Data Selection Panel

Name of Image Matrix

Name of Variable Matrix

This tutorial contains navigation buttons that enable you to move throughout the tutorial.  
Please use the navigation buttons and not the page up/page down or arrow keys to navigate through the tutorials.

This is the 'Next' button. It takes you to the next frame or stop point.



This is the 'Previous' button. It takes you to the previous frame or stop point.



This is the 'Go to frame' button. It takes you to a specified frame.



This is the 'Go to URL' button. It takes you to a website link.



Press the 'Next' button below to start this tutorial.



### Data Selection Panel

Name of Image Matrix

Name of Variable Matrix

imagedata\_dan01

exactmass\_dan01

This tutorial will cover how to crop an image.

Cropping can be useful when one wants to look at a subset of an image data set, or wants to crop out unwanted features.

As with any data pre-processing, one should have a logical reason for cropping an image and should always state any image manipulations done before data processing in any papers or presentations.



- Import Data
- Normalize Data
- Crop Image
- Filter Image



From the 'Data Pre Processing' menu choose:

Data Pre Processing -> Crop Image

← →

Plot Selection Panel

### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN01

exactmass\_DAN01

Load Selected Image

Set Crop Square

Crop Image

Close Panel

The Crop Image panel will appear.



Original Image



Cropped Image



### Data Selection Panel

Name of Image

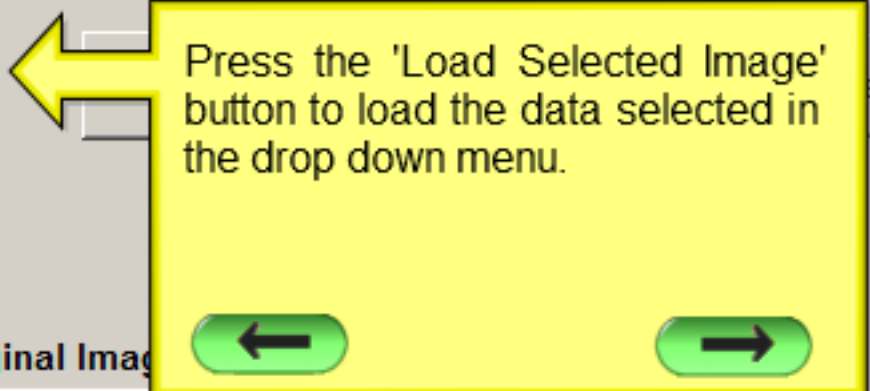
Name of Variable Matrix

imagedata\_DAN01

exactmass\_DAN01

Load Selected Image

Press the 'Load Selected Image' button to load the data selected in the drop down menu.

