

LARGE DEPTH OF FIELD 3D MEASURING MICROSCOPE (ADVANCED TYPE) CODE ISM-H5000

MAGNIFICATION 30~6000X STEREOSCOPIC 3D IMAGING

IMAGE STITCHING

MOTORIZED ZOOM LENS

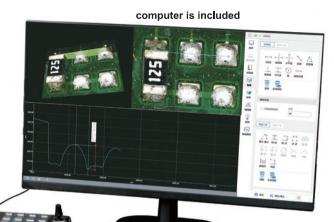
MAP NAVIGATION

MOTOR**I**ZED XYZ AX**I**S 2D/3D MEASUREMENT



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







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
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 angl		_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
	movement axis	X、Y、θ axis
Meterized	range	40mm×40mm
Motorized stage	size	228mm×204mm
olugo	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 sup	ply	220V
Dimension	ı (L×W×H)	600×320×710mm
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			
	2D imaging, 3D imaging		
	adjustable elimination of reflection		
	adjustable elimination of ring halos		
	HDR, adjustable brightness/contrast/color difference		
lmaging	optical shadow		
	jitter correction		
	2D stitching, 3D stitching		
	fast 3D synthesis, high precision 3D synthesis		
	chromatogram height		
	stitching measurement		
Measuring	plane measurement (distance/angle/radius/area, automatic edge detection, scale display)		
	3D measurement (point height/profile etc.)		
File	take and save pictures, videos		
T IIC	export report to Excel		

COMPUTER SOFTWARE (INCLUDED)

