

Scanning Electron Microscope

Brand: Hitachi

Model: TM3030 Table top Microscope

General Usage :

TM3030 is a table top Scanning Electron Microscope (SEM) that can magnify an object from 15 to 30,000 times. It had a depth of field better than optical microscope. This microscope has a charge reduction mode to minimize the charge up phenomenon while observing a specimen that has lower electrical conductivity. In addition, a SDD (Silicone Drift Detector) is installed in the microscope for elemental composition analysis of the specimen. Element from Boron to Americium can be detected and mapped on the specimen image.

TM3030 is also equipped with a cool-stage so that specimens with water content can be observed directly.

The 3D-View software can provide rough 3D image measurement of the specimen.

ENVF also install with a magnetron ion sputter device to coat a conductive layer on the specimen when charge reduction mode cannot provide satisfactory image results.

A t-butanol freeze drying device is also installed in ENVF for preparation of biological samples before using the SEM.

Application :

Image recording, qualitative elemental analysis and morphological investigations of specimen such as biological sample, print circuit board, particles etc.,

