Intensity Profile

This XTension creates and plots the intensity profile of all This XTension creates and plots the intensity profile of all the created and connected spots. The Matlab window displays the intensity profile as a function of the position or time. The x-axis represents the position /time and the y-axis represents the intensity range.

The black vertical line indicates the current position/time point. The green lines indicate the intermediate positions. To change the position/time use the slider.

The channel color are displayed in the plot. The intensities of the channels are shown using different colors respective to the channels. Several options allow the user to have control over the parameters of the calculation and how the results are displayed.

The length/time selection is located below the plot.

In the animation line you can find the following options:

Play/Stop button

Time interval field

Animate spots and time in Imaris

Click on the **Play** button to play the time series. To stop the continuous display through all the time points click on the Stop Button.

In the **Time intervals** field the current value is displayed. By entering a new value, you can adjust the time interval duration.

Selecting or de-selecting the box next to the **Animate spots and time in Imaris** controls the animation.

**Refresh**

Clicking on the Refresh button imports any changes that were made to the data in Imaris and displays the most recent version of the data.

**Export**

For some further statistical analysis you can export the data. Click on the button Export to open the Export window and then select the file type (Comma Separated Values \*.csv, Excel file \*.xls, or Text file \*.txt).

**Show 3D**

3D plots are used to represent data on three axes and to show the relationship between the three variables: time, position and intensities.

Please note: The best way to analyze the Intensity Profile information is by using a limited amount of data.