

LARGE DEPTH OF FIELD 3D MEASURING MICROSCOPE (ADVANCED TYPE)

Part No. ISM-H5000-U

MAGNIFICATION
30-6000X

STEREOSCOPIC
3D IMAGING

IMAGE STITCHING

MOTORIZED
ZOOM LENS

MAP NAVIGATION

MOTORIZED
XYZ AXIS

2D/3D
MEASUREMENT



side camera shows the relationship between the lens and the workpiece, reducing the risk of collision



computer is included



tiltable observation



controller

- High definition telecentric imaging lens
- Auto focus
- 4 motorized switching objectives
- Split-screen display
- Rotatable stage
- Take picture and video
- Multiple illumination options for different products and scenarios
- Elimination of reflections and dark field halos, HDR, optical shadows
- Automatic stitching for large field view and measurement after stitching
- Measurements can be saved in reports and exported

SPECIFICATION

Magnification		30X~6000X
		(30X、40X、50X、80X、100X、150X、200X、300X、300X、400X、500X、700X、1000X、1500X、2000X、2500X、4000X、5000X、6000X,) 5000X and 6000X are digital magnification
Objective		1.5X, 5X, 20X, 50X
Horizontal resolution		0.42μm/0.0106μin
Maximum depth of field		1.18"
Working distance		.078~1.18"
Max. height of workpieces		3.54"
View field		.002×.0015~.393×.295"
Accuracy		±(19.68+0.005L)μin (L is measuring length or height in μin)
Illumination		bright field (full/zoned), dark field (full/zoned), hybrid lighting, projected lighting
Light source life		LED, lifespan about 40,000 hours
Maximum viewable pixel size		2D: 5 billion pixels, 3D: 2.5 billion pixels
Tilting angle range		-89°~+89°
Camera	sensor	1/1.7"CMOS
	pixel	12.22M (4168×3062)
	frame rate	30fps
	resolution	quick: 2048×1536, standard: 2880×2160, high resolution: 4000×3000, high definition: 8000×6000/12000×9000
Display	size	27"
	screen size	23.49×13.22"
	pixel pitching	.0061×.0061"
	resolution	3840×2160
Motorized stage	movement axis	X、 Y、 θ axis
	range	1.57×1.57"
	size	8.98×8.03"
	moving speed	.394"/s
	resolution	39.4μin
	θ angle of rotation	-90°~+90°
	max. weight of workpiece	11lb
Upper Z-axis	control mode	motorized
	moving speed	.65"/s
	resolution	3.94μin
	range	1.97"
Lower Z-axis	control mode	motorized
	resolution	39.4μin
	moving speed	.236"/s
	range	1.97"
Power supply		110V
Dimension (L×W×H)		23.62×12.6×27.95"
Weight		154lb

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Glass calibration plate	1 pc
Anti-dust cover	1 pc
16G USB flash disk	1 pc

SOFTWARE FUNCTION

Imaging	2D imaging, 3D imaging
	adjustable elimination of reflection
	adjustable elimination of ring halos
	HDR, adjustable brightness/contrast/color difference
	optical shadow
	jitter correction
	2D stitching, 3D stitching
	fast 3D synthesis, high precision 3D synthesis
Measuring	chromatogram height
	stitching measurement
	plane measurement (distance/angle/radius/area, automatic edge detection, scale display)
File	3D measurement (point height/profile etc.)
	take and save pictures, videos
	export report to Excel

COMPUTER SOFTWARE (INCLUDED)

