

## 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](mailto: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). PS 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

**Huangqi Zhang**



## **Quanta 650 Operation Manual:**

Nuclear Science Abstracts ,1974      **TMS 2019 148th Annual Meeting & Exhibition Supplemental Proceedings & The Minerals, Metals Materials Society**,2019-02-26 This collection features papers presented at the 148th Annual Meeting Exhibition of The Minerals Metals Materials Society      *Moody's OTC Industrial Manual* ,1995 Companies traded over the counter or on regional conferences      **Nuclear Science Abstracts** ,1973      **Resources in Education** ,1993

**Scientific and Technical Aerospace Reports** ,1973 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      CD-ROMs in Print ,1992      *Energy Research Abstracts* ,1989      **Technical Abstract Bulletin** ,1981      **Nineteen Seventy Three Comprehensive Manpower Assessment Survey** National Manpower and Youth Council,1976      *Audio* ,1979      *Forthcoming Books* Rose Arny,1991      Selected Technical Publications United States. Food and Drug Administration,1970 Each no represents the results of the FDA research programs for half of the fiscal year      *CD-ROM Directory 1996* Tfpl Publishing,1996-02 This 15th edition of a yearly report provides a guide to all CD ROM and multimedia titles published In addition to a full description of each title the book contains the names and addresses of all the publishers and information providers      **Selected Technical Publications** ,1970      *High Energy Physics Index* ,1971  
*Thomas Register of American Manufacturers and Thomas Register Catalog File* ,2002 Vols for 1970 71 includes manufacturers catalogs      British Books in Print ,1985      **Resources in Education** ,1993      **Directory of Portable Databases** ,1992

## **Quanta 650 Operation Manual** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Quanta 650 Operation Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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