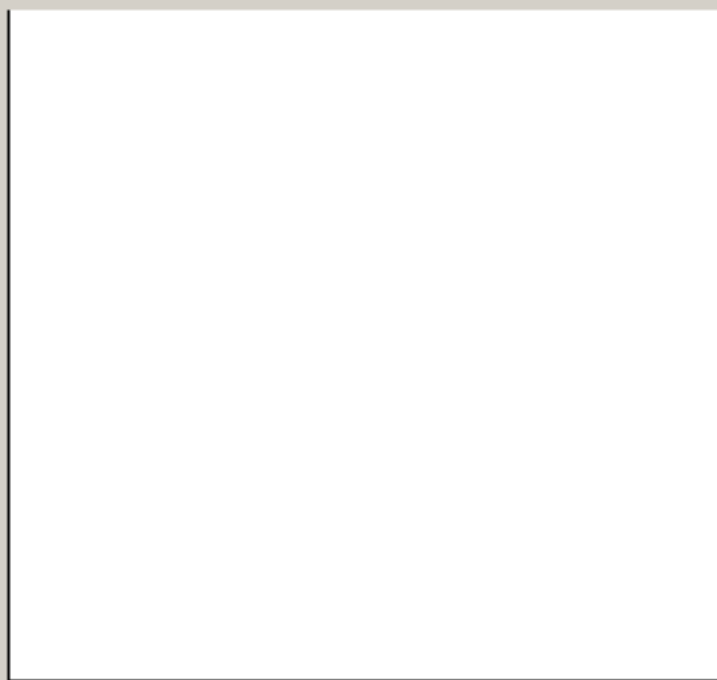


Close Panel

Original Image



Cropped Image



### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN01

exactmass\_DAN01

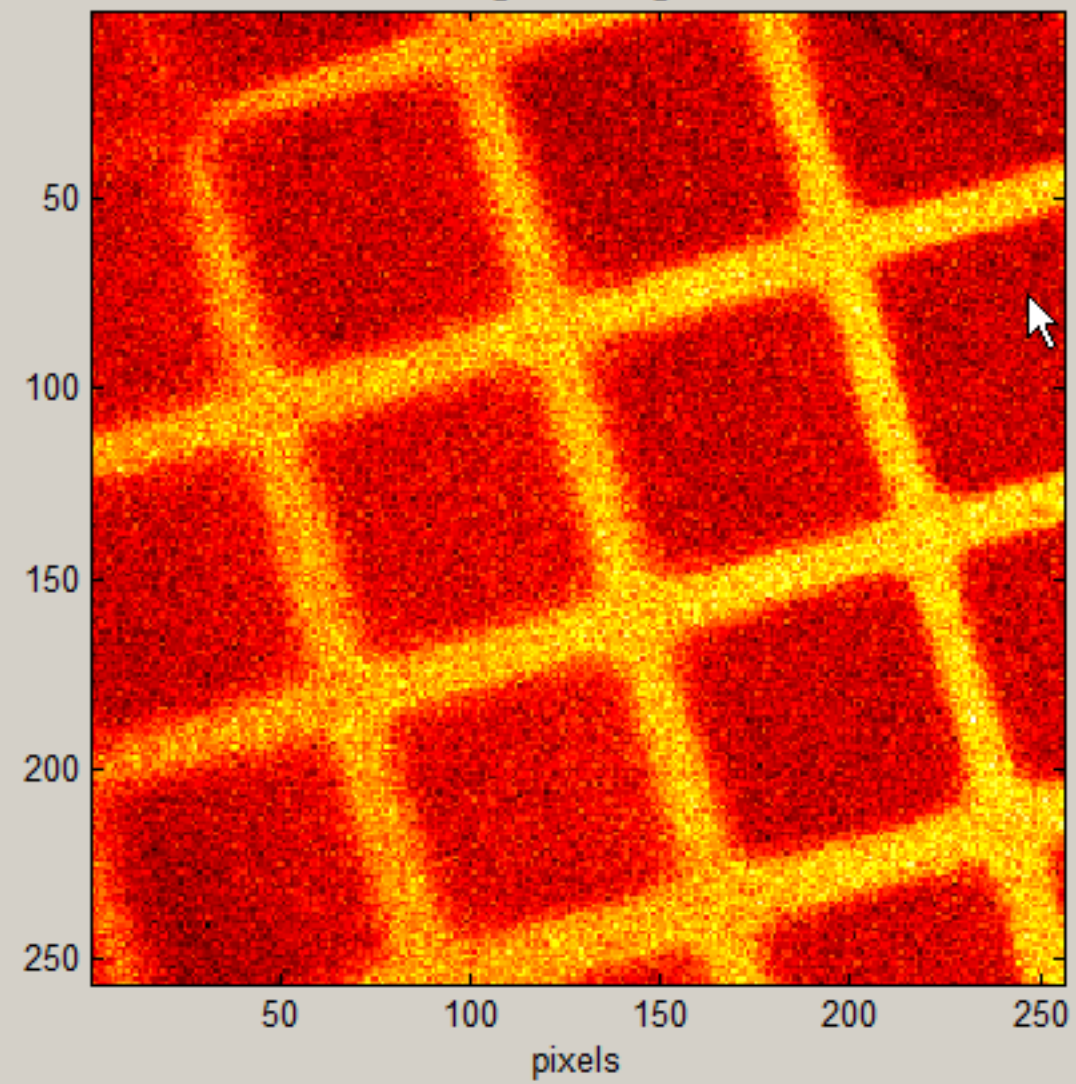
Load Selected Image

Set Crop Square

Crop Image

Close Panel

Original Image



The data is loaded and the totalcounts image is shown in the 'Original Image' plot.

