Mantis

Ergonomic stereo microscopes

Superior imaging for a wide range of inspection and re-working tasks





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. All Mantis systems aid with productivity and quality improvements.

Mantis Elite

Mantis Elite has enhanced optical performance, compared to the Mantis Compact, including higher magnification options, a large field of view and longer working distances.

- ✓ 2x 20x magnification options with quick change turret allowing users to switch between low and high magnification
- ✓ Superb hand-eye co-ordination for inspection and re-working tasks
- ✓ Bright true color LED illumination provides up to 10,000 hours of shadow-free viewing

Mantis Elite-Cam HD

Mantis Elite-Cam HD has all the features of the Mantis Elite, with the addition of an internally integrated USB digital camera, bringing image capture capabilities to the outstanding optical performance of Mantis.

- Quickly and simply add annotations / markup to captured images using the ViCapture software supplied
- Video recording (.avi), ideal for training purposes
- Optimized camera settings for individual applications, including white balance, gain, contrast, color channel gain

Mantis Compact

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

- ✓ 2x, 4x, 6x and 8x quick change objectives
- Patented eyepiece-less optics maximise head freedom providing unrivalled ergonomic performance
- ✓ Small footprint

Technical details

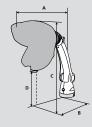
Stand options

Universal Stand



Bench Stand





Mantis Compact

Unpacked Weight: Unpacked Weight: Head 4.63lbs (2.1kg) Head 6.61lbs (3.0kg) Stand 7.28lbs (3.3kg) Stand 7.28lbs (3.3kg)

 Packed Weight:
 Packed Weight:

 Head 9.04lbs (4.1kg)
 Head 11.02lbs (5.0kg)

 Stand 10.14lbs (4.6kg)
 Stand 9.92lbs (4.6kg)

Power: 9V DC external plug transformer, available in all worldwide plug configurations.

Mantis Elite/Elite Cam HD

Dimensions:

A = 23.35" (593mm)
- 31.57" (802mm)

B = 13.86" (522mm)
- 24.49" (622mm)

C = 16.34" (415mm)
- 24.57" (624mm)

D = 4.06" (103mm)
- 12.28" (312mm)

Mantis Compact

Mantis Elite/Elite Cam HD

Dimensions:

A = 18.70" (475mm)
A = 18.70" (608mm)
B = 11.81" (300mm)
C = 14.96" (380mm)
D = 12.99" (330mm)
E = 10.08" (256mm max.),
less working distance

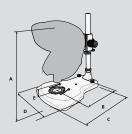
Dimensions:
A = 19.17" (487mm)
- 24.41" (620mm)
B = 11.81" (300mm)
C = 14.96" (380mm)
D = 12.99" (330mm)
D = 12.99" (330mm)
E = 10.08" (255mm max.),
less working distance

Unpacked Weight: Head 4.63lbs (2.1kg) Stand 13.23lbs (5.0kg)

Packed Weight: Head 9.04lbs (4.1kg) Stand 18.52lbs (8.4kg)

Packed Weight: Head 11.02lbs (5.0kg) Stand 18.52" (8.4kg) **Power:** 100-240VAC 50-60HZ 1.0A Max, available in all worldwide plug configurations.

Unpacked Weight: Head 6.61lbs (3.0kg) Stand 11.02lbs (5.0kg)



Mantis Compact - Optical Data				
Objective lens	Working distance	Field of view	Part No.	
2x	6.57" (167mm)	1.77" (45.0mm)	MCO-002	
4x	3.78" (96mm)	1.08" (27.5mm)	MCO-004	
6x	2.87" (73mm)	0.76" (19.2mm)	MCO-006	
8x	2.30" (58.5mm)	0.56" (14.3mm)	MCO-008	
Mantis Elite / Elite Cam HD - Optical Data				
Objective lens	Working distance	Field of view	Part No.	
2x	6.30" (160mm)	2.24" (57.0mm)	MEO-002	

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Objective lens	Working distance	Field of view	Part No.	
2x	6.30" (160mm)	2.24" (57.0mm)	MEO-002	
4x	3.78" (96mm)	1.34" (34.0mm)	MEO-004	
6x	2.68" (68mm)	0.91" (23.0mm)	MEO-006	
8x	2.32" (59mm)	0.67" (17.0mm)	MEO-008	
10x	2.13" (54mm)	0.53" (13.5mm)	MEO-010	
15x	1.57" (54mm)	0.35" (8.8mm)	MEO-015	
20x	1.14" (29mm)	0.23" (6.5mm)	MEO-020	
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Mantis Elite Cam HD Camera			
Part Number	MHD-001		
Sensor type	CMOS		
Resolution (HxW)	1600 x 1200 pixels		
Sensor size	1/3"		
Pixel size	2.8µm		
Color depth	8 bits		
Refresh rate (fps)	18,3 fps max.		
Interface	USB 2.0		
File formats	BMP, JPEG, PNG		
Power supply	USB powered		
Supplied software	uEye Cockpit and ViCapture		

Mantis Head and Stand Options					
Mantis Compac	t	Part No.			
Head		MCH-001			
Illumination: Light 20 LED	intensity measured at subject 9.400 LUX	plane with color correction filters Up to 10,000 hours			
Universal Stand		MCS-005			
Bench Stand		MBS-002			
Substage illumina	tion details (bench stand on	ily)			
58 LED	2.700 LUX	Up to 10,000 hours			
Mantis Elite					
Head		MEH-001			
Illumination: Light intensity measured at subject plane with color correction filt					
24 LED	11.000 LUX	Up to 10,000 hours			
Universal Stand		MES-005			
Bench Stand		MBS-002			
Substage illumina	tion details (bench stand onl	(y)			
58 LED	2.700 LUX	Up to 10,000 hours			
Mantis Elite Cam HD					
Head		MHD-001			
Illumination: Light intensity measured at subject		plane with color correction filter.			
24 LED	11.000 LUX	Up to 10,000 hours			
Universal Stand		MES-005			
Bench Stand		MBS-002			
Substage illumina	tion details (bench stand on	nly)			
58 LED	2.700 LUX	Up to 10,000 hours			