

5D

High accuracy 3-axis non-contact measuring system



Features:

- 1, 2 or 3 axes systems
- full geometric software including computerised stage error compensation, multi-point entry, on-screen graphics
 - 3x-200x magnification
 - superb colour rendition
- high resolution special imaging
- fast and accurate stage management
 - large field of view and long working distance
- stable construction with cast stage
- permanent records with a wide range of camera options
- elimination of eye and operator fatigue
 - available with motorised CNC programmable drivers or a fast and precise manual system
- pre-entry of nominals and tolerances for pass/fail measurements
 - CAD in/CAD out facility

Precision measuring equipment plays a vital role in assuring the quality of your manufactured components. The use of measuring microscopes causes fatigue amongst inspectors whilst CCTV based systems cannot achieve the levels of resolutions required for such pinpoint accuracy. The 5 Series optical non-contact measuring system has been designed to eliminate both of these problems.

Employing the revolutionary Dynascopic system, the 5 Series provides *accuracy, repeatability* and *speed of use*, ensuring you get the very best system to safeguard your *reputation for quality*.

5 Series has applications in many industrial markets wherever there is a need for *fast, accurate optical inspection and measurement*.

Aerospace, electronics manufacture, semi-conductor, plastics, rubber, biomedical and metal fabrication industries all require sophisticated systems which are *simple* and *easy to operate*. With its computerised geometric function package offering multi-point, non-linear error compensation, SPC analysis, customised report generation and dimensional programming capability, the 5 Series fulfils even the most sophisticated requirements.

In addition to providing *accurate measurement*, the 5 Series has the advantage of providing *surface information* with *unsurpassed clarity*. Add to this, a *superbly stable structure*, a wide range of *accessories* and *illumination* sources, and the Vision Engineering name and you have the best value for money system available on the market.



CNC motorised system



Copper bush viewed at 10x magnification



Checking metal formed and machined parts

Options/Accessories

5 Series has a wide range of options and accessories

Measurement Stages

400mm x 300mm (16" x 12") motorised or manual

200mm x 150mm (8" x 6") high precision – motorised or manual

150mm x 150mm (6" x 6")

Data Processing and Representation

- Fully geometric 3 axis software with report generation and SPC package.
- 3 axis microprocessor with geometric functions.
- 2 axis readout.

Graticule/Reticle

A full range of fixed or movable reticles can be mounted in the Dynascopic head and are seen with both eyes.

An electronic movable filar reticle allows very precise measurement within the field of view and is linked to the software or microprocessor options.

A full customised reticle service is available, manufacturing to the user's own design.

Objective Options

Magnification	Field of view	Working distance
7x	20mm	90mm
10x	15mm	100mm
15x	9mm	74mm
20x	7mm	75mm
30x	5mm	85mm
40x	3.5mm	75mm
50x	3mm	57mm
100x	1.5mm	30mm

Illumination

- Surface, through the lens, substage.

Photographic

- Instant, 35mm, CCTV, Digital

Specifications

Electrical Supply: Voltage and frequency range: 100/110/220/240V, 50/60 Hz switchable.

Power consumption: 400W max.

Resolution: Readouts, software and stages resolve to 0.001mm.

Maximum capacities: X 400mm, Y 300mm, Z 140mm, weight 12kgs.

Computer and software interfaces: RS232, SPC, CAD in/CAD out.

Data transfer to other software



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