**View5D Cheat-Sheet / Hotkeys  
General**

|  |  |
| --- | --- |
| **Command** | **Description** |
| **i, I** | Reset and center current view (or all views) |
| **s** | Spawn new window with the same data |
| **L (in a view)** | Imports the last saved version of the marker lists. |
| **click (arrow keys)** | Navigate in current view (by single voxels) |
| **shift + arrow key** | Adjusts the relative element (channel) display position |
| **page up/down, or “(“, “)”** | Advance / deviance orthogonal view location |
| **E, e** | Advance / deviance active element (channel) |
| **“,”, “.”** | (komma, period) Advance / eviance time point |
| **q, @** | Toggle plot and pixel diplays modes, @: Lock/Unlock Aspect |
| **A, a, <, >** | Zoom in (**a**) or out (**A**) or zoom orthogonal direction (**<**, **>**) if not locked |
| **S** | Toggle ROI mode (rectangular and Polygon). Shift click to set polygon corners shift-double-click resets ROI |
| **Z** | Zoom to fit the current rectangular ROI |
| **space bar + mouse drag** | Pan in the image |
| **shift + mouse drag** | Create ROI (depending on current ROI mode) |
| **ctrl + mouse drag** | move ROI |
| **D** | Delete currently active element |
| **q (element window)** | Cycle through display modes. (colors, plots, various marker plots) |
| **n (spectral plot** | Toggle plot normalization on/off |
| **s (spectral plot)** | Spawns a larger spectral display window |
| **o (spectral plot)** | Log plot |
| **1,2,3,4 (spectral plot)** | Adjust overall min and max limits |
| **N** | (views): Open axis and scaling menu, (elements): open Display Manu |
| **\_** | Sets the mean of the current ROI to zero via value offset |

**Color**

|  |  |
| --- | --- |
| **1, 2, 3, 4 (5, 6, 7, 8)** | Adjust lower (**1, 2**) and upper (**3, 4**) display limits, (**5-8**): Fine adjustments |
| **^, F2** | Cycle through complex number display modes (Abs. Mag., Phase, Real, Imaginary) |
| **o, O** | Toggle overflow/underflow (O: logarithmic) colormap |
| **r, g, b, G, R, G, “, §, %** | Set colormap to red (r), green (g), blue (b), gray (G), glow red (R), glow blue (B), random (“), cyclic (§), RdBu (%) |
| **c, d, !, C** | Ad-/devance colormap, !: invert colormap, C: Toggl multicolor overlay |
| **t, T** | Auto-adjust threshold to current ROI min/max values. |
| **V, V** | Toggle element in/out of muticolor display additively (**v**) or multiplicatively (**V**). |
| **u** | Set this element as gate element |
| **U** | Toggle gate on/off |

**Markers:**

|  |  |
| --- | --- |
| **m, M, n (in view)** | Add and remove a marker. (element) summarize marker, Marker Menu |
| **k, K, j, J** | **k, K**: new/remove Marker List, **j, J**: Ad-/eviance Marker List |
| **0, 9 , &** | Ad-/devance Marker with focus on marker, Tag/untag marker |
| **W, w, |, {** | **W**: Auto-track from here, w: change marker color, **|**: Align data to marker tracks |
| **Q, \, {** | **Q**: Delete trailing markers. **\**: split marker here (e.g. cell division), **{**: Reset alignment |

**ImageJ only:**

|  |  |
| --- | --- |
| **l (lower case L)** | (Re-)load the data. The currently active ImageJ data is imported and added as an element. |
| **X** | **In view**: export data back to ImageJ. **In single color view:** Export gray values.  **In Plot mode:** export plot. **In color overlay:** Export color display. |
|  | **Complex Data:** Export current display (Absolute Magnitude, Phase, Real, Imaginary). |
|  | **In element window:** Export raw data back to ImageJ (e.g. for histograms) |
| } | Marker property menu |

See also: <https://nanoimaging.de/View5D/View5DCommandReference.html>

**More Hotkeys**

|  |  |
| --- | --- |
| **p,P** | Toggle maximum and average projections of this view. |
| **Y** | Generate a binary mask from the currently active ROI |
| **x, y, z** | Mask active element as histogram x, y or z axis |
| **-, +, \*, /** | Perform corresponding mathematical operation with the gate channel |
| **Home, °** | Center cursor |
| **?, F1** | Display help information.  See also <https://nanoimaging.de/View5D>  <https://www.youtube.com/watch?v=fqa82MmJlAA&list=PL3LueK3ij6Wm2VjaaibNdulxFvA6VhVRv> |
| **f, F** | Upcast data to Float (f) or Short (F), useful for calculations. |
| **h, H** | Spawn histogram with currently marked x,y, z channels. (in histogram): create mask corresponding to ROI. |
| **$** | Free as much memory as possible and end viewer |