← →

### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN01

exactmass\_DAN01

Load Selected Image

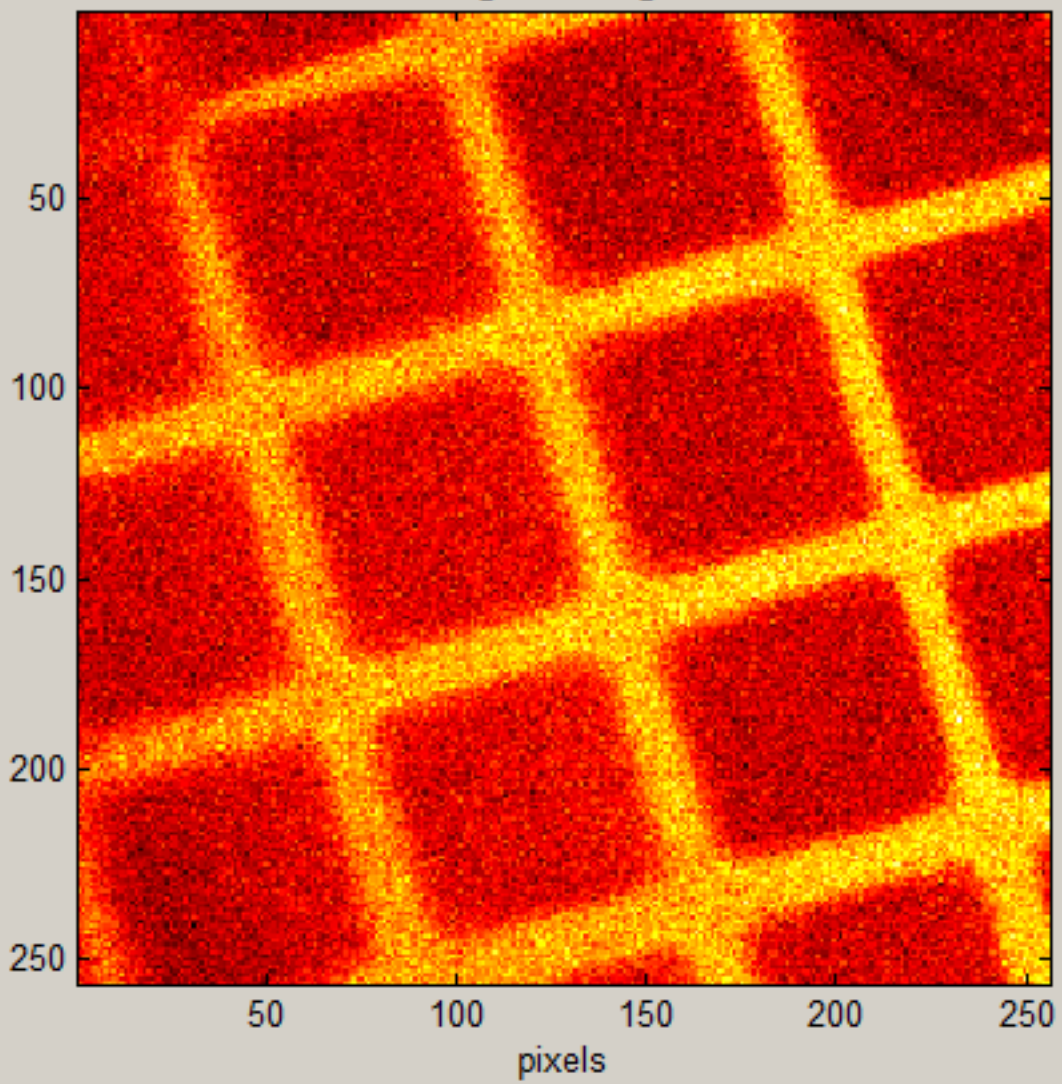
Set Crop Square

Close Panel

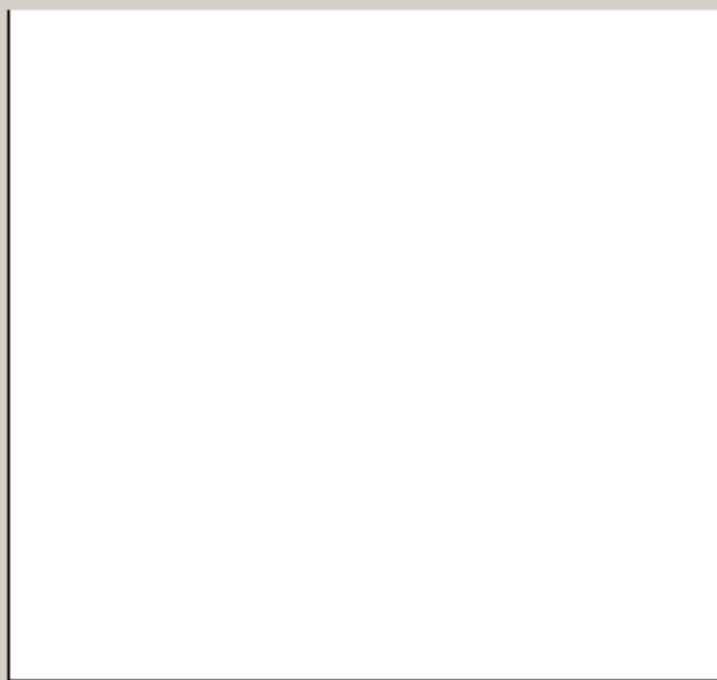
Now press the 'Set Crop Square' button to enable the selection cursor and select the area to be included in the crop.

