

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.
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Gatan DigitalMicrograph User Interface (DM)

Location: On the left screen

Role: It controls the US10001 Camera.

- During screening, DM will allow acquisition in continuous mode.
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SerialEM User Interface (SEM)

Location: On the right screen screen

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

- **The user will use it to:**
 - record the Atlases.
 - select squares and prepare the square maps at eucentric height.
 - select targets (holes).
 - screen targets (holes).
 - center the different beam modes all together on the camera axis.
- **The expert user will use it to:**
 - perform all the actions described above.
 - perform beam corrections (astigmatism, coma-free).
 - perform calibrations.

The TEM User Interface (TEM)

Location: On left screen

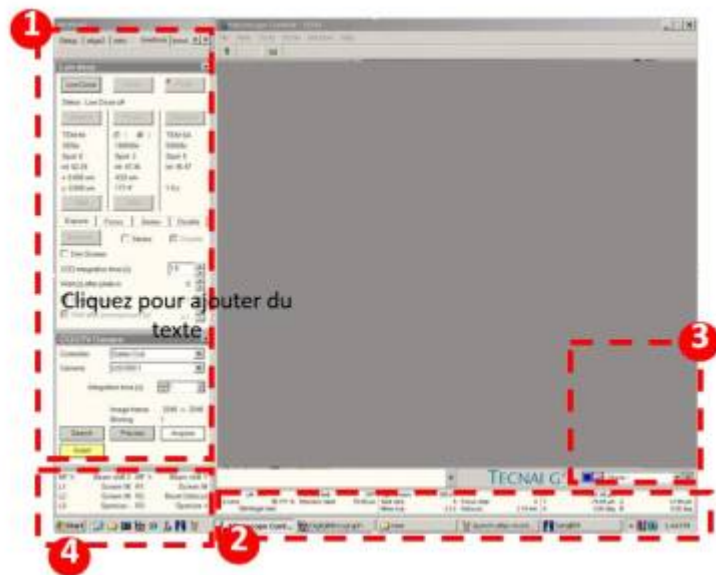
Role: It controls all the microscope systems.

* [For more details see:](#)

TUI interface

TUI interface is divided in 4 zones

- Zone1 : TUI tabbed pages hosting different commands allowing to control the ME and to know its working state.
- Zone 2 : Window giving values of working state : HT value, stage position, magnification, etc ...
- Zone 3 : Additional TUI Tabbed page
- Zone4 : Window defining functions of control panel button:



- [The beginner user will use it to:](#)
 - load/unload the grids in the column.
 - change and center the Condenser 2 and objective apertures.
 - control the turbo pump.
 - perform beam-shift adjustments.
 - manually set eucentric height.
- [The expert user will use it to:](#)
 - perform all the actions described above.
 - align the microscope.
 - troubleshoot the system.
 - perform cryo-cycle of the column.

The FluCam User Interface (FC)

Location: On the right screen

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

- **The beginner user will use it to:**
 - center the beams.
 - center Condenser 2 and objective apertures.
 - look for and move to particular features on their grids.
 - manually set eucentric height.

- **The expert user will use it to:**
 - perform all the actions described above.
 - align the microscope.

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