

# The Glacios microscope interfaces

## The microscope console

**Location:** right in front of you on the desk

**Role:** it provides direct control of some of the most important microscope parts:

- Magnification
  - Electron dose: spot size (C1 lens) and beam spread (C2 lens)
  - Focus (objective lens current)
  - Stage position (with the joystick and Z buttons)
  - Beam position (with the trackball)
  - and many other actions through the programmable switches (L/R1-2-3) and Multifunction X/Y knobs.
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## Gatan DigitalMicrograph (DM)

**Location:** On the left screen

**Role:** It controls the K2 direct electron detector.

- The beginner user will not use it.
  - [The expert user will use it to:](#)
    - prepare Dark, linear and counting / Super Resolution gain references.
    - measure the dose.
    - monitor the K2 health status.
    - troubleshoot the system.
    - perform cryo-cycle of the detector
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## SerialRM User Interface (SEMUI)

**Location:** On the left screen

**Role:** It provides camera/microscope commands to allow the user to screen its grids and setup an automated data collection.

- ==The beginner user will use it to:|
  - record the Atlases.
  - select squares and prepare the square maps at eucentric height.
  - select targets (holes).
  - screen targets (holes).

\* ++The expert user will use it to:

- perform all the actions described above.
- perform beam corrections (astigmatism, coma-free).
- perform calibrations.
- setup the dose rate, total dose and dose fractionning.
- setup the time and imaging modes for the different beam modes.
- center the different beam modes all together on the camera axis.

From:

<https://bsi.inscog.eu/> - **BSI wiki**

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