← →

Original Image



Cropped Image





### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN01

exactmass\_DAN01

Load Selected Image

Set Crop Square

Crop Image

Close Panel

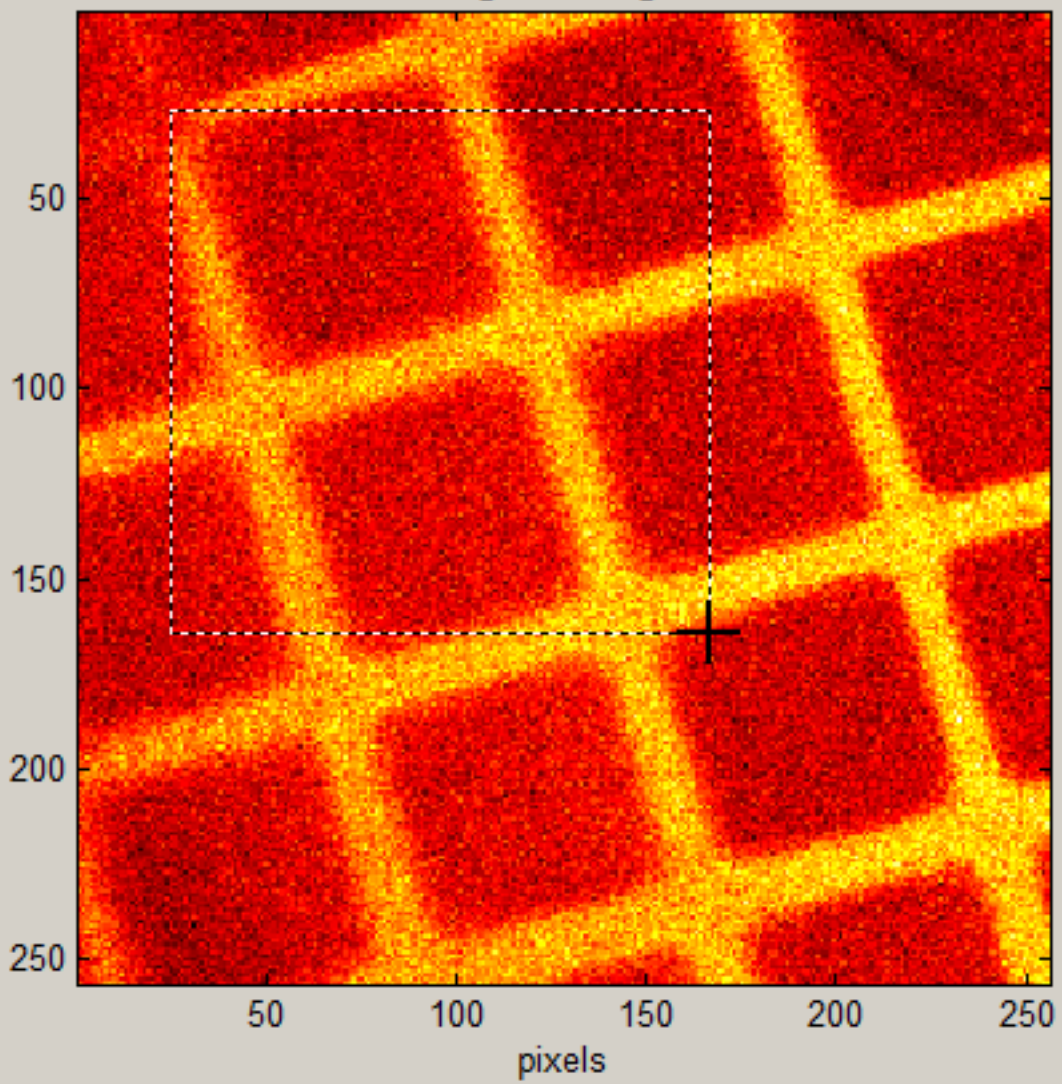
Click and drag with Right mouse button

Follow the instruction shown here. Click and drag a square area you want to crop.

Currently the selection area must be square. If the area you drag over is not square, the program will adjust it to be square.



