

Solid state bright & dark field SEM STEM detector

- 2 channel bright field & single dark field diodes
- Excellent quality TV rate imaging
- PC control with USB interface
- Optional bellows for HV/UHV installations
- Optional motorised insertion/retraction

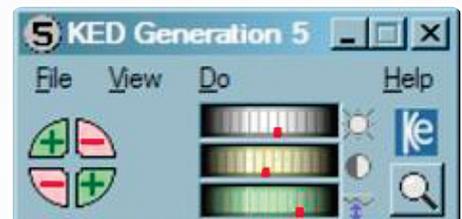
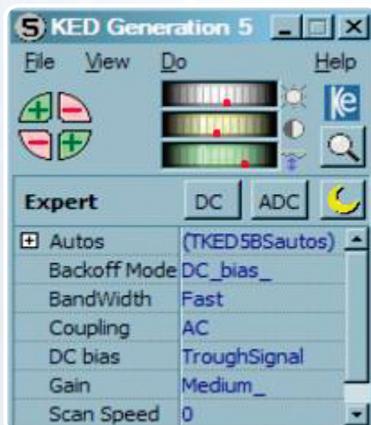
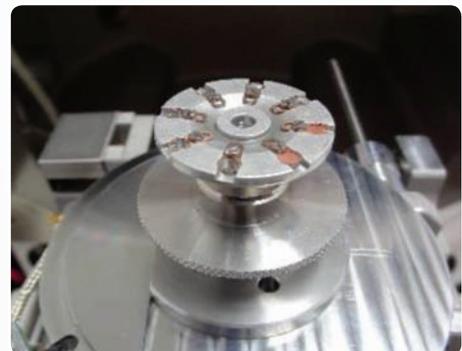
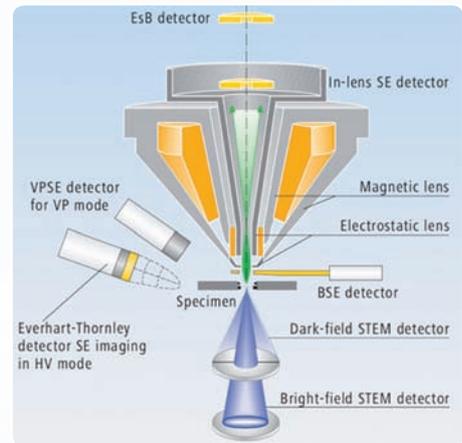
Gen5 STEM detector is configured with a four quadrant dark field diode wired to give two independent channels and a single bright field channel via 80µm aperture.

TEM specimen grids are easily mounted on the supplied 8 or 12 position grid holder (the version of grid holder supplied will depend on SEM stage travel).

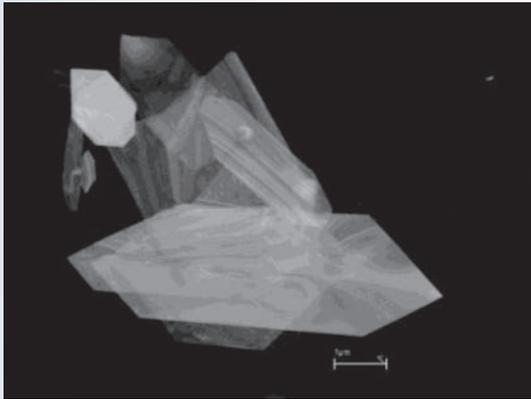
Any combination of bright and dark field diodes (including reversed polarity) may be selected for processing. The unique FIND feature allows even inexperienced microscopists to achieve good results at the touch of a button. The unrivalled scope of adjustment available to the operator then permits highly optimised images to be acquired and fed back into the SEM video system via the auxiliary video input for viewing, further processing and saving.

Gen5 STEM detectors can be optionally specified with motorised insertion/retraction which provides keypad as well as PC positioning control. Alignment of the detector position is better than 20µm. Position control is via a small pop up window on the console monitor and is particularly useful when the detector is mounted in an inconvenient position such as to the rear of the column, or when used in a hazardous environment such as a hot cell.

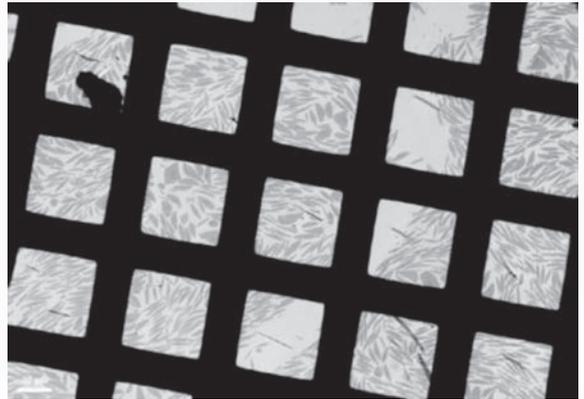
A metal bellows sealed version is optionally available for high vacuum or high temperature applications.



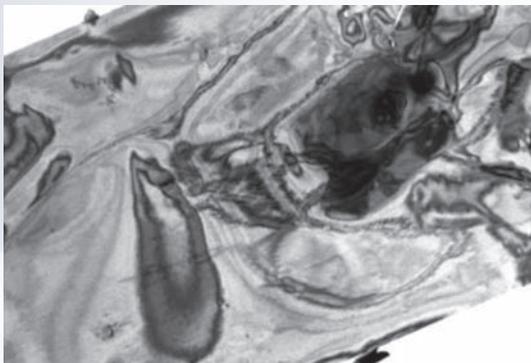
Applications:



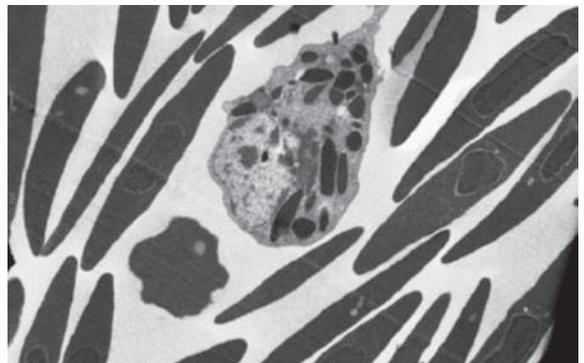
Dark field image of Molybdenum Oxide crystals



Low magnification blood cells



Bright field of Molybdenum Oxide image courtesy Andy Yarwood, JEOL UK Ltd.



High magnification blood cells

Specifications:

- Retractable mounting mechanics including feed-through flanges and mounting adaptors to suit most SEMs
- 8 or 12 position grid holder with mountings to suit SEM stage
- 3 channel system, two dark field channels and one bright field
- Dark field four channel low kV silicon detector 10x20mm square
- 80µm bright field aperture to single channel low kV silicon detector
- 8,000,000: 1 total gain range, auto control system with imaging to TV rate
- Generation5 amplifier system with all cables and manuals
- PC software for USB system control
- Auxiliary video input required on SEM for image display and saving
- Easy to use software control interface compatible with Windows™ XP/7.0 32 bit
- Operating voltage 115V/230V @100VA
- Fully CE and RoHS compliant

Options:

- Bellows sealing
- Motorised insertion/retraction with keypad and PC remote control

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