Microscope Accessory Solutions

High performance TV chamber scope systems for SEMs

Deben chamberscopes are available for all SEMs including current and past models.

- Available in Monitor or PC versions
- Slimline control box with membrane panel
- Supplied with a selection of lenses to choose required field of view
- Two chamberscope & one video input
- NTSC/CCIR compatible
- Auto power saving
- PC and front panel brightness control
- PC and front panel camera selection
- Monitor or PC video display
- Still image acquisition (Bitmap)
- Video acquisition (AVI)
- Compatible with Win XP/7.0/8.0 32/64 bit
- Compatible with existing chamberscopes from 3rd party vendors (for video display)
- High vacuum compatible
- X-ray shielded
- CE, RoHS, CSA & UL compliant

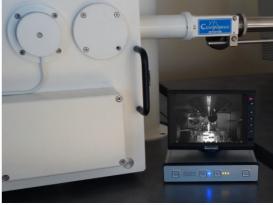








JEOL FEG camera



Zeiss camera with monitor



Different cameras are available depending on the SEM model and chamber port availability. The FEG camera has an innovative design allowing the camera to be removed for adjustment of focus or to change the lens (for selection of a different field of view) while still maintaining vacuum in the chamber. The camera and IR illumination components are outside vacuum behind a coated glass window. The camera is mounted to a removable flange which acts as an effective x-ray shield and heatsink for the camera components. For small ports or where no free port is available facing the final lens a Miniscope50 can be mounted on a bracket from the flange or another point inside the chamber.

Chamberscopes are supplied with wide angle and zoom lenses to allow field of view to be chosen at installation or changed by the user at a later date.

Systems are available with either a 5.6" TFT monitor or USB interface. The USB version allows for connection of two separate Deben chamberscopes to provide different chamber views and an additional video input which can be connected to a third party video source such as another chamberscope, or the SEM TV output to allow video recording.

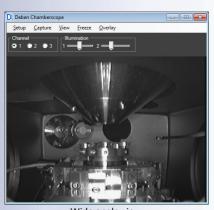
The monitor system allows for easy positioning of the control box on the SEM console and manual adjustment of chamber illumination using push buttons on the front panel.

The USB system allows for integrated installation on the SEM PC. Compatible with Windows XP/7.0/8.0, 32/64bit the chamberscope is easily installed and the control box can be hidden away behind the console.

USB is used for control of the illumination and video is acquired using either USB, or a PCI or PCIe card depending on PC specification. The video window can be sized to fit in a free area of your screen and you can select "always on top" to keep the window visible even when working with the SEM control software.



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2nd chamberscope view

Wide angle view

Specifications

- Available in monitor or PC versions
- TV video chamberscope to fit all common SEM chamber ports
- 2x Deben chamberscope inputs & one composite video input
- NTSC/CCIR video compatible
- Video source: LG 1/3" CCD, analogue 420 lines
- Illumination: by Infra-red diodes @ 890nm
- Power requirement: 90-250V supplied with worldwide socket adaptors
- Monitor: Colour, 5.6" TFT
- High vacuum compatibel
- X-Ray protection, tested and approved to OEM nstallation standards
- Lens: 6mm fitted as standard, additional 3.6mm and 12mm supplied (user interchangeable)
- Auto power saving
- CE, RoHS, CSA & UL compliant
- USB version features:

USB2 control of camera illumination

USB, PCI or PCIe interface for video acquisition

Select single or multiple video inputs

Images can be saved in .BMP, videos in .AVI formats

PCI and PCIe cards are full height as standard but we can supply low profile versions by special request USB version allows 2x chamberscopes to be connected & brightness is independently controlled

3rd input can be used for AVI video recording

Auto sleep/power down

Tilt angle measurement (on Tabletop SEMs only)

Convenient button for switching off illumination when imaging with solid state BSE



Tilt angle measurement



Miniscope50



PCIe video interface

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