



INFRARED CHAMBERSCOPE GW

- **COMPACT DESIGN**
- **LOW COST**
- **CONTINUOUS MONITORING OF THE INTERIOR OF THE SPECIMEN CHAMBER**
- **I-R ILLUMINATION CAN BE USED WITH SEM OPERATING**
- **CONSIDERABLY SPEEDS UP SPECIMEN EXCHANGE PROCEDURES**



Chamber view

The **INFRARED CHAMBERSCOPE GW** (General Workhorse) is the new compact low-cost entry-level product in the K.E.Developments range of Optical Surveillance Products (OSPs). Designed for optimum use with both Hitachi & JEOL SEMs the system can also be used with other SEMs with a suitable port in line with the field of view.

The system is intended for continuous monitoring of the inside of the SEM's specimen chamber. This new design offers a compact low-profile camera and IR illumination assembly to minimize conflict with other accessories.

A new airside infrared source is mounted directly to the metal work, allowing much higher light levels to be obtained without overheating the source.

Many research SEMs are now equipped with a variety of detectors and other accessories and physical conflict is often a major problem. The continuous view provided by the Chamberscope on its compact LCD screen clearly shows detector, lens and manipulator positions with respect to the specimen, enabling the operator to avoid possible damage.

Control Unit and Monitor



A particular benefit is in specimen exchange, which can be considerably speeded up. As soon as the chamber door is closed, the specimen and detectors may be positioned and ready for operation once evacuation is complete.

The **INFRARED CHAMBERSCOPE GW** therefore achieves a considerable time saving.

Ideally the **CHAMBERSCOPE** should be run continuously using its own dedicated Solid State Monitor. This provides a crisp, convenient display with no radiation to disturb SEM resolution.

FULL SOFTWARE INTEGRATION

For specific Jeol SEMs the **INFRARED CHAMBER SCOPE GW** is also available with a Personal computer Interface. Operating systems include; Windows XP, 2000 & NT 4.0.

In this configuration the chamber image is displayed as a window on the computer display.



Camera Unit (Example)

The window may be resized and relocated on the display. Brightness and contrast of the displayed image may be adjusted in software. The infrared illuminator is turned on or off as the image is enabled or disabled.

K.E.Developments is continually striving to keep its products at the leading edge of current technology. The product supplied may therefore differ in detail to that described in this brochure.

SPECIFICATIONS

Camera

Resolution 400 lines
Power 12V dc

Mounting

Chamber mounting available to suit most current SEM's. Pricing may vary according to particular make and model.

Control Unit

Free standing as illustrated

Controls

Line Power
Lamp Power
Lamp Brightness

Power Supply

90-260V ac
40-400Hz.

Illumination Wavelength 880nm.

Monitor

7 Inch LCD Colour Monitor. Mounted on power supply control module with adjustable tilt mount.

Warranty Period. Two years from date of purchase.



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