Original Image





### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN01

exactmass\_DAN01

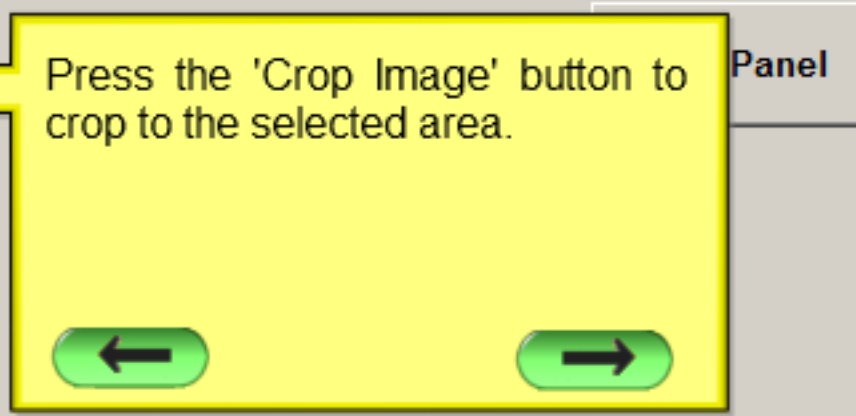
Load Selected Image

Set Crop Square

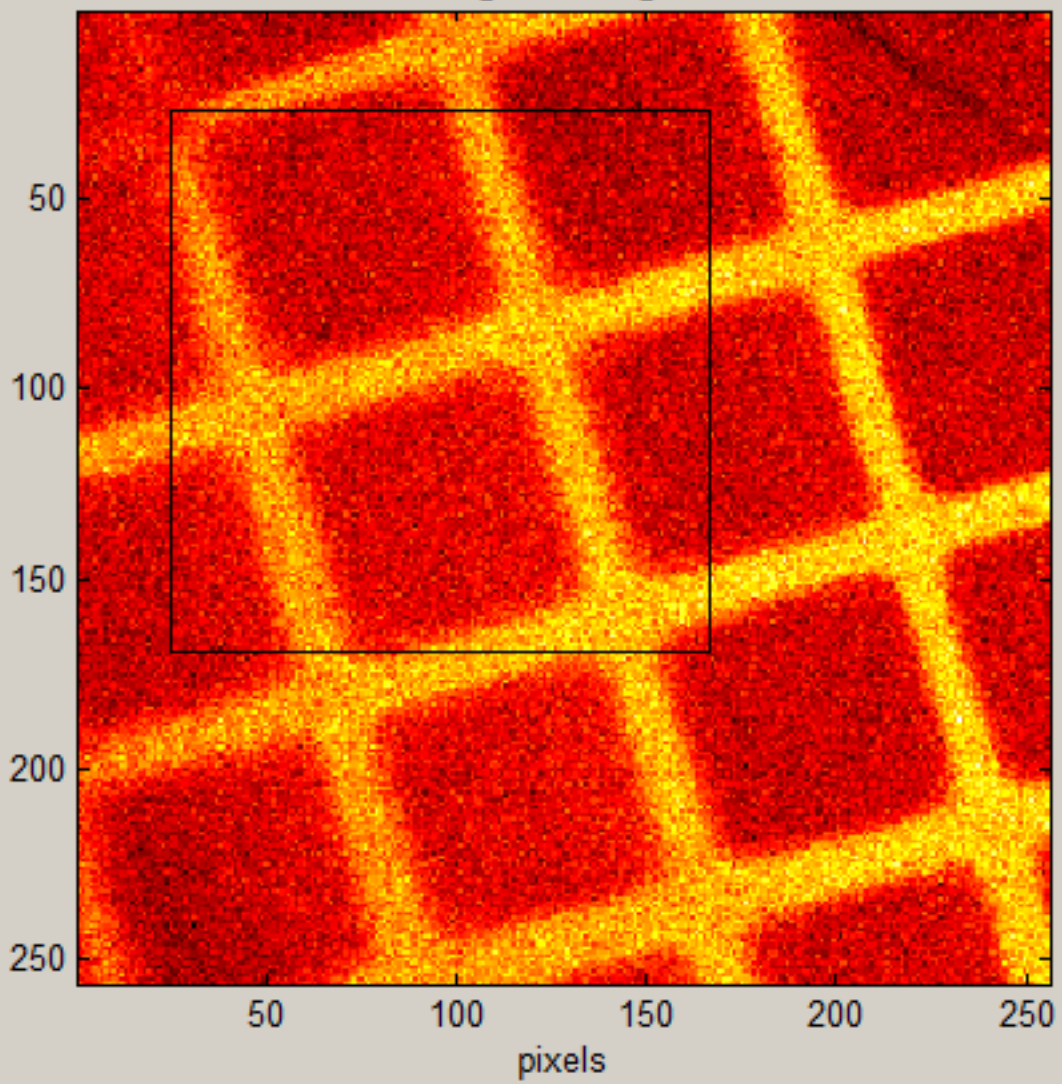
Crop Image

Panel

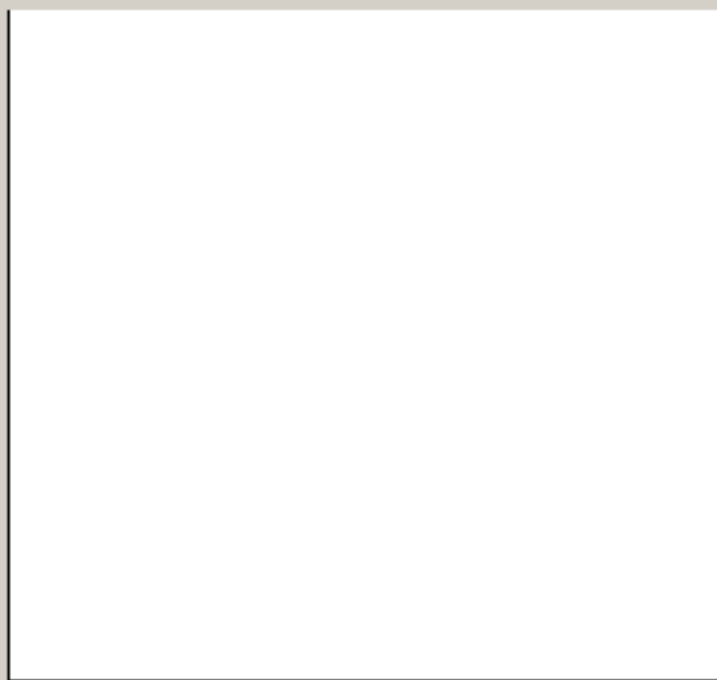
Press the 'Crop Image' button to crop to the selected area.



Original Image



Cropped Image



### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN...

