



k-Space Associates, Inc.



kSA 400 Electron Gun Control Plug-In Option

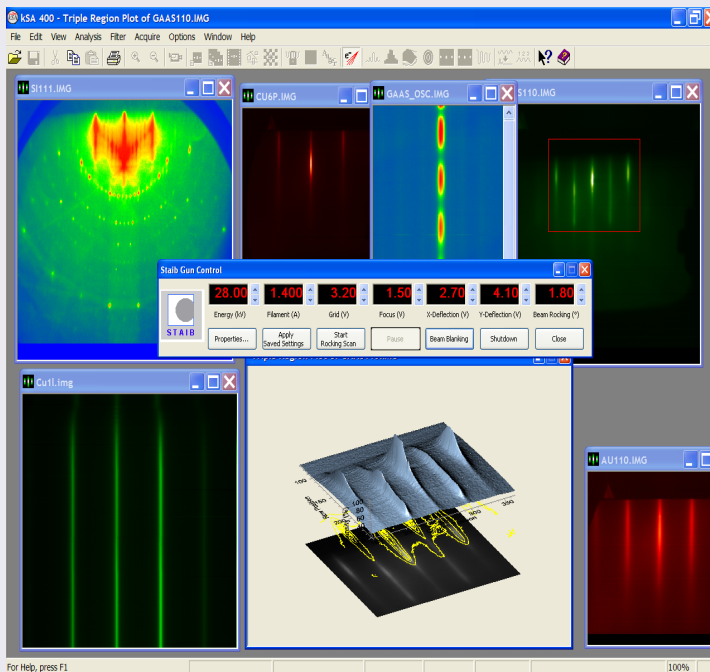
Direct Control of Key Electron Gun Parameters from your kSA 400

The kSA 400 Electron Gun Control plug-in option allows for full control of electron guns. Store gun control settings and immediately ramp to them, fine tuning while simultaneously viewing the diffraction pattern and acquiring Reflection High Energy Electron Diffraction (RHEED) rocking curves—all with the click of the mouse. Using a 16-bit D/A board for precise control, the Electron Gun Control plug-in generates a “front panel” control center for complete gun operation via the computer. Combined with the multi-threaded kSA 400 system, obtain complete gun control with simultaneous acquisition and analysis—the ultimate in analytical RHEED.

Features

- Supports Staib Instruments, R-DEC Co. Ltd., and other OEM lines of electron guns
- Integrated “front panel” for modifying electron gun settings while performing acquisition, analysis, or any other task
- 16-bit resolution of all electron gun control parameters and beam blanking on/off control
- Integrated, automated rocking curve via Energy-Resolved RHEED acquisition mode
- Simultaneous display of diffraction pattern and electron gun control settings
- Preset, user-defined gun control settings for immediate ramping to diffraction conditions
- Precise spot position maintenance through X and Y deflection 5th-order polynomial link to beam rocking (for Staib guns with beam rocking)

Simple Software and User Interface



Your partner in thin film metrology

k-Space Associates, Inc., is a leading supplier to the surface science and thin-film technology industries. Since 1992, we've delivered the most advanced thin-film metrology tools and software thanks to close collaboration with our worldwide customer base.

kSA400_ElectronGunControl July 31, 2019