MANTIS
THE Stereo Microscope

Vision
ENGINEERING

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

Made in USA

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
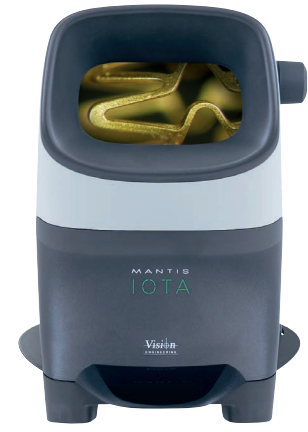- □ dynamic 3D lighting
- □ white/UV lighting option

ERGO

MANTIS ERGO HEAD	MRH001
MANTIS ERGO UV HEAD	MRH003

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
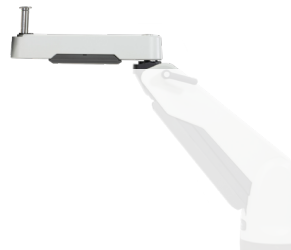- □ synchronized LED lighting

STANDS and ACCESSORIES

STABILA Stand
Column and Base

VERSO ARM

VERSO Forearm
Extension

PILOT Stage

www.visioneng.us   1.800.644.7264

	PIXO				ERGO				IOTA			
Optical												
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

Illumination

Incident options

	PIXO / ERGO	IOTA
Brightness	~21 k lux max	~26 k lux max
Color Temp	5500K at max brightness	5500K
Control	25 steps	25 steps

Transmitted (STABILA Stand Illuminated Base)

Brightness	36 k lux
Color Temp	~4800K
Control	25 steps

White and UV Illumination

	PIXO / ERGO	IOTA
Intensity	White: 11k lux UV: 0.47 k lux, 53µW/cm2 max	-
Peak Wave Length	~385nm	-
Control	25 steps	-

Size (Head Only)

	PIXO / ERGO	IOTA
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

Camera (PIXO Only)

	PIXO	ERGO	IOTA
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	-	-

Stands and Accessories

	VERSO ARM	VERSO FOREARM	STABILA COLUMN	STABILA BASE / ILLUMINATED BASE	PILOT STAGE
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		