

Transmission Electron Microscope Tecnai 12

Tecnai 12 is a Transmission Electron Microscope (TEM) that fulfil the purpose of standard TEM ultrastructural investigations. The microscope is a high contrast TEM. Montaging pictures can be acquired using a digital Morada camera and the Radius software.

The microscope is equipped with additional equipment for X-ray microanalysis (EDX) and scanning transmission (STEM), use for the elemental analysis or chemical characterization of a sample. Montaging pictures can be acquired using the TIA software.

Specification

Acquired in 2001

Filament: LaB6 (Lanthanum Hexaboride)

Accelerating voltage: up to 120 kV, operate at 80 kV

Imaging modes: Brightfield, Darkfield, STEM

Resolution: 0,2 nm

Magnifications: from 30 x

Image capture: MORADA CCD (3392 x 2248 x 16bit)

Detector: EDX

Software: Radius and TIA

