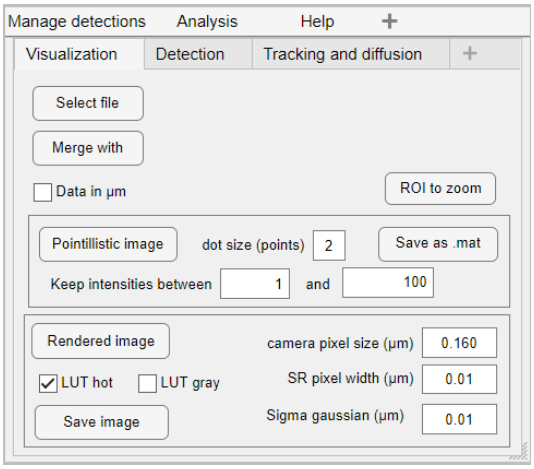
Visualization

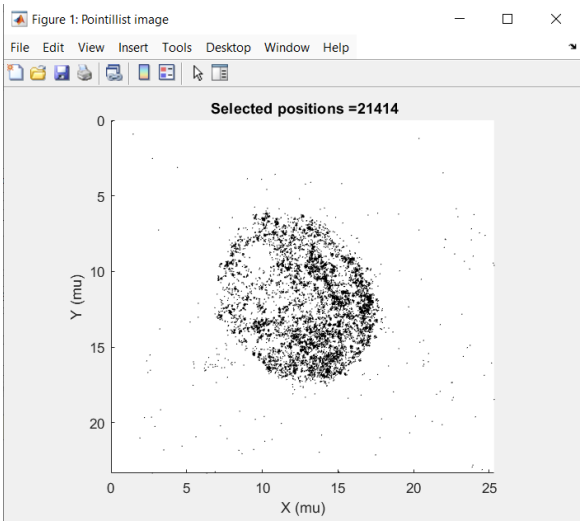


This window creates pointillistic and rendered images from SMLM data (.mat files), loaded with **Select file**. The algorithm to create the rendered image is based on PALMvis.m scripts (Pasteur Institute, Paris).

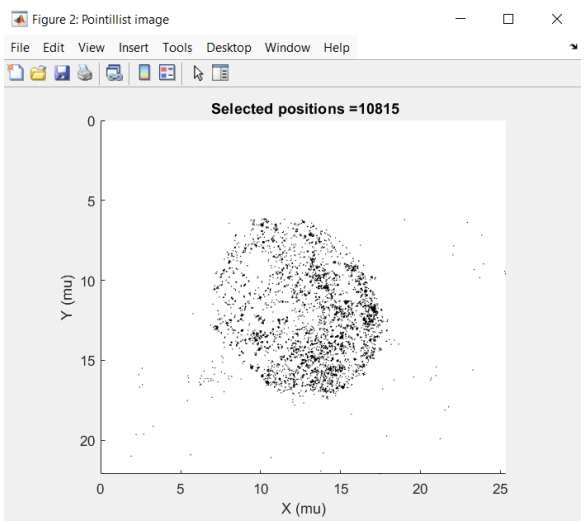
The **Pointillistic** image shows all the points corresponding to signals having the indicated intensities (**Keep intensities between (%)**). The plotted dots have the size **dot size (points)**, which depends on the resolution of your screen. You can save the list of coordinates with the range of intensities that you chose using **Save as .mat**.

Example:

Keep intensities from 0 to 100%:

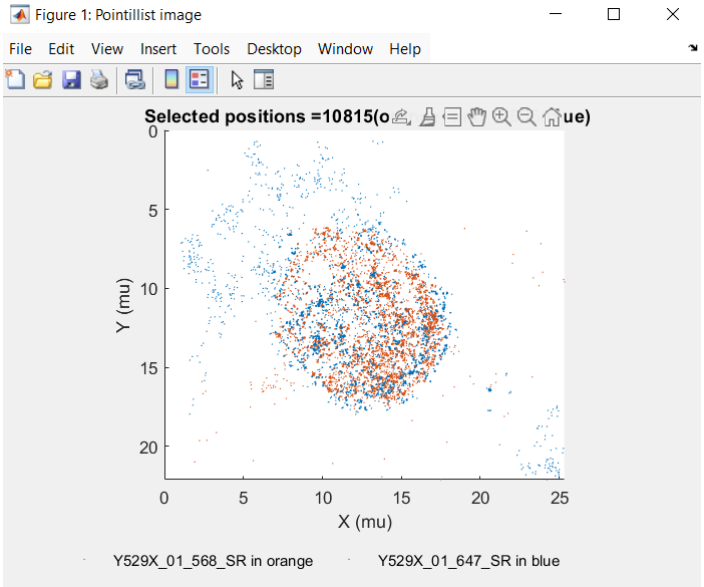


Keep intensities from 50 to 100%:



