

IN Carta Image Analysis Software

View, classify and export results

Navigate the data table

- Use the *Target* (1) drop-down to select what target data to display.
- Use the View (2) drop-down to select the aggregation method:
 - **Single Target**: measures for each segmented object in the selected field-of-view (FOV).
 - Summary by FOV: average values for each FOV.
 - Summary by Well: average values for each well.
- The Results (3) drop-down displays prior results for the current data set. Results are identified by protocol, data set name, and date/time. Select prior results from the drop-down to reload them.

Using the Chart Dashboard Panel

The *Chart Dashboard Panel* is a quick and easy way to display summary or cell by cell data graphically. Here are the most commonly used visualization tools and actions:

Use the *Data Selection* (4) buttons in the *Chart Dashboard* to view *Plate*, *Well* or *FOV* data.

- Select the Chart Type (5) in the Chart Dashboard.
 Note: Not all chart types are available with all data selections. See table at bottomfor more information.
- 3. Select chart parameters:
 - The *Histogram* displays cell count for a single measure.
 - a. Use *Target* (6) and *Measures* (7) drop-downs to change the data displayed.
 - b. Adjust *Data Bins* (8) as needed. Valid entries are 1 to 99.
 - c. Click and drag over an area of the histogram (9) to zoom in on that portion of the graph (10). Click Reset zoom (11) to return to the default display.
 - The Scatter Plot displays cell by cell data for a single FOV.
 - a. Use *Target* (12) and *Measures* (13) drop-downs to specify data to be plotted on the x- and y-axes.
 - b. Click and drag over an area of the scatter plot to zoom in on a particular area of the graph.
 Click the *Reset zoom* button to return to the default display.













- The *Heat Map* is displays average data for a single measure from each well.
 - a. Use *Targets/Classes* and *Measures* drop-downs to change the data displayed.
 - b. Click and drag the arrows at the top and bottom of the *Heat Map Slider* to adjust min/max scaling.

View linked data

IN Carta™ software enables users to interactively connect data points back to a segmented object. This allows you to explore outliers, trends, and perform visual quality control on analyzed data.

- From the Chart Dashboard, set Data Selection to FOV
 (14) and Chart Type to Scatter Plot

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- 2. Use drop-downs to select *Target* and *Measures* (15) for the x- and y-axes.
- 3. In the *Data Table*, set *Target* to *Linked Target* (16) and *View* to *Single Target* (17).
- Verify that the *View Port* is displaying the target identified in the *Scatter Plot* and that *Target Masks* are turned on (18).
- Click on a point in the Scatter Plot (19), cell in the image (20), or row in the Data Table (21) to highlight corresponding data for that particular object.

Classify data

The *Classification* window is composed of the *Classes* navigation panel (23) and the *Histogram* (24). As classes

- are added to the *Histogram*, the *Classes* navigation panel will display relationships between parent and daughter classes.
- 1. From the Chart Dashboard, click Classifier (22).
- 2. In the *Classification* window, select *Target* (25) and *Measures* (26) to use for classification.
- Click the + (27) icon to add a gate to the histogram.
 Move the gate (28) horizontally to reposition. Up to five gates can be added to a single node.
- 4. In the *Classes navigation panel*, click on the *Pencil* icon to edit parent and daughter class names.
- Double-click a node (29) in the Classes navigation
 panel to reload the histogram for that class alone. Use
 the + (27) icon to add daughter classes for this node.
- 6. When classification is complete, click *Save* (30) to classify data.

Export Measurements

- 1. Click on *Download Results* (31) in the upper right hand corner of the data table panel.
- In the *Download Data* window, choose the *Data Type* to export.
 - All Data will export cell by cell measurements AND summary data.
 - Summary will export only summary data (FOV and whole well averages).
- 3. Click *Download*. Results will be saved to the Downloads folder as a single zip file.





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