exactmass\_DAN01

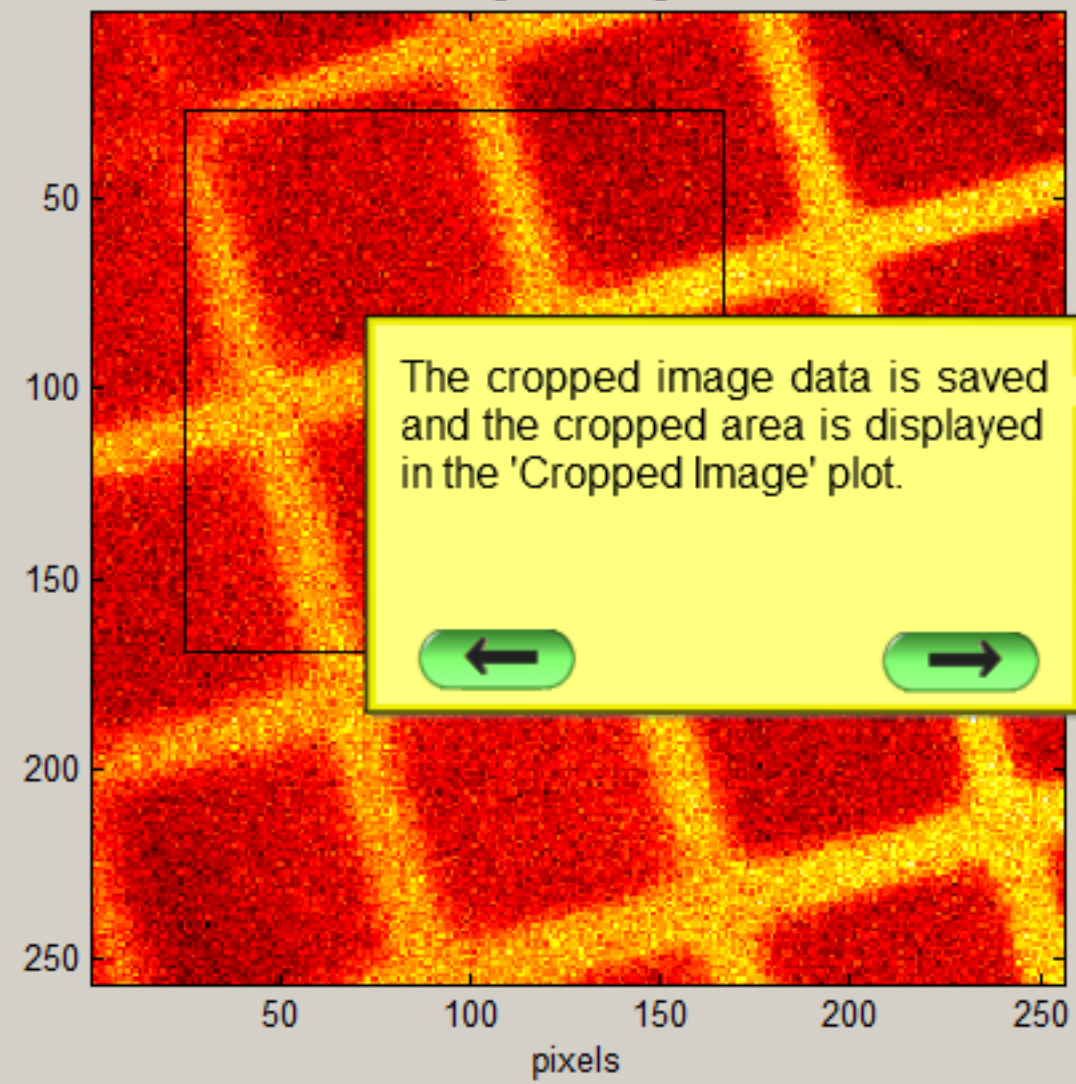
Load Selected Image

Set Crop Square

Crop Image

Close Panel

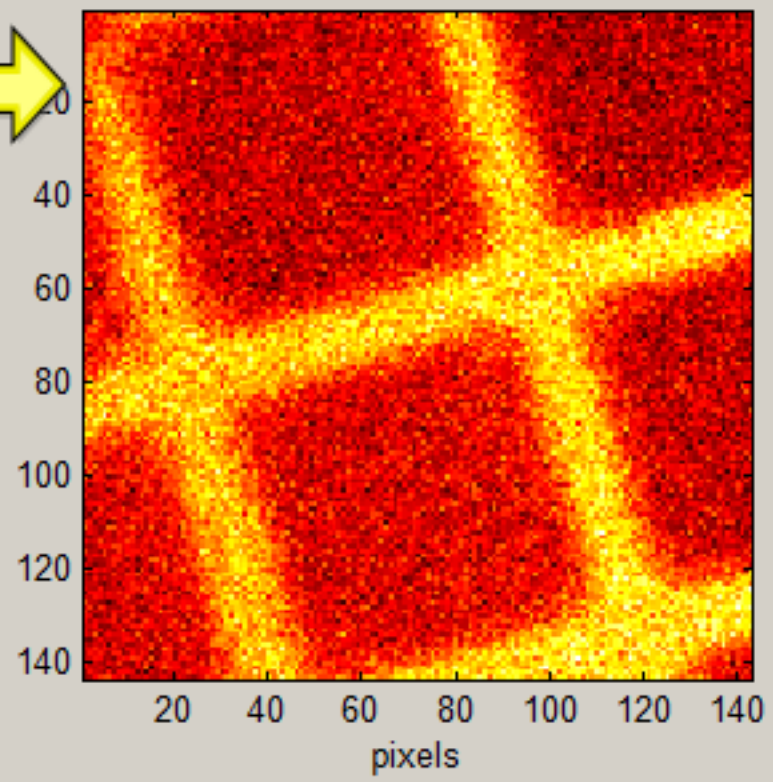
Original Image



The cropped image data is saved and the cropped area is displayed in the 'Cropped Image' plot.



Cropped Image



### Data Selection Panel

Name of Image Matrix

Name of Variable Matrix

imagedata\_DAN...

exactmass\_DAN01

- Select Data
- imagedata\_DAN01
- cropped\_20\_149\_17\_146

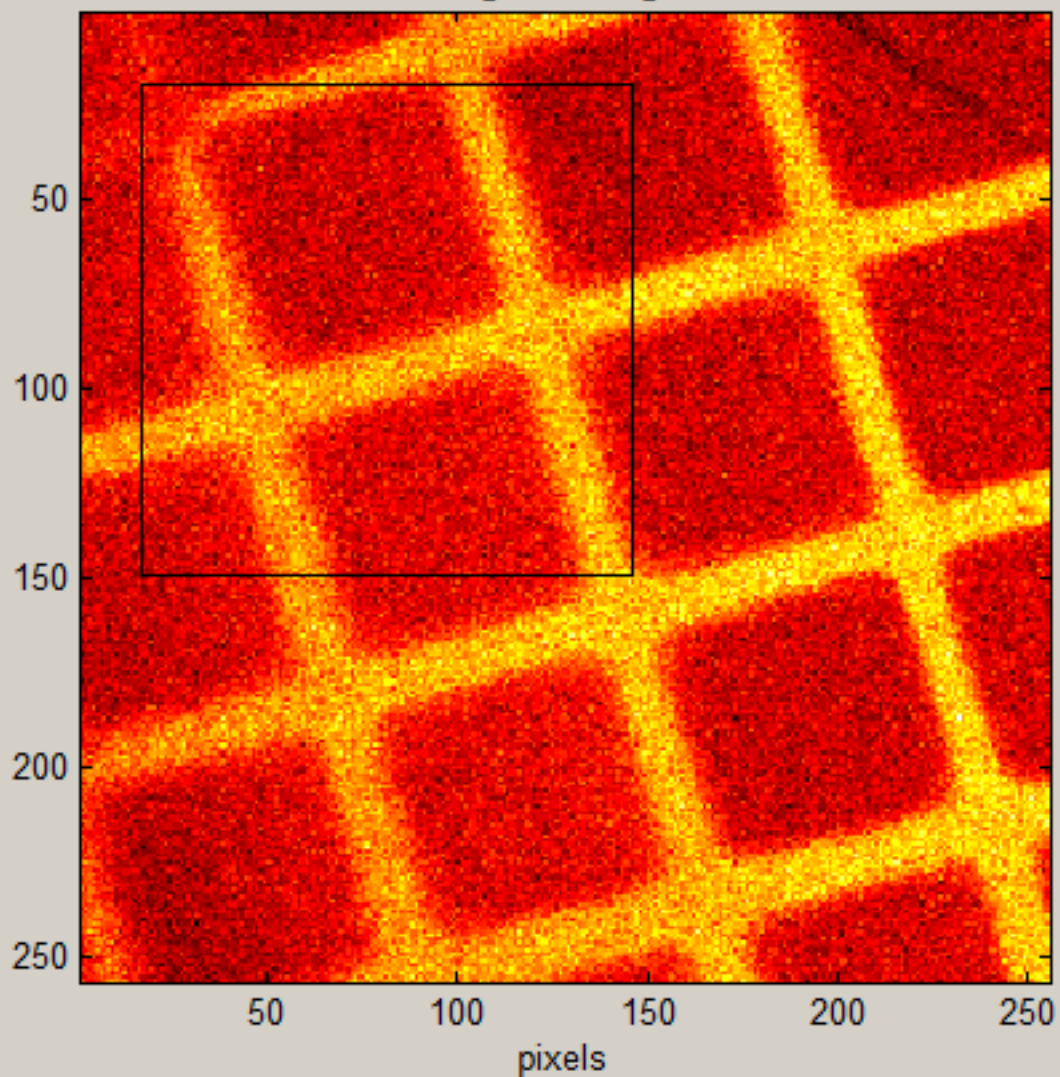
The cropped data is added to the Image Matrix drop down menu. The name includes the location of the corners of the cropped area.

