With the JCM-6000’s highly-regarded touch-panel operating environment, the JCM-6000Plus has been further enhanced with a high-sensitivity backscattered electron detector providing high quality images, achieving a high-end, high-performance benchtop scanning electron microscope that is entirely user-friendly.

**Touch panel & Simple GUI**

"Easy" image acquisition

Improved image quality

High-vacuum mode and Low-vacuum mode provided as standard

Element analysis

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**Sample : Azulite**
Low-vac. BED-S
Accelerating voltage : 15 kV
Magnification : × 50

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**Sample : Patterns on Si**
High-vac. SED
Accelerating voltage : 15 kV
Magnification : × 5,000

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**Sample : Bacillus subtillis natto**
High-vac. SED
Accelerating voltage : 15 kV
Magnification : × 40,000
Installation of High-Sensitivity Backscattered Electron (BEI) Detector

Specifications

- **Magnification**
  - Secondary electron image: × 10 to × 60,000
  - Backscattered electron image: × 10 to × 30,000 (when image size is 128 mm × 96 mm)

- **Imaging mode**
  - Secondary electron image, Backscattered electron image (composition, topographic or stereoscopic image)

- **Accelerating voltage**
  - Secondary electron image: 5 kV, 10 kV, 15 kV (3 stages)
  - Backscattered electron image: 10 kV, 15 kV (2 stages)

- **Electron gun**
  - Small gun with cartridge filament integrating wehnelt

- **Bias current**
  - Auto bias (linked to accelerating voltage and filament current)

- **Condenser lens**
  - Two stage electromagnetic zoom condenser lens

- **Objective lens**
  - Electromagnetic lens

- **Auto magnification correction**
  - Magnification corrected with reference to sample height (7 mm, WD56 to 53 mm, WD10)

- **Preset magnification**
  - 6 levels, user programmable

- **Maximum sample size**
  - 70 mm diameter × 50 mm height

- **Specimen exchange**
  - Draw-out mechanism

- **Image memory**
  - One, 1,280 × 960 × 16 bits

- **Image processing**
  - Pixel accumulation, Image accumulation (recursible)

- **Automated functions**
  - Full-auto, filament adjustment, alignment, focus, stigmator, exposure

- **Metrology**
  - Distance between 2 points, angles

- **File format**
  - BMP, TIFF, JPEG

- **Computer**
  - PC (desktop PC), OS Windows®

- **Evacuation system**
  - Fully automatic, TMP : 1, RP : 1

Optional accessories

- **Tilt rotation motorized holder**
  - Tilt: -15° to +45°; rotation: 360°

- **EDS**

- **Smart coater**

- **2-axis motor drive stage**

Installation requirements

- **Power supply**
  - Voltage: Single phase AC 100 V (120 V, 220 V, 240 V)
  - 50/60 Hz, 700 VA (AC 100 V), 840 VA (AC 120 V), 880 VA (AC 220 V), 960 VA (AC 240 V), fluctuation ±10 % or less, with grounding

- **Installation Room**
  - Room temperature: 15 to 30 °C
  - Humidity: 60 % or less
  - Operation table: Sturdy table with a loading capacity of 100 kg or more

- **Weight**
  - Main console: approximately 50 kg
  - RP: approximately 9 kg
  - Power supply box: approximately 10 kg

- **Base unit dimensions**
  - (Width) 325 mm × (Depth) 490 mm × (Height) 430 mm

- **Specifications subject to change without notice.**

- **The official name of Windows is Microsoft(R), Windows(R), Operating System.**

- **Windows is a registered trademark of Microsoft Corp. in the U.S.**

- **Other trademarks referenced in this catalog and marked with* are the property of our allied companies.**

- **Sample:**
  - 1UXJSFɹ High-vac.
  - Accelerating voltage: 15 kV   Magnification: × 7,000

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