

Talos F200C:

Location: Marcus Family campus, bld. 51, floor 0, lab 008

The Thermo Fisher Scientific (former FEI) Talos F200C scanning / transmission electron microscope (S/TEM) is a powerful, versatile system for delivering 3D characterization of biological, materials science and nanotechnology research. The system's constant-power (C-TWIN) lens delivers outstanding optical performance to help ensure an optimal balance between contrast and resolution. Designed for room and cryogenic temperature applications, Talos F200C enables experimentation spanning the complete application range—from TEM observation and STEM imaging to Low Dose applications and diffraction analysis.

- S-FEG Schottky electron source
- High voltage range 20 – 2000 kV (aligned at 200 kV)
- High tilt ($\pm 70^\circ$) and large field of view
- TEM point resolution: 0.30 nm
- TEM information limit: 0.18 nm
- STEM HAADF resolution: 0.21 nm
- TEM magnification range: 25x – 650kx
- Low-Dose Exposure Technique
- Ceta 16M CMOS 16-megapixel 4k×4k digital camera with 14×14 μm^2 pixel sensor
- Phase plate for improved in-focus phase contrast in the image plane
- High-Angle, Annular Dark Field detector (HAADF) for STEM imaging
- On-axis Bright-Field/Dark-Field Detector for STEM imaging
- Single tilt, double tilt, tomography single tilt and single tilt liquid nitrogen cryo transfer 70 degree Gatan holders are available
- TEM Tomography data acquisition software and Inspect3D / Amira software for post data processing



Link to the manufacturer web site: <https://www.thermofisher.com/il/en/home/electron-microscopy/products/transmission-electron-microscopes/talos-f200c-tem.html>