



k-Space Associates, Inc.



STAIB Instruments



kSA 400 Electron Gun Control Plug-In Option

Direct Control of Key Electron Gun Parameters from your kSA400

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

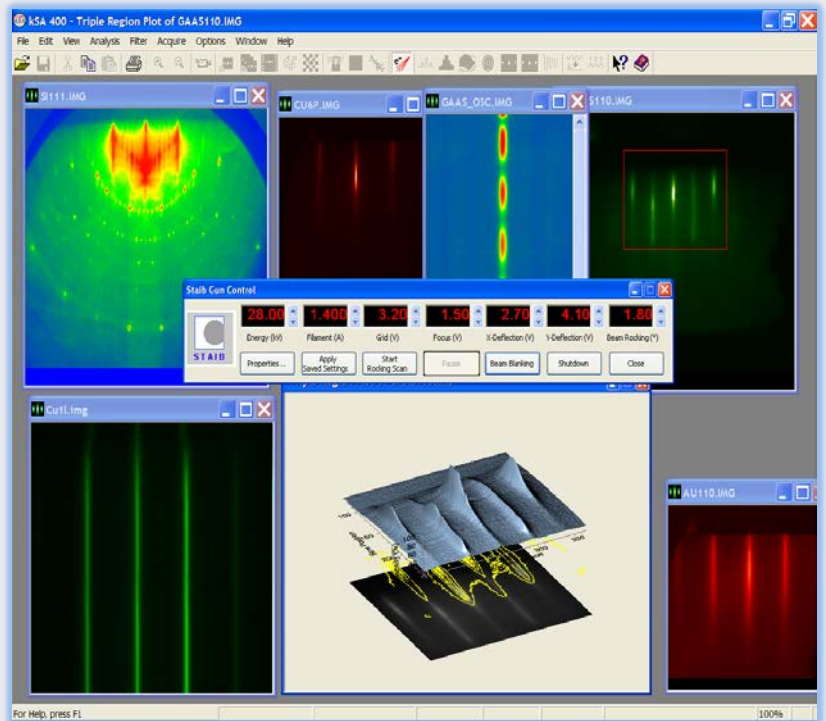
Integrated, automated rocking curve via Energy-Resolved RHEED acquisition mode

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.