The TF20 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.

Gatan DigitalMicrograph User Interface (DM)

Location: On the left screen

Role: It controls the US10001 Camera.

- the user will use it to :
  - prepare Dark and gain references.
  - during screening, to acquire images in continuous mode.

SerialEM User Interface (SEM)

Location: On the right 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.

The TEM User Interface (TEM)

- The user will use it to:
- The expert user will use it to:

The TEM User Interface (TEM)

Location: On left screen

Role: It controls all the microscope systems.

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It is divided into 4 zones:
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The beginer user will use it to:
The expert user will use it to:
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The FluCam User Interface (FC)

Location: On the right screen

Role: It allows the visualization of the electron beam and the sample image.

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The beginner user will use it to:
The expert user will use it to:
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From:
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Last update: **2023/11/01 20:16**