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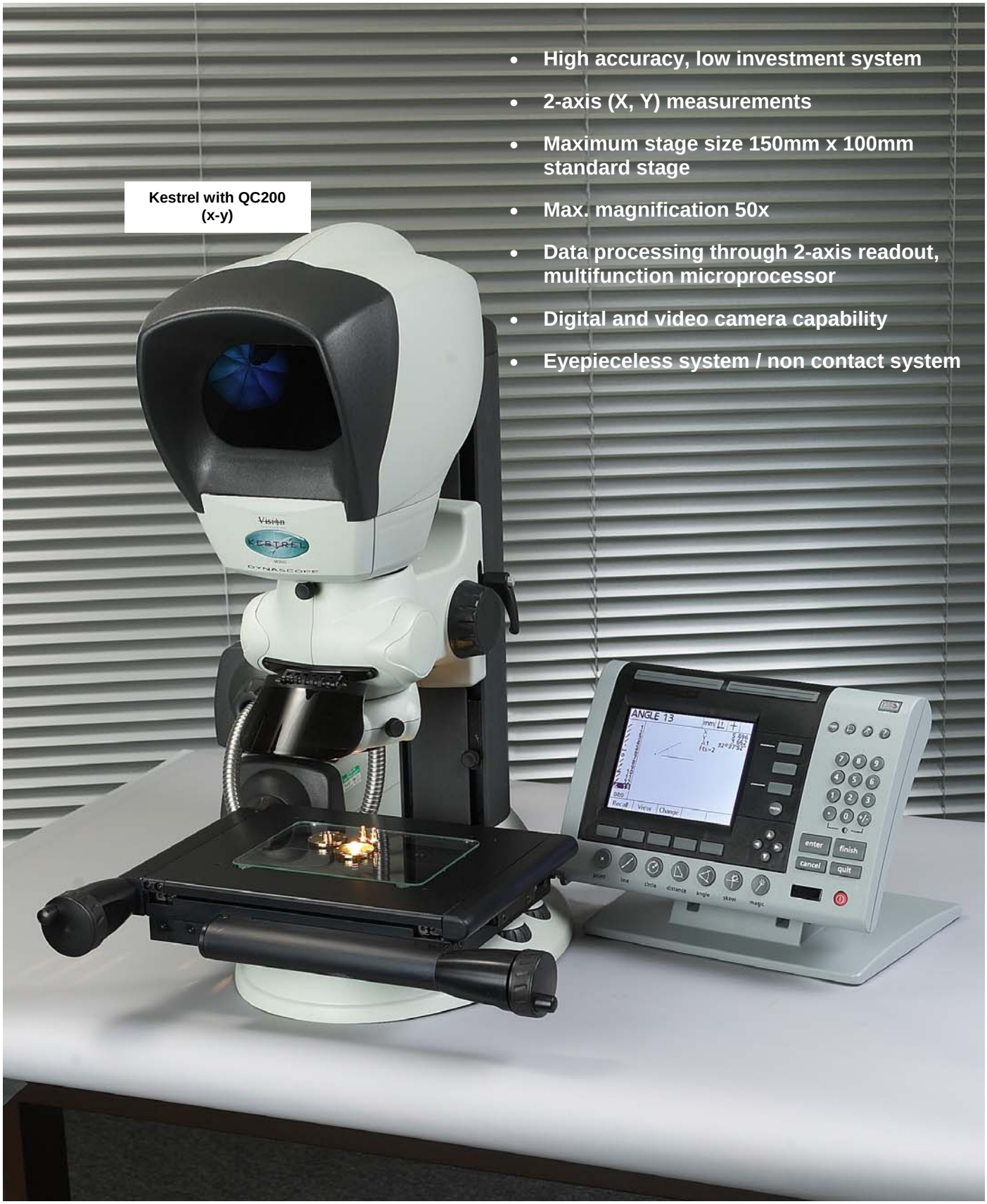
Low Budget Measurscope

# Vision Kestrel Measuring Microscope




- High accuracy, low investment system
- 2-axis (X, Y) measurements
- Maximum stage size 150mm x 100mm standard stage
- Max. magnification 50x
- Data processing through 2-axis readout, multifunction microprocessor
- Digital and video camera capability
- Eyepieceless system / non contact system

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# *Vision Kestrel Measuring Microscope*

**Kestrel with QC200 (x-y)**

Kestrel utilises a patented optical projection technology to provide a high resolution 2-axis non-contact measuring microscope.

Kestrel is the first non-contact measuring system to combine quality, accuracy, repeatability and optical performance, with in-line speed and ease of use in one low investment system.

High grade optics give superbly clear views of difficult, dark and intricate surfaces, with lighting from 2 x 30W semi-coaxial mounted spotlamps and 30W vertically aligned substage illumination. Quick-change magnification options are 10x : 20x : 50x (20x fitted as standard).

