

# MSM-414 Microscope

## SERIES 377 – Zoom Stereo Microscope

- Bright, sharp images with real depth are obtained with high resolution and excellent colour fidelity, thus minimising eye fatigue while increasing inspection efficiency and productivity.
- A zoom objective allows continuous variation of magnification between 10X-40X using the standard eyepieces or 5-20X, 15X-60X and 20-80X using optional eyepiece sets. These ranges can be modified using optional auxiliary lenses that provide multiplying factors from 0.5X to 1.5X.
- To use the microscope the head is clamped at a suitable height on the column using the rear-mounted lock screw and the object brought into focus with the double-wheeled rotary control using either the left or right hand, or both, as convenient. A torque-limiter protects the precision gearing of the focus adjustment mechanism from damage.
- The microscope can be connected to a digital still-frame or video camera for capturing images of the object or for simultaneous observation on a TV or display monitor.

### Accessories Included

Two eye shades, dust cover

### Optional Accessories

See page J-8



377-946E

### SPECIFICATIONS

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Model                       | MSM-414                                                                                                                     |
| Code No.                    | 377-946E                                                                                                                    |
| Optical system              | Greenough type, erect, unreversed image, inward inclination angle 12°                                                       |
| Optical tube                | Binocular, viewing angle 45°, adjustable interpupillary distance between 54 and 76 mm, adjustable diopter (both eyepieces)  |
| Magnification switch system | Infinitely variable                                                                                                         |
| Objectives                  | 1X to 4X (zoom factor: 4)                                                                                                   |
| Auxiliary lenses (optional) | 0.5X, 0.75X, 1.5X                                                                                                           |
| Eyepieces                   | WF10X (visual field no: 20, standard), WF5X (visual field no: 22), WF15X (visual field no: 13), WF20X (visual field no: 10) |
| Total magnification         | 10X to 40X (with 10X standard eyepiece)                                                                                     |
| Working distance            | 80 mm                                                                                                                       |
| Height adjustment range     | 44 mm                                                                                                                       |
| Transmitted illumination    | Light source: halogen bulb (12 V, 15 W), with colour filter                                                                 |
| Reflected illumination      | Light source: halogen bulb (12 V, 15 W)                                                                                     |
| Power supply                | 220V AC, 50/60Hz                                                                                                            |
| Power consumption           | 20 W                                                                                                                        |
| Total mass                  | 5.1 kg                                                                                                                      |
| Price                       | £828.00                                                                                                                     |