

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 Elite-Cam is a variant of the successful Mantis Elite stereo microscope, with internally integrated USB2.0 camera allowing effortless image capture and documentation.

Mantis Elite-Cam comprises of a standard Mantis Elite, with a factory-integrated digital camera, bringing image capture capabilities to the outstanding eyepieceless optics of Mantis. Mantis Elite-Cam offers superb optical performance with the ability to capture and archive images effortlessly.



Competitively priced Mantis Elite-Cam complete with integrated USB2.0 camera*

- Comprises of a Mantis Elite optical head, with factory integrated and sealed high resolution[†] USB2.0 camera
- Permanently engaged digital camera permits simultaneous optical and digital viewing
- Image projection capability ideal for training purposes
- USB2.0 connectivity with easy-to-use PC-based software
- Simple image capture allows for storage, reference and electronic communication
- Variety of image capture formats including: BMP, JPEG and PNG
- Compatible with all Mantis Elite options & accessories

Optical Data
See Mantis Elite
Elite-Cam includes:
USB Cable, 1 metre Standard image capture software Installation CD

* PC not supplied

† Please contact us for current specification

Unlike other Mantis, which have an upright optical path, the **Mantis Macro** provides straight through in-line viewing which makes the co-ordination of hand and eye even easier.

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



Mantis Macro, with counter-balanced universal stand and 30° tilting head facility, for flexibility and ease of use. Straight through in-line view for optimal hand-eye co-ordination and maximum working distance.

- Patented eyepieceless optical technology expands the exit pupil providing head freedom and eye relief for excellent ergonomics
- Straight through in-line optical path offers superb hand-eye co-ordination for inspection and manipulation tasks
- x2.5 – x5.0 magnification with quick change turret allows user to switch between magnifications
- Superior ergonomics for improved productivity and increased throughput
- Long working distance and large field of view for easy sample manipulation and rework
- Bright white, true colour, LED illumination providing over 10,000 hours of shadow-free viewing

Optical Data		
Objective Lenses	Working Distance	Field of View
x2.5	116mm	48.6mm
x5.0	66mm	23.8mm

Accessories
Lens protection caps Dust cover Replacement LED array

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.

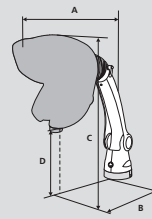


Mantis Macro

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

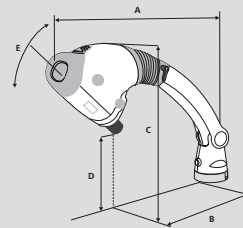
Unpacked weight:
Head 2.1kg Stand 3.3kg
Packed weight:
Head 4.1kg Stand 4.6kg

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

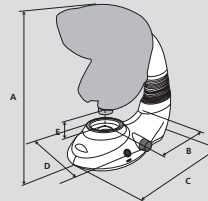
Mantis Macro



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

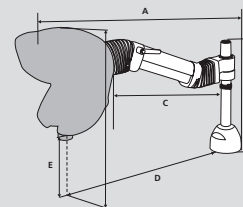
Unpacked weight:
Head 2.1kg Stand 4.5kg
Packed weight:
Head 4.1kg Stand 7.9kg

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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