Load Selected Image

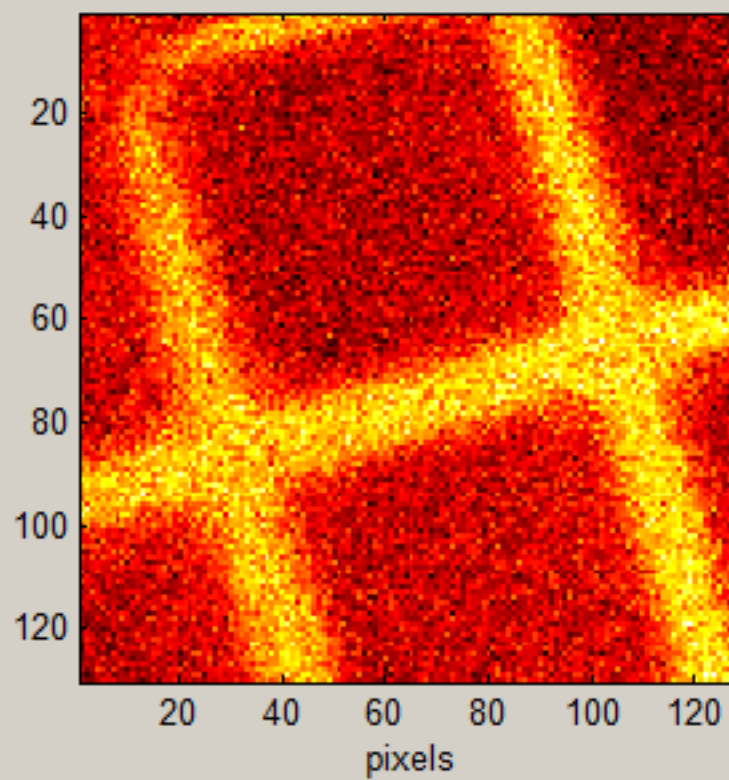
Image

Close Panel

Original Image



Cropped Image





### Data Selection Panel

Name of Image

Name of Variable Matrix

imagedata\_DAN...

