

# MANTIS

## THE Stereo Microscope



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

Mantis is THE stereo microscope brand trusted by thousands of customers globally to deliver excellent high quality images for a wide range of magnification applications, in an easy to use ergonomic system. Mantis is made in the USA at our manufacturing facility in Connecticut.



**Key Features**

- High quality optical stereo image
- Ergonomic working position
- Long working distance
- Customizable for a wide range of applications



### PIXO

MANTIS PIXO 5MP HEAD MPH001  
MANTIS PIXO UV 5MP HEAD MPH003

Mantis PIXO is an eyepiece-less optical stereo microscope with integrated digital camera and dynamic view optics.

- magnification 3x – 15x
- 5MP camera for video/image capture
- on screen annotation & custom overlays
- 3 lens multi-view turret
- dynamic 3D lighting
- white/UV lighting option

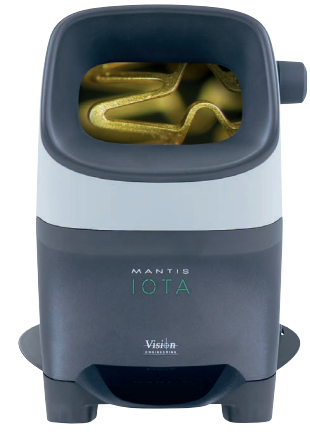


### ERGO

MANTIS ERGO HEAD MRH001  
MANTIS ERGO UV HEAD MRH002

Mantis ERGO is an eyepiece-less optical stereo microscope with dynamic perspective optics.

- magnification 3x – 15x
- 3 lens multi-view turret
- dynamic 3D lighting
- white/UV lighting option



### IOTA

MANTIS IOTA HEAD MIH001

Mantis IOTA is a compact eyepiece-less optical stereo microscope with dynamic perspective optics.

- magnification 3x – 8x
- interchangeable lenses
- synchronized LED lighting

### STANDS and ACCESSORIES

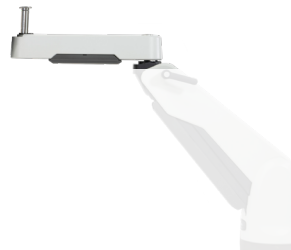
STABILA Stand  
Column and Base



VERSO ARM



VERSO Forearm  
Extension



PILOT Stage



	PIXO				ERGO				IOTA			
<b>Optical</b>												
Compatible Objective	3X	4X	6X	8X	10X	15X	6X SLWD	8X SLWD	3X	4X	6X	8X
Part Number	MTO003	MTO004	MTO006	MTO008	MTO010	MTO015	MTO007	MTO009	MTO103	MTO104	MTO106	MTO108
Max. Working Distance (mm)	100	100	68	60	54	40	114	113	104	108	74	61
Measured Max FoV (mm)	44.1	35.7	24.2	18	14.2	9.1	22.5	17.9	37.0	29.0	20.1	15.0
Pupil Diameter (mm)	23.5	23.6	22.4	19.4	17.0	12.3	17.0	14.4	22.8	23.6	22.0	18.0
<b>Illumination</b>												
<b>Incident options</b>												
Brightness	~21 k lux max								~26 k lux max			
Color Temp	5500K at max brightness								5500K			
Control	25 steps								25 steps			
<b>Transmitted (STABILA Stand Illuminated Base)</b>												
Brightness	36 k lux											
Color Temp	~4800K											
Control	25 steps											
<b>White and UV Illumination</b>												
Intensity	White: 11k lux    UV: 0.47 k lux, 53 $\mu$ W/cm2 max								-			
Peak Wave Length	~385nm								-			
Control	25 steps								-			
<b>Size (Head Only)</b>												
Depth x Width x Height	275mm x 218mm x 371mm								271mm x 196mm x 324mm			
Weight	PIXO				ERGO				IOTA			
Max. Operating (kg)	6.5				6.4				3.5			
Head Only (kg)	4.5				4.4				3.2			
<b>Camera (PIXO Only)</b>												
Camera Resolution	5.04 Mp				-				-			
Best Capture Resolution	2592 x 1944				-				-			
Frame Refresh Rate (max)	48 frames per second				-				-			
Sensor Type	Rear-illuminated CMOS				-				-			
Colour Depth	12-bit				-				-			
Interface	SuperSpeed USB3				-				-			
Output Connection	USC-C to PC				-				-			
Image Capture Formats (supplied software)	PNG, BMP, JPG				-				-			
Saved Image Sizes at Full Resolution (supplied software)	PNG - ~19MB BMP - ~19MB JPG - ~400KB				-				-			
Supplied Software	ViCapture iDS UEye Peak Software				-				-			
Optional Software	ViFox EVO DimensionOne DimensionTwo ViPlus				-				-			

<b>Stands and Accessories</b>					
	<b>VERSO ARM</b>	<b>VERSO FOREARM</b>	<b>STABILA COLUMN</b>	<b>STABILA BASE / ILLUMINATED BASE</b>	<b>PILOT STAGE</b>
Part Number	MTB200	MTB201	MTB210	MTB211 / MTB212	MTB220
Focus Travel	230mm	-	150mm		100mm x 100mm travel stage with auto lock to prevent unwanted movement
Throat Depth	502mm	+253mm	218mm		
Max. Subject	166mm	+10mm	146mm		