# JXA-8230 Electron Probe Micro Analyzer

SUPERPROBE

Powerful Analysis Tools Simple PC Operation



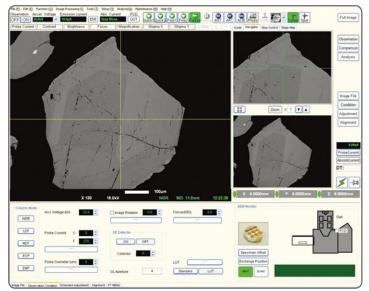
## **Powerful Analysis Tools - New PC Interface**



SEM image setup and Help display

### **Full Complement of Analysis Programs**

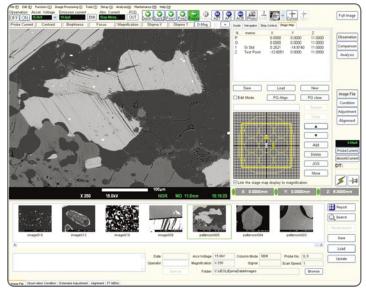
- Qualitative analysis
- Quantitative analysis
- Chemical state analysis
- Line analysis
- Electron Flight Simulator (Monte Carlo)
- Area analysis
- Phase analysis



Imaging mode display

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Analysis setup display



Viewing and navigation display

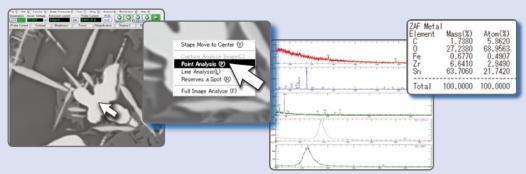
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Analysis position setup

# Simple Operation

The *SuperProbe JXA-8230* has a new PC-based operating environment for easy data acquisition and analysis coupled with JEOL's proven EPMA hardware. Its refined analysis menus are designed to navigate the operator through the analytical process to achieve the best results with speed and simplicity. The software contains new tools for:

• EPMA quick start: Click any point and then an analysis type to start a preset qualitative or quantitative ED or WD analysis

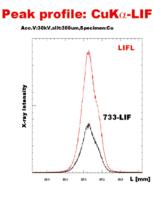


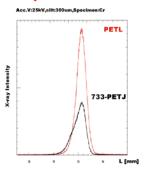
• User recipes: Save or recall a frequently used set of analytical conditions for a variety of different sample types. All column, EDS and WDS parameters are included in the recipe.

New Analysis						Spe	ectrum Sc	anning C	Condition
	Saved place 🔺	Comment	Ch	Crystal	Start [mm]	End [mm]	Dwell time	Step(L)	Meas. time.
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	All Element chd	Sch-Smin	3	PETJ	87.000	230.000	100	50	28
Shortcut	Carbonitrided steel.cn	H, N: LDE	2	TAP	70.000	220.000	80	60	20
	Minerals.cnd		5	LDE1H	90.000	155.000	400	200	13
Recent Analyses	Glass Quant end	A 7	2	LDE2	100.000	220.000	200	200	12

### New L-type Spectrometer

Two large-crystal wavelength spectrometer with large Rowland circle. Allows increase in count rate without sacrificing energy resolution and P/B ratio. Includes PETL (to resolve trace element overlaps such as Pb-U-Th) and LIFL (useful for resolving minor peaks such as rare earth elements) crystals.





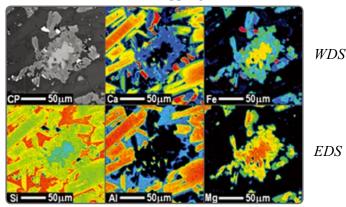
Peak profile: CrKα-PET

# **EDS Capabilities**

- Digital pulse processor
- Spectral mapping (WD/ ED, stage and beam scanning)
- Fan free SDD (option)



Combined WD and ED Mapping



### SuperProbe JXA-8230 Electron Probe Micro Analyzer

### Accessories

XCE-type X-ray Spectrometer L-type X-ray Spectrometer H-type X-ray Spectrometer XCE-type Four Crystal Spectrometer Transmission Illuminator LaB<sub>6</sub> Gun LN<sub>2</sub> Cold Finger Tilt/Rotation Substage

### **Installation Requirements**

#### **Power Supply**

#### **Cooling Water**

Faucet	One, Rc3/8 (hose side: R3/8)
Flow Rate	3 to 3.5 lit/min
Pressure	0.1 to 0.25MPa (gauge pressure)
Temperature	20±5°C
Drain	1 or more, two 10mm O.D. hoses should be used.
Dium	

Water recirculation system with fluctuation of  $\pm 0.1^{\circ}$ C is recommended.

#### Dry N<sub>2</sub> Gas

Pressure0.4 to 0.5 MPa (gauge pressure)Gas OutletISO7/1, Rc1/4 (internal thread)

#### **PR Gas**

Floor Space

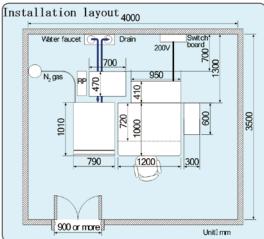
#### **Installation Room**

Temperature	$20\pm5^{\circ}C$ (fluctuation $\pm1C^{\circ}$ recommended)
Humidity	60% or less (dew must not condense)
Stray Magnetic	
Field	$0.3\mu$ T(p-p) or less (50/60Hz)
	$0.1\mu$ T(p-p) or less (DC)
Floor Vibration	$3\mu T(p-p)$ or less at 6Hz

With every JEOL instrument comes the promise of a reliable partnership and a source for solutions to your instrument and applications needs. JEOL provides the highest level of technical experience and support.

4000mm × 3500mm or more





#### **Specifications**

**Detectable Elements** WDS:  $(Be^{*1})$  B to U, EDS: B to U X-ray Range WDS: 0.087 to 9.3nm, EDS energy range: 20keV X-ray Spectrometers WDS: 1 to 5; EDS: 1 Maximum Sample Size  $100 \text{mm} \times 100 \text{mm} \times 50 \text{mm}(\text{H})$ **Accelerating Voltage** 0.2 to 30kV (0.1kV steps) **Probe Current Range** 10<sup>-12</sup> to 10<sup>-5</sup>A **Beam Current Stability** ±0.05 %/h, ±0.3 %/12h (W) **Secondary Electron Resolution** 6nm (W), 5nm (LaB<sub>6</sub>\*<sup>2</sup>) (WD 11mm, 30kV) **Scanning Magnification** 40 to  $300,000 \times (WD \ 11mm)$ **Scanning Image Resolution** Maximum 5120 × 3840 Color Display For EPMA analysis: LCD 1280 × 1024 For SEM operation and EDS analysis: LCD  $1280 \times 1024$ 

- \*1: With optional analyzing crystal for Be analysis
- \*2: LaB<sub>6</sub>: Optional

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#### http://www.jeol.com/

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