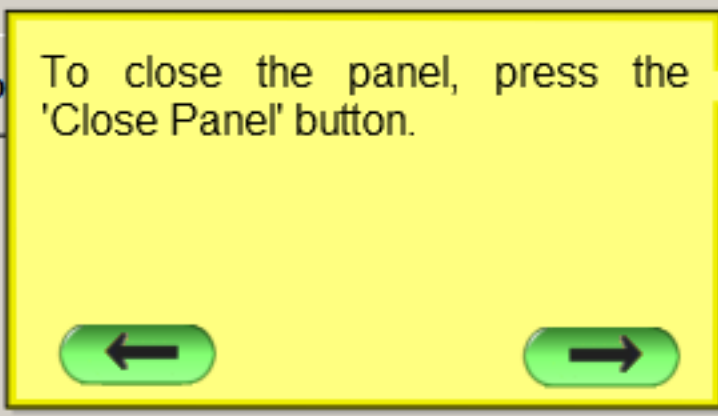
exactmass\_DAN01

Load Selected Image

Set Crop Square

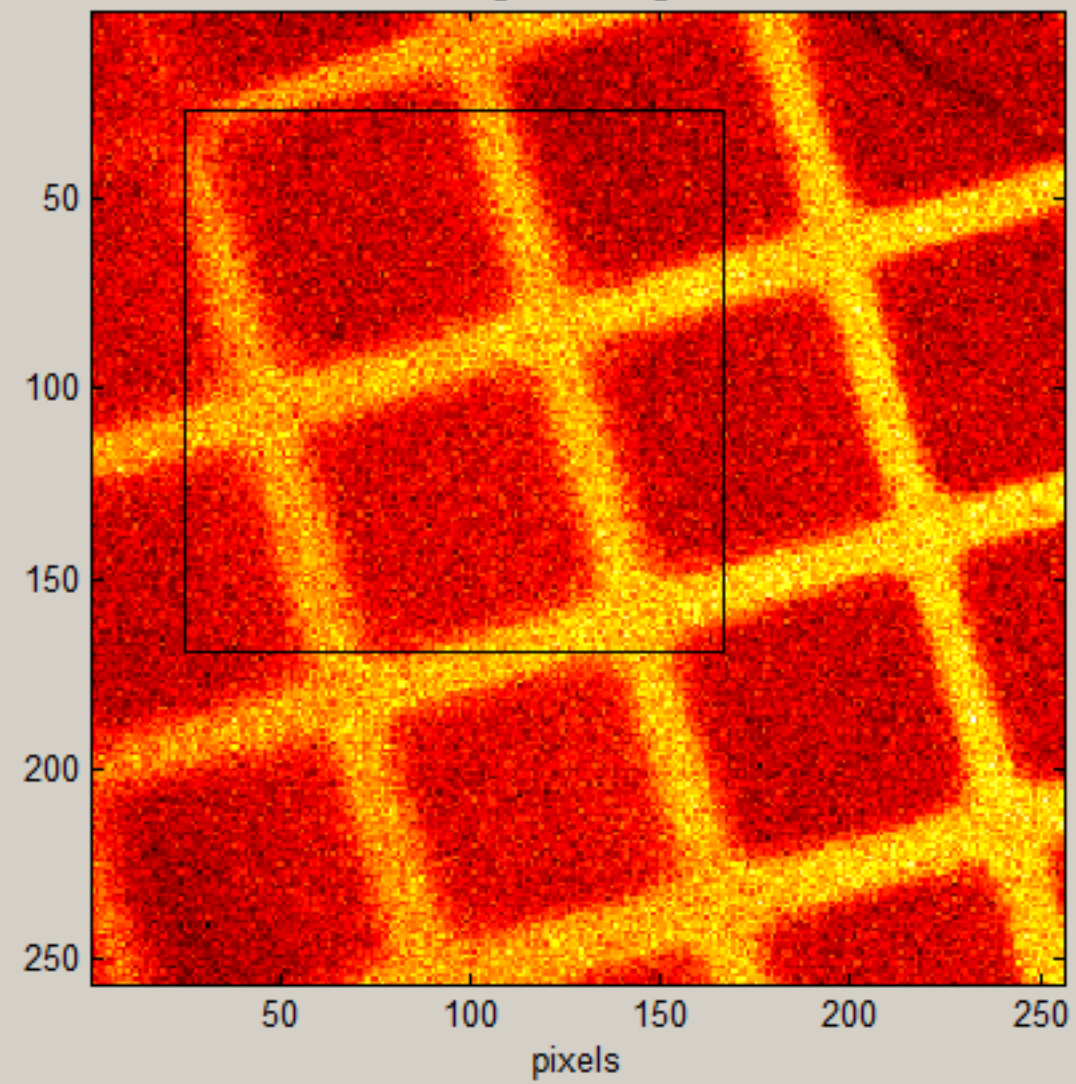
Crop

To close the panel, press the 'Close Panel' button.

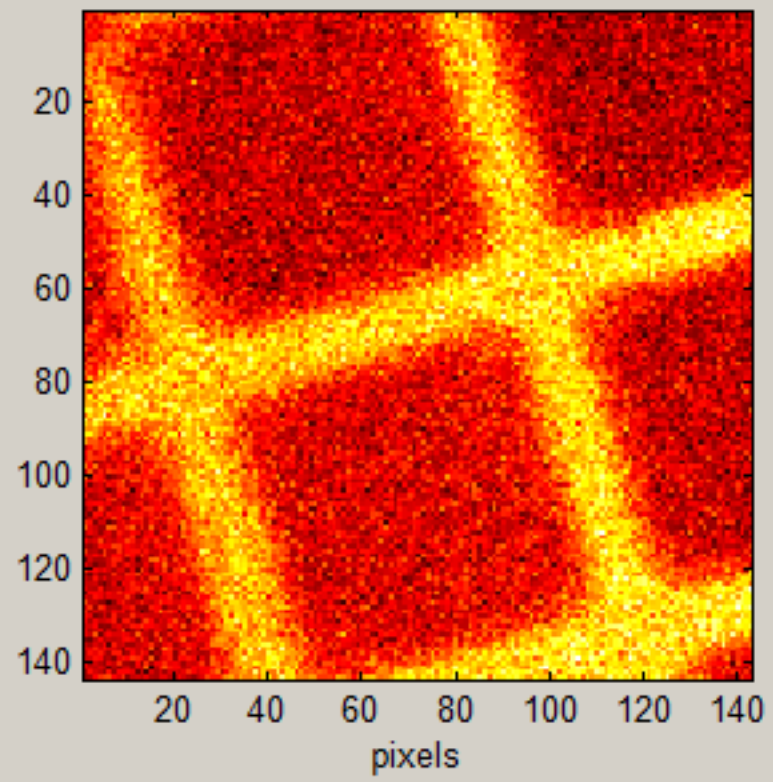


Close Panel

Original Image



Cropped Image



### Data Selection Panel

Name of Image Matrix

imagedata\_dan01

Name of Variable Matrix

exactmass\_dan01

That ends this tutorial. Press the button on the left to go back to the previous step. Press the button on the right to start the tutorial over.

