

ENTERING COMMANDS - USING MOUSE

| Microscope Control (UI) Functionality | |
|---|--|
| Key + Mouse button | Function |
| (Shift +) Click <i>single-arrow cursor</i> | Control: selects / activates a control element Toolbar Pause icon: pauses / releases (all) display(s) (Toolbar Photo icon / Snapshot icon / Scanning preset button: activates appropriate enhanced / alternative functionality) |
| (Ctrl +) Click <i>single-arrow cursor</i> | selects a graphical item within an imaging area (adds another one to the selection) |
| Click & drag (+ Shift) <i>single-arrow cursor</i> (with + / - magnifying glass icon) | selects a sample area to zoom in - dragging the mouse down-right (out - dragging the mouse down-left, up-left, up-right) |
| Shift + click & drag <i>hand-cursor</i> | activates the Beam Shift |
| Double-click | Electron / Ion Imaging Get mode: moves a point to the display center |
| | Optical Imaging places 7 mm marker |
| Ctrl + click & drag | controls the detector contrast / brightness by dragging the mouse left-right / up-down |
| Right-click & drag <i>double-arrow cursor</i> | focuses by dragging the mouse left-right |
| Ctrl + right-click & drag <i>four-arrow cursor with circles</i> | activates the Lens alignment |
| Shift + right-click & drag <i>four-arrow cursor</i> | corrects an imaging astigmatism by dragging the mouse left-right - X stigmator or up-down - Y stigmator |
| Ctrl + wheel-roll Up / Down | increases / decreases the magnification coarsely |
| Shift + wheel-roll Up / Down | increases / decreases the magnification finely |
| Ctrl + Shift + wheel-roll Up / Down | increases / decreases the digital zoom magnification |
| (Ctrl +) Wheel-click & drag | Electron / Ion Imaging Track mode: moves the stage (joystick-like control) |
| | Optical Imaging moves the stage in Z-axis direction (tilts the stage) by dragging the mouse up / down (left / right) |

ENTERING COMMANDS - USING KEYBOARD

| OS Windows & common Microscope Control (UI) Specific Keys | |
|--|--|
| Key(s) | Function |
| Enter | equivalent to the OK button in dialogs |
| Esc | 1. equivalent to the Cancel button in dialogs |
| | 2. stops the stage motion at that point <i>Note: During particular procedures, Home Stage for instance, use the software Cancel or Stop button!</i> |
| | 3. cancels the drawing mode on Patterning, Measurement & Annotation or Text cursor. |
| Tab | switches between entry fields or control elements within dialog boxes |
| Arrows | selects an item within list boxes |
| Alt (F10) | accelerator keys (underlines menu bar item characters) - by hitting it a corresponding menu list is expanded directly, subsequently another accelerator key can be selected |
| Alt + Tab | Switches between running applications: each time the Tab key is hit while holding the ALT key pressed a pointer jumps to another application icon. Releasing the Alt key at any time makes application just listed active. |
| Alt + F4 | closes active application or Windows operating system |
| Del(ete) | deletes a selection, texts or graphics |
| Ctrl + A | selects all items, texts or graphics within an active window |
| Ctrl + C | copies a selection to the clipboard - temporary memory |
| Ctrl + V | pastes content of the clipboard text: at the pointer position graphics: to a selected window |
| Ctrl + X | cuts a selection to the clipboard - copies and deletes it |

*Note: The given sequence of the key press and mouse button click is important.
The click / right-click / wheel-click represents click with the left / right / wheel mouse button.*

ENTERING COMMANDS - USING KEYBOARD

Microscope Control (UI) Function & Specific Keys

| Key(s) | Function |
|-------------------------------|---|
| F1 | displays documentation |
| Shift + F1 | displays Image properties |
| (Shift +) F2 | starts Photo with active beam (in all displays with the same beam at once) |
| Ctrl + (Shift +) F2 | starts / stops Active Preset Snapshot (from all displays at once) |
| (Ctrl +) F3 | toggles Videoscope On / Off (in all displays) |
| Shift + F3 | starts Home Stage procedure |
| (Ctrl +) F4 | starts / stops electron (ion) imaging Snapshot from active display |
| Shift + F4 | starts / stops Lens Alignment procedure |
| F5 | toggles Single / Quad Image modes |
| Ctrl + F5 | toggles Large Image Window mode |
| Shift + F5 | toggles Center Cross display |
| F6 | pauses / releases scanning |
| Shift + F6 | toggles Alignment rectangle display |
| F7 | toggles Reduced Area / Full Frame modes |
| Ctrl + F7 | starts Image Post Processing |
| F8 | starts Degauss procedure |
| (Shift +) F9 | starts Auto Contrast and Brightness procedure (in all live displays) |
| F11 | starts Auto Focus procedure |
| Ctrl + F11 | starts Auto Stigmator correction procedure |
| Shift + F11 | toggles Display Saturation function |
| (Shift +) F12 | toggles Compucentric (Scan) Rotation tool |
| Ctrl + O <i>number</i> | moves stage to X=0, Y=0 - Center Position procedure |
| Ctrl + Shift + A | starts / stops alternating of electron and ion imaging |
| Ctrl + B | toggles Beam Blank function |
| Ctrl + Shift + C | moves stage to Nav-Cam position |
| Ctrl + E | tilts stage to 0° |
| Ctrl + F | sets Electron / Ion beam focus to eucentric WD (7 mm / 19 mm) |

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| Key(s) | Function |
|---|---|
| Ctrl + H | sets Horizontal Field Width (HFW) |
| Ctrl + I | tilts stage to 52° |
| Ctrl + K | sets Spot mode conditions |
| Ctrl + L | starts Link Z to FWD procedure |
| Ctrl + M | sets Full Frame scanning conditions |
| Ctrl + Shift + M | starts movie recording |
| Ctrl + N | toggles Sample Navigation On / Off |
| (Ctrl +) Shift + N | starts to mill (previous) next pattern line |
| Ctrl + O <i>(letter) / S</i> | opens Preferences dialog at the last used / Scanning section |
| Ctrl + P | opens Print dialog |
| Shift + P | proceeds with next pattern |
| Ctrl + R | restarts scan |
| Ctrl + (Shift +) S | saves image (from all displays) |
| Ctrl + T | toggles Electron and Ion beams imaging for active display |
| Ctrl + Y | redo last operation |
| Ctrl + Z | undo last operation |
| Ctrl + Shift + Z | starts Take Nav-Cam Photo procedure |
| (Ctrl +) Pause <i>keyboard key</i> | starts / stops (/ resets) patterning |
| Ctrl + (Shift +) , | sets one step slower (slowest) scanning |
| Ctrl + (Shift +) . | sets one step faster (fastest) scanning |
| Ctrl + (Shift+) Tab | activates displays stepwise (backward) |
| Ctrl + Page Up / Down | switches within Control pages stepwise |
| Ctrl + 1 / 2 / 3 ... <i>letter keyboard</i> | selects the particular page (the number corresponds to the page icon sequence) |
| (Ctrl +) + / - keypad | increases / decreases the magnification 2× (Digital Zoom) |
| * keypad | rounds off the magnification / HFW to a nearest round value |
| Ctrl (+ Alt) + arrow | moves the digital zoom area (the pattern) by one screen pixel in the respective direction |
| (Shift +) Arrows | moves the stage approximately by (40%) 80% of the field of view in corresponding direction |