

IN Carta Image Analysis Software

QUICK REFERENCE GUIDE

Selecting & Viewing Image Data

Selecting Image Data

- 1. Click the Worklist 💭 icon.
- 2. Locate data using *Search* or sort using column headers. To populate the *Worklist* or change directory, click *Browse* and navigate to a parent folder that contains image data and click *OK*.
- 3. Select image data.

Navigating and Viewing Image Data

The software includes an image viewer for data exploration. Here is an overview of common visualization tools:

Setting Up ViewPorts

- Click the *ViewPort Layout* (1) icon to change number of images displayed and their orientation. Up to nine channels can be viewed simultaneously.
- To change the image displayed in a ViewPort, click the *ViewPort* to activate it and use drop-downs (2) to change field-of-view (FOV) and/or channels.

Navigating the Dataset

- Select a well in *Plate Map* (3) to display images from that well. Use the mouse wheel to zoom in on the plate map to view and select other FOVs.
- For three-dimensional data, use Z Slice slider (4) navigate through z.
- For the time lapse data use *Time Point* slider (5) to navigate to a time point of interest.

Adjusting Image Display

- Click ViewPort to activate the channels to be adjusted.
 Use the Image Display Settings (6) panel to adjust:
 - Pseudo coloring using the *Pseudo Color* (7) drop-down.
 - Image contrast using either the Contrast (8) slider or the Image Intensity Histogram (9).
 - Click the Auto Contrast (10) icon to reset contrast to the default min/max values.
 - To manually adjust brightness, click an image, and drag the mouse up and down. To manually adjust contrast, click and drag right and left.



Creating a Blended Image

- 1. Click an empty ViewPort and click the Image Blending (11) icon.
- 2. Check the box next to each channel (12) to display.
- 3. Use the Pseudo Color drop-down (13) to select a color for each channel.
- 4. To modify contrast of a blended image, click the name of the wavelength of interest (14). The Auto Contrast icon shows which wavelength is selected. Adjust contrast in the Image Display Settings (6) panel.



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