

Includes **NEW**
image capture option

Vision
ENGINEERING



Mantis

Stereo Viewing Systems

for a wide range of inspection and material rework tasks

- Patented optical technology for fatigue-free viewing and superb image quality
- Wide range of magnification options (to x20)
- Long working distances; large depths of field
- Shadow-free true colour LED illumination

Mantis Compact is a high value, low investment stereo viewer excelling in the low magnification range for inspection or manipulation tasks where bench magnifiers have traditionally been used.

Patented optical technology allows operators freedom of head movement for superb ergonomics and hand-eye co-ordination, with the ability to wear glasses if required. Operators can increase productivity and improve quality, at an affordable price.

- High value, low investment system
- Superior ergonomics for improved productivity and increased throughput
- Long working distances for easy sample manipulation and rework
- x2, x4, x6 and x8 quick change objectives **NEW x8 objective**
- Bright white, true colour, LED illumination providing over 10,000 hours of shadow-free viewing
- Superb hand-eye co-ordination for inspection and manipulation tasks
- Patented eyepieceless optics maximise head freedom providing superb ergonomics and reduced eye fatigue



Mantis Compact, with counter-balanced universal stand, for flexibility and ease of use.



High stability bench stand, with integral focus and dimmable substage illumination.



Articulated arm, designed specifically for applications requiring extended reach, without compromising stability.

Options



Floating Stage

Provides smooth and sensitive control allowing for samples to be accurately inspected. For use with bench stand only.



UV Lighting

For UV inspection applications and fast and accurate fault detection.



Secondary Link Arm

A secondary link increases total reach of articulated arm to 847.5mm and provides added flexibility and manoeuvrability.



Floor Stand

Ideal for inspection where subjects are immobile or require a standing position. For use in conjunction with articulated arm. Lift, swing, tilt and rotate capability.

Optical Data

Objective Lenses	Working Distance	Field of View
x2	167mm	45.0mm
x4	96mm	27.5mm
x6	73mm	19.2mm
x8	58.5mm	14.3mm

Accessories

Lens protection caps
Dust cover
Replacement LED array



Buy Mantis Compact online - visit www.visioneng.com/shop



Mantis... Compact, Elite, Macro?

Vision Engineering has designed and manufactured world leading optical systems since 1958.

The Mantis family is a unique range of patented optical systems without eyepieces, for intricate tasks requiring superb quality viewing over long periods of time.

Mantis is in use in tens of thousands of sites worldwide and has become the accepted standard for ergonomics and high performance magnification.

Mantis Compact

Mantis Compact excels in the low magnification range for inspection or manipulation tasks where bench magnifiers have traditionally been used. Mantis Compact has a small footprint and low investment cost giving a superb price/performance ratio.



Mantis Elite

Mantis Elite offers a wider, higher performance specification including high magnification, large field of view, long working distance and head tilt capability. Mantis Elite has enhanced optical performance, making it a perfect alternative to traditional stereo microscopes for a wide range of inspection, preparation and manipulation tasks requiring hand-eye co-ordination.

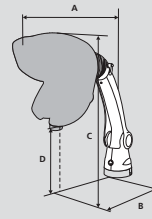


Mantis Macro

Mantis Macro offers a straight through in-line view of the subject, similar in operation to a bench magnifier, but with increased optical clarity and magnification. Mantis Macro offers a comparatively high magnification for an in-line viewer making it ideal for tasks which require exceptional hand-eye co-ordination and increased magnification.



Universal Stand



Mantis Compact

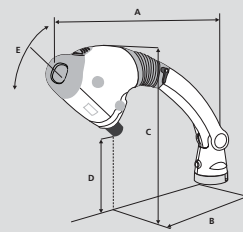
Dimensions:
A = 565mm - 775mm
B = 335mm - 545mm
C = 395mm - 605mm
D = 110mm - 320mm

Unpacked weight:
Head 2.1kg Stand 3.3kg
Packed weight:
Head 4.1kg Stand 4.6kg

Mantis Elite

Dimensions:
A = 593mm - 802mm
B = 352mm - 622mm
C = 415mm - 624mm
D = 103mm - 312mm

Unpacked weight:
Head 3.0kg Stand 3.3kg
Packed weight:
Head 5.0kg Stand 4.6kg

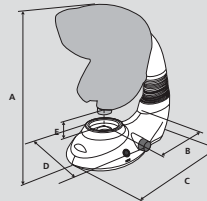


Mantis Macro

Dimensions:
A = 500mm - 700mm
B = 260mm - 450mm
C = 350mm - 570mm
D = 75mm - 300mm
E = 20° - 50°

Unpacked weight:
Head 2.6kg Stand 3.3kg
Packed weight:
Head 4.9kg Stand 4.6kg

Bench Stand



Mantis Compact

Dimensions:
A = 526mm - 641mm
B = 198mm
C = 487mm
D = 305mm
E = 123mm - 238mm

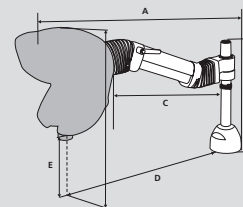
Unpacked weight:
Head 2.1kg Stand 4.5kg
Packed weight:
Head 4.1kg Stand 7.9kg

Mantis Elite

Dimensions:
A = 538mm - 653mm
B = 198mm
C = 487mm
D = 305mm
E = 122mm - 237mm

Unpacked weight:
Head 3.0kg Stand 4.5kg
Packed weight:
Head 5.0kg Stand 7.9kg

Articulated Arm



Mantis Compact

Dimensions:
A = 880mm
B = 430mm
C = 510mm
D = 650mm
E = 290mm

Unpacked weight:
Head 2.1kg Stand 11kg
Packed weight:
Head 4.1kg Stand 13.5kg

Mantis Elite

Dimensions:
A = 880mm
B = 430mm
C = 510mm
D = 650mm
E = 290mm

Unpacked weight:
Head 3.0kg Stand 11kg
Packed weight:
Head 5.0kg Stand 13.5kg

Illumination

Note: All Mantis use a 9V DC external plug transformer, available in all worldwide plug configurations.

Mantis Compact

Lighting Data		
Light intensity measured at subject plane with colour correction filters.		
20 LEDs	9,400 LUX	10,000 hours
Substage illumination (bench stand only)		
13 LEDs	1,200 - 4,000 LUX	10,000 hours

Mantis Elite

Lighting Data		
Light intensity measured at subject plane with colour correction filters.		
24 LEDs	11,000 LUX	10,000 hours
Substage illumination (bench stand only)		
13 LEDs	1,200 - 4,000 LUX	10,000 hours

Mantis Macro

Lighting Data		
Light intensity measured at subject plane with colour correction filters.		
40 LEDs	9,500 LUX	10,000 hours



Vision Engineering manufactures a comprehensive range of ergonomic stand-alone mono and stereo microscopes as well as a complete line of non-contact measuring systems.

For more information...

Vision Engineering has a network of offices and technical distributors around the world. For more information, please contact your Vision Engineering branch, local authorised distributor, or visit our website.

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