

2.5D High Accuracy Manual Vision Measuring Machine

iVision Series

Less Error

Within 2um

High Accuracy

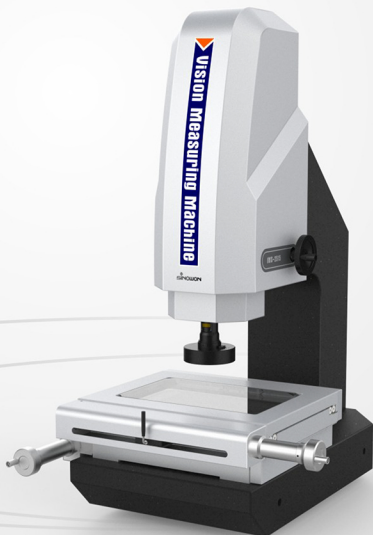
$\leq 3 + L/200\mu\text{m}$

High Resolution

700TVL Color CCD

Measurement Software

iMeasuring 2.1



Characteristic

- High precision Jinan Qing marble base and pillar, to ensure high stability and accuracy;
- High precision light pole toothless and fast moving locking device, to ensure the error of return travel is within 2um;
- High accuracy A grade optical linear scale with precision working stage, to ensure the accuracy is within 3+L/200um;
- High definitive detented zoom lens and high resolution color digital camera, to ensure clear image without distortion;
- With programmable formula surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and internal intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division;
- Powerful function iMeasuring2.1 measuring software highly enhance the quality control situation;
- Optional imported contact probe and 3D measuring software which can update it to 3D Measuring machine;
- Optional FexQMS Measuring Data Analysis and Real-time monitoring software which enhance program control and reduce material consumption.

Partial Display



Specifications

Mode	IMS-2010	IMS-2515	IMS-3020	IMS-4030	IMS-5040
Code#	521-140	521-150	521-160	521-170	521-180
Metal Table	408x308mm	408x308mm	458x358mm	608x470mm	708x470mm
Glass Table	306x198mm	306x198mm	356x248mm	456x348mm	556x348mm
X/Y-axis Travel	200x100mm	250x150mm	300x200mm	400x300mm	500x400mm
Dimension(WxDxH)	790x617x1000mm	790x617x1000mm	838x667x1000mm	1002x817x1043mm	1002x867x1043mm
Net Weight	175Kg	175Kg	185Kg	350Kg	380Kg
Z-axis Travel	High-precision linear guide , working travel 200mm				
X/Y/Z-axis Travel	0.0005mm				
X/Y-axis Accuracy*	±3+L/200(um)				
Repeatability	2um				
Base and Pillar	High Accuracy Jinan Qing Marble				
Illumination System (Software Adjustment)	Surface: Stepless Adjustable 4-ring 8-division LED Cold Illumination				
	Contour: LED Parallel Illumination				
	LED Laser Navigation Lights				
CCD	High Resolution 700TV Color CCD Camera				
Zoom lens**	6.5X High Resolution Detented Zoom Lens				
	Magnification : 0.7X-4.5X ; Video Magnification : 26X-172X				
Working Environment	Temperature:20°C±2°C, change range < 2°C/hr				
	Humidity:30-80%				
	Vibration<0.002g, <15Hz				
Measuring Software	iMeasuring 2.1				
Operation System	Support XP, WIN7, WIN8.1, WIN10,32/64 operating system				
Language	English, Simplified Chinese, Traditional Chinese, other language versions can be added				

* L is measuring length, unit is mm, the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece.

**Magnification is approximate value, it is related to the dimension of monitor and resolution.

Customers can choose 0.5X or 2X optional objective, and realize image magnification: 11X-86X or 52X-344X.