

# 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.

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

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## The TEM User Interface (TEM)

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

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## The TEM User Interface (TEM)

Location: On left screen

Role: It controls all the microscope systems.

It is divided into 4 zones:

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

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:  
The expert user will use it to:

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Last update: **2023/11/01 20:15**

