



# 5E

## High magnification inspection and measurement

For Industrial, Electronic and Research Applications



### Features:

- dual function inspection/ dimensional measurement
- high resolution spatial imaging
  - 25x-1000x magnification
  - elimination of eye and operator fatigue
- reduction of operator error
  - superb colour rendition
- high resolution special imaging
  - large field of view
- high precision, fast, simple measurement procedures

### As an option:

- sophisticated measurement software with report generation/SPC/datatransfer/ CAD input and output

### The Requirement

High magnification light microscopy is an everyday feature of a wide range of industrial, laboratory and research process. The use of conventional/binocular eyepiece microscopes causes operator fatigue and errors in critical inspection, measurement or screening. CCTV systems lack the resolution for accuracy at high magnification levels.

### The Solution

The 5E Dynascope employs the revolutionary and world patented Dynascopic system to offer high-resolution images for critical inspection and accuracy, repeatability and speed for non-contact measurement.

### The Advantages

Repetitive functions such as screening or quality control batch checking put the onus for accuracy onto the operator. The Dynascopic system optimises posture and eye comfort and dramatically enhances operator efficiency. Cost saving and competitive enhancement result from the increases in speed and accuracy.



Copper bush viewed at 10x magnification



Semiconductor and microelectronic applications



Checking metal formed and machined parts

The 5E has a range of accessories and configurations, which can be broadly categorised as follows:

- Dynascopic eyepieceless high-precision optical head.
- Precision, high stability stand.
- High performance, episcopic (through the lens) Koehler Illumination.
- Substage Illuminator (Koehler, for image profiles).
- A range of reticles, seen with both eyes including crossline, micrometer scale or target. A full reticle design service is available to customers drawings.
- Moveable electronic reticle (filar) option (for measurement within the field of view).
- A range of magnification options: 50x, 100x, 200x, 400x, 600x, 800x, 1000x. Standard Working Distance, Extra Long Working Distance, Super Long Working Distance.
- A range of high precision workholders and measuring stages:
  - 50mm x 50mm (LCD Readout)
  - 100mm x 100mm (2 micron resolution)
  - 150mm x 150mm (2 micron resolution)
  - 200mm x 150mm (1 micron resolution)
  - 400mm x 300mm (2 micron resolution)
- A range of data processing options: Customised software, SPC package and interface, Microprocessor 2 axis readout.
- A full range of image recording options including 35mm photo, Polaroid instant, CCTV/Video printer.

## Technical Specification

**Power supply:** Voltages available: 100, 110, 220, 240.  
50/60Hz switchable.  
400W max consumption.

**Resolution:** 1 micron in X, Y and Z axes.



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