

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

CODE ISM-H5000

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, 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
Maximum depth of field		30mm
Working distance		2~30mm
Max. height of workpieces		90mm
View field		50.60×38.00μm~9977.30×7483.00μm
Accuracy		±(0.5+0.005L)μm (L is measuring length or height in μm)
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	596.736×335.664mm
	pixel pitching	0.1554×0.1554mm
	resolution	3840×2160
Motorized stage	movement axis	X、 Y、 θ axis
	range	40mm×40mm
	size	228mm×204mm
	moving speed	10mm/s
	resolution	1μm
	θ angle of rotation	-90°~+90°
	max. weight of workpiece	5kg
Upper Z-axis	control mode	motorized
	moving speed	16.5mm/s
	resolution	0.1μm
	range	50mm
Lower Z-axis	control mode	motorized
	resolution	1μm
	moving speed	6mm/s
	range	50mm
Power supply		220V
Dimension (L×W×H)		600×320×710mm
Net weight		70kg

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)

