

CX-200TM

Scanning Electron Microscope

Easy to use the best SEM

Have you ever thought Scanning Electron Microscope should be easy enough to operate and be shared commonly among numeral user. CX-200 offers high resolution and convenient usage so that anyone could obtain high magnification without difficulty.

Do your company have equipment operator because of the handling hardness of Scanning Electron Microscope?

Experience Coxem CX-200 and you will feel everyone could get high magnification image with small effort.



Specifications

Measurement Function

Item	Specification
Magnification	X15 ~ X300,000
Image	Secondary electron image(SEI) Back scattered electron Image(BSE) [Option]
Resolution	3.0nm (30KV, SE Image) 10.0nm (3KV, SE Image)
Accelerating Voltage	1KV ~ 30KV
Electron Gun	Tungsten Filament(W)
Image Shift	±50um [WD=10mm]
Lens System	2 Condenser lenses, Objective lens
Objective IRIS	Variable aperture with 4 different diameters (30um, 50um, 100um, 200um)
Optional Detector	EDS(Energy dispersive spectroscopy) WDS(Wavelength dispersive spectroscopy) BSE(Backscattered Electron)

Hardware Specification

Item	Specification
Dimension	Only SEM System size: 770 (W) X 880(L) X 1530(H)mm Weight : about 400 kg
Ideal installation room	About : 2800(W) x 2800X(L) x 2200(H)mm
Column	Conical Lens
Chamber	Max. Effect of vacuum more than 10^{-5} torr
Chamber Size	Max sample size 210mm dia
Manual Stage [CX-200TM]	Manual Stage: Manual Movement of X axis: 40mm, Y axis: 40mm, Z axis: 0~60mm, Tilt: -20°~90°, Rotation: 360°
Vacuum System [Turbo Pump]	Turbo molecular pump [210 liters/sec] - Max. Effect of vacuum 10^{-5} torr Rotary pump [100 liters/sec] - Max. Effect of vacuum 10^{-2} torr
Compressor	Pressure: 0.7Mpa, Storage Capacity: 15L
OS	Windows XP Window 7
Data Acquisition System	Monitor: 21.5" LCD CPU: CoreI5 RAM: 4G, HDD: 160G

Specifications

Software Specification

Item	Specification
S/W Specification	RED screen scan mode: 320x240 pixel Slow screen scan mode: 640 x 480 pixel, 840x630 pixel Photo screen capture mode I: 1280 x 960 pixel Photo screen capture mode II: 2560 x 1920 pixel Photo screen capture mode III: 5120 x 3840 pixel Brightness & Contrast Control Auto Focus Auto Filament Saturation Control Gun Alignment Line width & angle Measurement Info bar parameter Multi pre-save & delete Measurement results should be saved as BMP, JPG files

Utilities & Environment

Item	Specification
Electricity Power	AC220V±10%, 60Hz±1Hz, 3kVA AC110V±10%, 50Hz±1Hz, 3kVA
Vibration	X, Y, Z axis < 30dBa
Background Magnetic Field	Under 0.5 milli Gauss
Durable Temperature and Humidity	Temperature: 22±5°C. Humidity: 70% or less
Ideal installation room	About : 2800(W) x 2800X(L) x 2200(H)mm
Cleanliness	Ambient should be cleaner than CLASS 1000
Surroundings	Do not install a large electronic equipment in 50m Do not install a motor in 10m Do not install a transformer in 10m Do not install a electronic distribution board in 10m