



Mantis
Stereo Viewing Systems

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.

The latest generation of Mantis incorporates the most modern advances in optical design, moulded plastics and LED illumination.

The stereo eyepieceless Mantis viewer has a very wide range of applications but is often used in manufacturing industries including electronics, precision engineering, plastics, medical devices and many more. It is also widely installed in production laboratories, biomedical sites and in analytical laboratories around the world.

Particular advantages of the next generation Mantis are:

- Entry level, low investment versions
- Compact, functional units
- Wide range of magnification options (to x20)
- Shadow-free LED cold illumination, both surface and substage
- Long working distances; large depths of field
- Stable structures for high magnification viewing

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

The Company's patented optical viewers, microscopes and measuring systems are manufactured in Vision Engineering factories in the UK (2 sites) and the USA (2 sites).



Universal variable stand, counter balanced. Swing-away and easy focus. Quick move G-clamp base.



- High value, low investment
- x4, x6 quick change objectives
- Cold, long-life, true colour LED illumination
- Choice of stands (flexible swing arm or stable base)
- Long working distances
- Superb hand-eye co-ordination for manipulation
- Maximum head freedom
- Patented ultra-modern design



Objective Lenses		
Objective Lenses	Working Distance	Field of View
x4	96mm	27.5mm
x6	73mm	19.2mm

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

Power Supply
9V DC external plug transformer

Accessories
Lens protection caps Floating stage (for bench stand) Dust cover Replacement LED array

High stability Bench Stand with integral focus, dimmable substage illumination and floating stage option.

Universal variable stand, counter balanced. Swing-away and easy focus. Quick move G-clamp base. 25° tilting head facility.



- Superb optical performance
- x4 - x20 magnification options (2 in quick change turret)
- Super large exit pupil for maximum head freedom
- Extra large field of view
- Long working distances
- Cold, long-life, true colour LED illumination
- Choice of stands (flexible swing arm or stable base)
- Patented ultra-modern design



Objective Lenses		
Objective Lenses	Working Distance	Field of View
x4	96mm	34.0mm
x6	68mm	23.0mm
x8	59mm	17.0mm
x10	54mm	13.5mm
x15	40mm	8.8mm
x20	29mm	6.5mm

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

Power Supply
9V DC external plug transformer

Accessories
Lens protection caps
Floating stage (for bench stand)
Dust cover
Ultra Violet (UV) LED array
Replacement LED array

High stability Bench Stand with integral focus, dimmable substage illumination and floating stage option.

Mantis Compact?...Mantis Elite?

Mantis is available in two versions;

Mantis Compact and Mantis Elite.

Mantis Compact is smaller, with a lower magnification range and a considerably lower investment price. Mantis Elite offers a wider, higher performance specification including high magnification and field of view (field number), working distance and head tilt capability.

Mantis Compact excels in the low magnification range for inspection or manipulation tasks where bench magnifiers have traditionally been used.

Mantis Elite has enhanced optical performance, including higher magnification, making it a perfect alternative to traditional stereo microscopes for a wide range of inspection, preparation and manipulation tasks requiring hand-to-eye co-ordination.

Both Mantis Compact and Mantis Elite can be mounted on a counter balanced universal arm, or on a stable bench stand with integrated focus and substage (transmitted) illumination.



Mantis
Compact

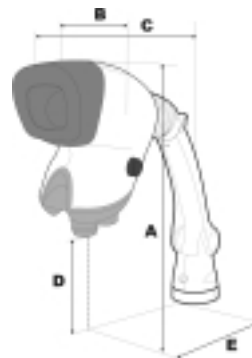


Dimensions:
A = 395mm - 605mm
B = 213mm
C = 565mm - 775mm
D = 90mm - 300mm
E = 335mm - 545mm

Unpacked weight:
 Head 2.1kg Stand 3.3kg

Packed weight:
 Head 4.1kg Stand 4.6kg

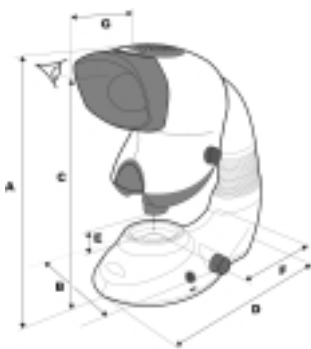
Mantis
Elite



Dimensions:
A = 415mm - 624mm
B = 212mm
C = 593mm - 802mm
D = 83mm - 292mm
E = 352mm - 622mm

Unpacked weight:
 Head 3.0kg Stand 3.3kg

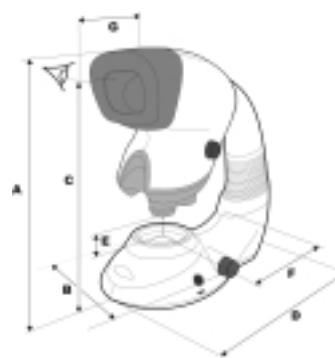
Packed weight:
 Head 5.0kg Stand 4.6kg



Dimensions:
A = 526mm - 641mm
B = 305mm
C = 487mm - 602mm
D = 487mm
E = 103mm - 218mm
F = 198mm
G = 123mm

Unpacked weight:
 Head 2.1kg Stand 4.5kg

Packed weight:
 Head 4.1kg Stand 7.9kg



Dimensions:
A = 538mm - 653mm
B = 305mm
C = 496mm - 611mm
D = 487mm
E = 102mm - 217mm
F = 198mm
G = 172mm

Unpacked weight:
 Head 3.0kg Stand 4.5kg

Packed weight:
 Head 5.0kg Stand 7.9kg

Power Supply - All Mantis units are powered with a wall plug socket transformer, available in all worldwide plug configurations and delivering 9V DC to the Mantis illuminator in the optical head or stand.