Accurate and fast displacement measurement is achieved through a high performance 3-plate aluminium stage giving 150mm x 100mm measuring range, 1µm/10mm stage accuracy and 4µm of system repeatability. The stage is gimbal mounted and adjustable to ensure critical parallel position between viewing head and stage plane.

The stage has factory completed non-linear error correction calibration which ensures optimum accuracy and is traceable to NPL/NAMAS/NIST standards for the purposes of ISO9000.

Kestrel comes complete with the multifunction QC-200 microprocessor, providing easy representation of X, Y measurements, both numerically and in graphic form. Results can be printed via a parallel printer port.

Kestrel can also be linked to external accessories such as digital camera or video/CCTV and has been designed to give best optical performance, accuracy repeatability, speed and ergonomics at an attractive price.

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# Vision Kestrel Measuring Microscope


**Kestrel with QC200 in the shop floor**

| Ref. no. | magnification | working distance | Field of view |
|---|---|---|---|
| K-007 | 10x | 81mm | 14mm |
| K-008 | 20x | 81mm | 7mm |
| K-009 | 50x | 61mm | 3mm |

**Stage details:**

- 150mm x 100mm (6" x 4") stage with 1 micron encoders for use with the QC200 Micro-processor
- Stage accuracy of 1µm /10mm
- Stage levelling facility for optimum stage plane accuracy

| *Configuration* | 150 x 100mm (6 x 4")<br>High Precision Stage<br>50x Magnification |
|---|---|
| Measuring Range X<br>Measuring Range Y | 150mm<br>100mm |
| Maximum Load Glass Plate | 10kg |
| Encoder Resolution X<br>Encoder Resolution Y | 1 microns<br>1 microns |
| Stage Accuracy | 1 micron per 10mm |
| Repeatability X<br>Repeatability Y | 4 microns<br>4 microns |
| Electrical Power | 110 - 220V +/- 5% 50-60Hz |

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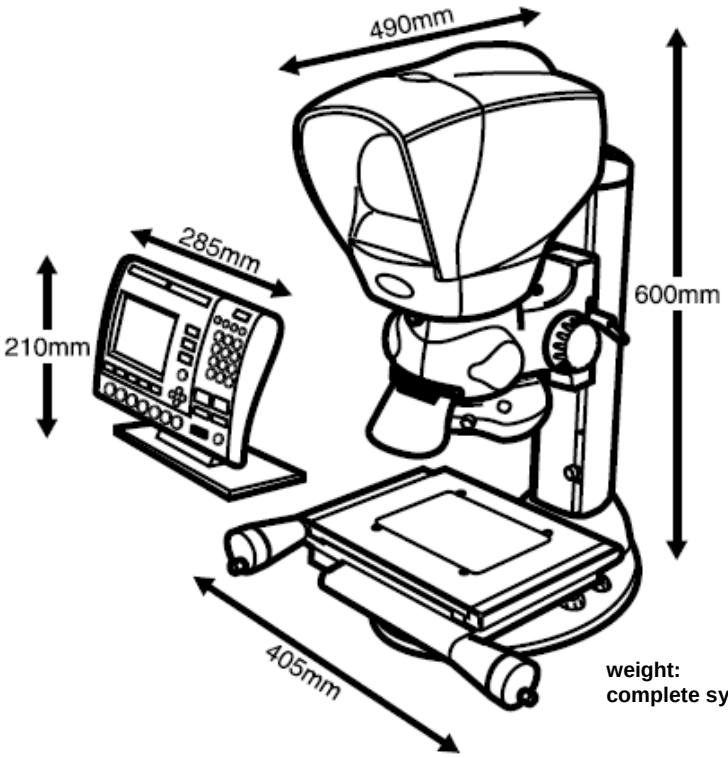
# Vision Kestrel Measuring Microscope

**Microprocessor QC100 or QC200:** With Kestrel, the QC200 multifunctional microprocessor provides easy representation of X, Y measurements both numerically and in graphic form. The unit has a full Non-Linear Error Correction Calibration across the full measuring stage which is preloaded into the microprocessor. Calibration is traceable to National Physical Laboratory (NPL/NAMAS/NIST) standards for the purposes of ISO9000.

**QC200 Series Microprocessor**
QC200 provides a compact microprocessor unit with an intuitive user interface and simple, meaningful digital readout display, capable of 2- and 3-axis measurement. Straightforward configuration and the easy-to-use interface makes the system ideal for factory floor use.

- Stand-alone and easy-to-use
- Non-Linear Error Correction (NLEC) pre-installed
- 2D Measurement Functions include:
  **Point** | **Circle** | **Angle** | **Line** | **Arc** | **Distance**
- Parallel printer / RS-232 port
- Language Formats: English | Spanish | Italian | German | French




**weight:**
**complete system including QC200: 39 kg**

To discuss the system configuration that best suits your application, please contact at us Ryf Ltd. to arrange a visit at one of our facilities either in Grenchen or Commugny/Geneva with the biggest choice of microscopes and cameras/software in and around Switzerland.