

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、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 mm)	
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	
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
Measuring	fast 3D synthesis, high precision 3D synthesis
	chromatogram height
	stitching measurement
File	plane measurement (distance/angle/radius/area, automatic edge detection, scale display)
	3D measurement (point height/profile etc.)
	take and save pictures, videos
	export report to Excel

COMPUTER SOFTWARE (INCLUDED)

