

The Revolutionary Viewing System

MANTIS



Mantis bridges the critical gap between the microscope and the bench magnifier.

It meets the demands of higher magnification, flexibility, better illumination and a more ergonomic working position without eyepieces, all at an affordable price.

Vision's unique and patented spatial imaging system has resulted in Mantis becoming the Worldwide Industry Standard for low range magnification. Over 80,000 units have been installed in industrial, manufacturing, research, educational and many other sites worldwide.

Mantis has stereo optics, easily switched between x2, x4, x6, x8, x10 magnification. It gives good depth perception with optimal colour rendition, making inspection and manipulation of complex surfaces particularly effective.

Mantis has been designed to increase throughput and reduce mistakes by critically reducing eyestrain and body fatigue. Operators have a relaxed viewing position, large fields of view, long working distances and freedom of head movement. Mantis can also be used with glasses or contact lenses, if worn.



For Industrial Manufacturing, Biomedical & General Applications



Typical Applications

Electronics:

- PCB and component assembly
- Inspection - Goods inwards or quality control
- Rework and soldering

Precision Engineering/Plastics:

- Inspection - Goods inwards or quality control
- Microwelding, micromanipulation
- Injection moulding

Medical/Dental Device Manufacture:

- Micromanipulation/assembly
- Fine finishing
- Colour matching
- Rework

Biomedical:

- Sample preparation
- Manipulation/staining
- Dissection



The Queen's Award for Export
The Queen's Award for Technology



MANTIS FX® is a variant of the MANTIS which offers a rigid, focusable stand and bright, substage illumination. **MANTIS FX**® can be used with the range of Mantis magnifications (x2, x4, x6, x6 super long working distance, x8 and x10) and is ideal for higher magnifications.

FURTHER MANTIS VARIANTS

Other Mantis variants are available including:

MANTIS UV with ultra violet/white light sustainable illumination for conformal coating and crack inspection.

MANTIS STORK which is floor mounted on an extendable arm for easy movement.

MANTIS FX BRIGHT FIELD/DARK FIELD with a dark field illuminator for highlighting faults in glass, plastics, diamonds etc.

Technical Specifications

Lighting - 2 off, 12V, 20W Dichroic lamps (plus 1 off, 12V, 10W Tungsten Halogen lamp for FX variant)

Power - 240V, 110V, 100V switchable

Unpacked Weight - 12kgs (13kgs FX variant)

OBJECTIVE LENS SPECIFICATION				
<i>Lens</i>	<i>Total Linear Magnification</i>	<i>Working Distance (mm)</i>	<i>Depth of Field (mm)</i>	<i>Field of View (mm)</i>
x2	x2	171	25	56
x4	x4	86	11	28
x6	x6	55	5	20
x6SLWD	x6	112	5	20
x8	x8	41	3	15
x10	x10	41	2.5	12

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