Transmission Electron Microscopes

Philips CM10 TEM (Philips Electronics, Eindhoven, The Netherlands)

The extremely capable CM 10 is a user friendly instrument. Ours has been upgraded with an AMT digital imaging system and has a LaB6 Filament for greater beam stability. With up to 100Kv accelerating voltage, the CM 10 is an excellent system for both biological and material imaging including plant cells, viruses, fimbriae and nanoparticles, as well as structure analysis and immunoelectron microscopy.
The system has a magnification range of 18× to 450,000×; an accelerating voltage range of 40Kv to 100Kv; and Resolution (objective lens): 0.5nm/5.0å (point), 0.34nm/3.4å (line).

Philips CM10 TEM Technical Specifications

Magnification	Range of 18x to 450,000 x magnification
Accelerating voltage	40 to 100Kv
Resolution	3 Angstrom Point to Point Resolution
Stage	60 to +60º Specimen Tilt
Image Capture	**AMT Advantage digital imaging system with Hamamatsu Orca 2 MPx HRL Camera (Advanced Microscopy Techniques, Woburn, MA**) 1024x1024 pixel format.
Other	LaB6 Filament for greater beam stability

Philips 420 TEM (Philips Electronics, Eindhoven, The Netherlands) with EDAX

The Philips 420 is equipped with a LaB6 filament and has an accelerating voltages up to 120Kv. Ours has been upgraded with an AMT digital imaging system. This instrument is equipped with an EDAX Genesis X-ray microanalysis system for materials characterization. Useful for biological and materials research.

Philips CM10 TEM Technical Specifications

Magnification	Range of 46x to 820,000 x magnification
Accelerating voltage	Variable acceleration from 20 KVto 120KvV
Resolution	0.34 nM Point to Point Resolution
Stage	-45 to +45º Specimen Tilt
Image Capture	**AMT 4000 digital imaging system with high resolution Hamamatsu ORCA 4 MPx HRL camera (Advanced Microscopy Techniques, Woburn, MA)** 2048 x 2048 pixel format.
Other	**EDAX PV9761/70ME Genesis system (Ametek EDAX, Mahwah, NJ)** -LaB6 Filament for greater beam stability -Cold finger attachment