

FEI Quanta FEG 650 Manual

Purpose –The FEI Quanta FEG 650 scanning electron microscope is a variable pressure microscope capable of resolving features at a scale of ~5 nm on samples up to 6-inch in size. The SEM is equipped with 8 detectors for imaging and analysis. This document describes important information and basic operation procedure for imaging.

User qualification –Do not intend to use it if you are not a qualified user. **Training** by Microscopy Core Facility (MCF) staff is **required**. Please contact MCF manager FenAnn Shen (fenann.shen@usu.edu) for training. Qualified users who did not use the microscope for 6 months will have to be requalified.

1. SEM Definitions & Process Terminology

Secondary Electrons (SE) –Electrons that are generated from the sample as a result of the SEM primary electron beam. These electrons have a lower energy (5 - 50 eV) than the primary electrons.

Back Scattered Electrons (BSE) –Primary electrons that are reflected from the sample by elastic scattering. These electrons have the same energy as the primary beam electrons and often provide good image contrast between different elements within an imaging field.

Quad –Computer screen has 4 independent windows. The bottom two quads are designated for the NavCam still image and the live video feed of the CCD camera. The top two quads may be used for imaging the sample. Clicking on a quad can activate it. The data bar at the bottom will be blue if the quad is active (Fig. 1). FS key can toggle between the quad view and enlarged active window view.

Figure 1



Column –A portion of the SEM that contains the electron gun, electromagnetic lenses, apertures, and ends with the pole piece. The column is isolated from the main chamber when the beam is off and is held under ultra-high vacuum ($< 10^{-8}$ Torr).

NavCam –A camera that is used to assist the operator in navigating the sample stage. By clicking at a particular point in the NavCam image, the stage will move that point to the electron beam.

Quanta 650 Operation Manual

M Woodhall



Quanta 650 Operation Manual:

The Enigmatic Realm of **Quanta 650 Operation Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Quanta 650 Operation Manual** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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