You can overlay two sets of SMLM data or one SMLM data and a fluorescent image, using **Merge with** to choose the second file. **ROI to zoom** allows to zoom over a ROI selected by hand.

Please note that in case of merging files, the same range of intensities is used for both images. Also, you can only save the first one.



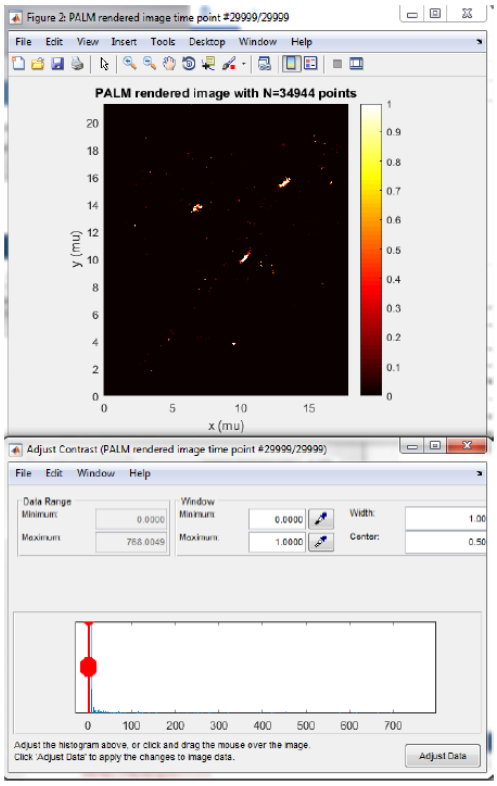
The **Rendered** image is the interpretation of the coordinates considering a Gaussian distribution of intensity (with variance equal to **Sigma Gaussian**) and an SMLM pixel size (**SR pixel**). Chose these two parameters in agreement with your localization precision.

You can choose between a **LUT hot** and a **LUT gray**, unless you merge two different images (in this case, one will be in shades of red and the other in shades of blue).

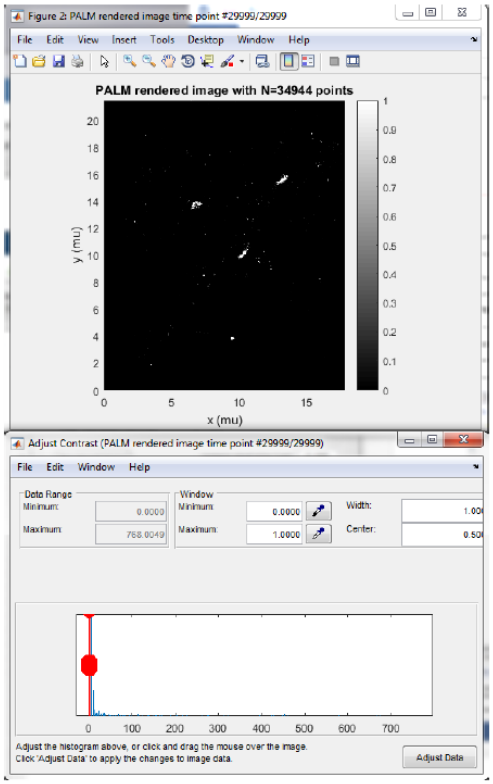
It is possible to improve the contrast of the rendered image using the interactive plot that opens together with the image, with **Adjustable Rend**.

Save image creates a .tif file from the image on the screen.

Example: LUT “hot”



Example: LUT “gray”



Merging works also for rendered images, but please note that in this case you cannot adjust intensity.

Example of two merged detection data (a zoom shown on the right panel)