MOLECULAR DEVICES

IN Carta Image Analysis Software

QUICK REFERENCE GUIDE

Selecting & Viewing Image Data

Selecting Image Data

1. Click the Worklist [icon] 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:
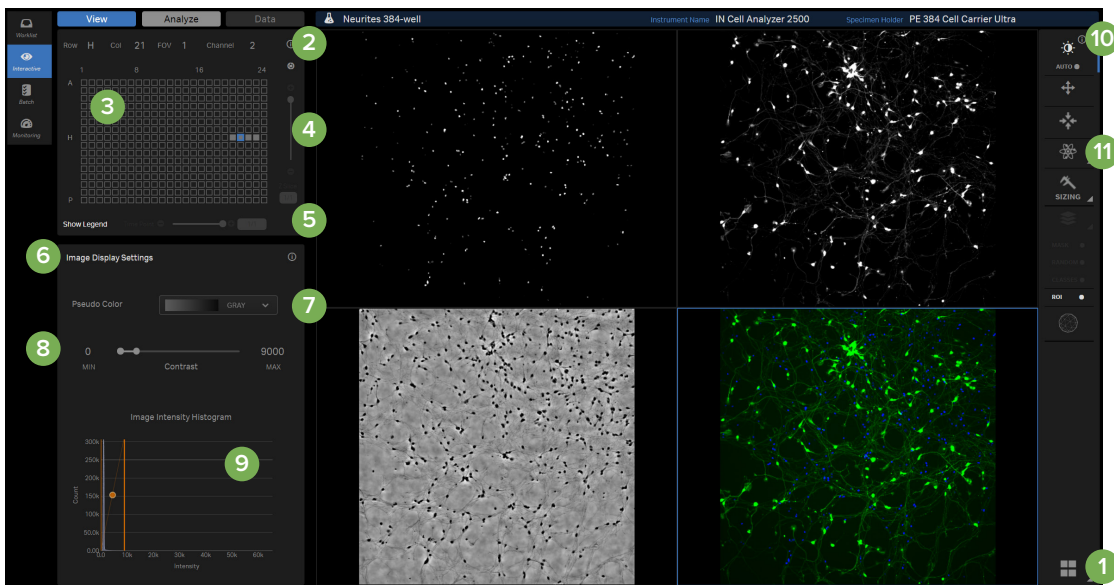
Setting Up ViewPorts

• 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.

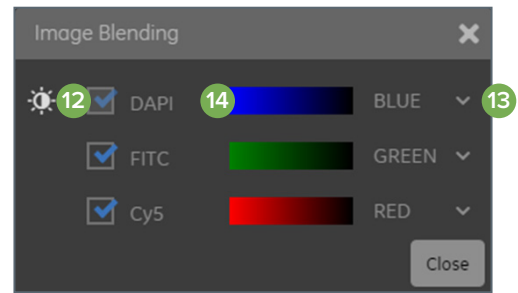• For the time lapse data use *Time Point* slider (5) to navigate to a time point of interest.

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.