

8-3-4. Analysis of all peaks within a specified range (add peak analysis layers)

By selecting [Analyze]-[Add peak analysis layers..], you can create various maps showing the following values.

This function targets multiple peaks (action potentials) and simultaneously creates and displays multiple maps corresponding to each peak.

- Activation time
- Repolarization time
- Duration (APDXX)
- Activation to Peak time
- Peak to Repolarization time
- Peak time
- Peak amplitude
- Decay tau

Click [Add peak analysis layers..] to display the “Peak selection” screen.

Click to display waveform at point below

Specify minimum time of analysis target range

Specify maximum time of analysis target range

Specify time to reach first peak

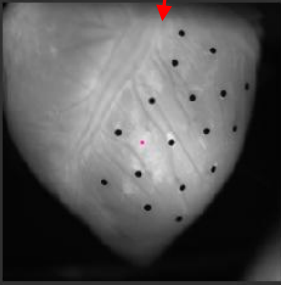
Click to set optimal value

Interval time between peaks

Specify number of peaks

Peak selection

Preview point



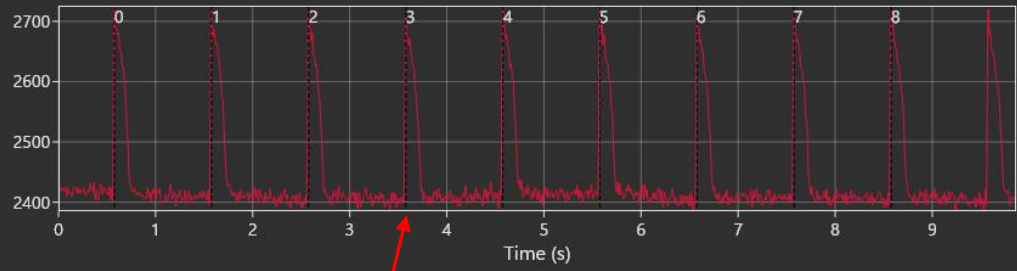
Options

| | |
|---------------|------------|
| From | 0 ms |
| To | 9864.61 ms |
| First peak | 575.89 ms |
| Peak interval | 1000.16 ms |
| Peak count | 9 |

Auto

Click to set optimal value

Selection



Time (s)

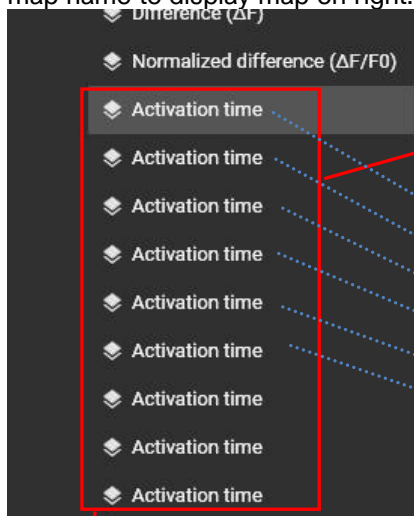
OK
CANCEL

Waveform showing change in light intensity of points on the image

Click to create a map of multiple peaks

Cancel

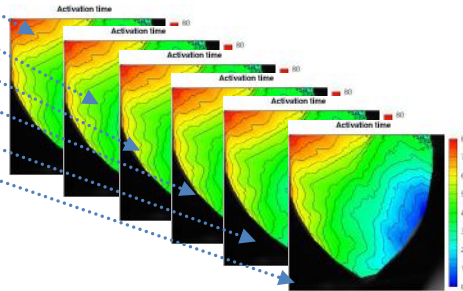
Click “OK” button on “Peak selection” screen to create maps of multiple peaks and display them in the list. Click map name to display map on right.



Right click

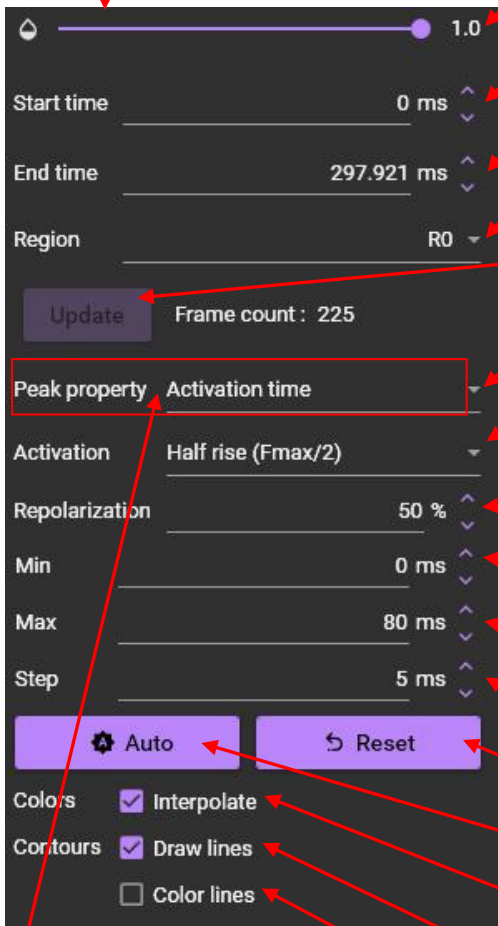
Export data: Save numerical data in CSV file format

Rename: Change title



Multiple maps are created at the same time

Click “Activation time” to display setting screen at bottom left of screen



Specify the transparency of the layer. The lower it is, the more transparent the layer becomes.

Specifies start of time range of map display

Specifies end of time range of map display

Select target area for map display (all pixels, ROI, mask layer)

It becomes active when “Star time”, “End time”, and “Region” are changed. Click to change map display.

Select map type

Select activation time (Half rise (Fmax/2) / Maximum (Fmax) / Derivative max (dF/dt))

Specify XX% repolarization time

Specify minimum time for map display

Specify maximum time for map display

Specify time interval between contour line on map and dividing line on color bar

Reset settings to initial state

Automatic setting of optimum value

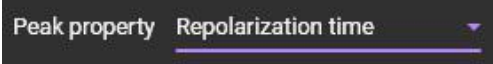
When turned on, the color display becomes gradation

Draw contour lines on map

Draw colored contour lines on a black and white background image to display map


- Activation time
- Repolarization time
- Duration (APDXX)
- Activation to Peak time
- Peak to Repolarization time
- Peak time
- Peak amplitude
- Decay tau

If you change “Peak property” after creating one map, you can create another map.



After changing the settings, click “Update” button to reflect changes on map.



To delete created map, click map name to select it and then click the  button.

