



B.N.C.TOOLING Co.,Ltd.

BNCTOOLING.COM
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



Vision Measuring Machine

3D iSemi Vision Measuring Machine

IMS-2010FP/2515FP/3020FP/4030FP/5040FP

Model	iMS-2010FP/2515FP/3020FP/4030FP/5040FP
Code#	521-160FP
Accuracy	$\leq 2.5+L/200(\mu m)$
Standard	GBT 24762, ISO10360
Certificate	CE



Brief Induction:

iSemi is the high accuracy semi-auto geometric vision measuring machines that integrate the sensor of optical detent zoom lens and 3D touch trigger probe system, and the Z-axis focus is motorized by the DC servo motor and it is adjustable by the software, it is widely applied at the industry of 3C, semiconductor, PCB, automobile parts, medical parts, precise molds, aviation and aerospace, etc.

Product Characteristics

- High precision marble base and pillar ensures the high stability of vision measuring system;
- High precision toothless rod and fast moving locking device ensures repeatability error is less than 2um;
- High precise working stage with 0.5um optical linear scales ensures the accuracy is less than 2.5+L/200um;
- High definitive detent zoom lens and high resolution digital camera ensures clear image without distortion;
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED telecentric illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 4-ring 8-division;
- Britain touch trigger probe and powerful function iMeasuring3.1 3D Measuring Software, highly enhance the quality control;



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Technical Specification

Commodity	Compound 3D Touch-probe & Autofocus & Manual-Stage Vision Measuring Machine				
Mode	iMS-2010FP	iMS-2515FP	iMS-3020FP	iMS-4030FP	iMS-5040FP
Code#	521-140FP	521-150FP	521-160FP	521-170FP	521-180FP
Working Table	270x350mm	408x308mm	458x358mm	608x470mm	650x580mm
Material	Marble Table	Metal Table	Metal Table	Metal Table	Marble Table
Glass Table	142x242mm	306x198mm	356x248mm	456x348mm	541x441mm
X/Y-axis Travel	200x100mm	250x150mm	300x200mm	400x300mm	500x400mm
Z-axis Travel	High-precision linear guide , working travel 200mm				
X/Y/Z-axis Travel	0.0005mm				
X/Y-axis Accuracy	$\leq 3+L/200(\mu m)$				
Repeatability Error	2um				
Base and Pillar	High Accuracy Jinan Qing Marble				
Illumination System(Software Adjustment)	Surface: Adjustable 0~255 grade 3-ring 8-division LED Cold Illumination, every division can be adjust independently				
	Contour: LED Parallel Illumination				
	Laser Navigation Lights				
CCD Camera	High Resolution Digital Camera				
Zoom lens	6.5X High Resolution Detent Zoom Lens				
	Optical Magnification: 0.7X~4.5X; Vision Magnification: 26X~172X				
Touch Probe	Britain MCP K2				
Focus Model	Autofocus				
Working Environment	Temperature: 20°C±2°C, change range < 2°C/hr				
	Humidity: 30% ~80%RH				
	Vibration<0.002g, <15Hz				
Measuring Software	IMeasuring3.2				
Operation System	Support XP, WIN7, WIN8.1, WIN 10,32/64 operating system				
Language	English, other language available				
Dimension(W*D*H)	677x558x980mm	790x617x1000mm	838x667x1000mm	1002x817x1043mm	1102x852x1085mm
Net Weight	175Kg	175Kg	185Kg	350Kg	380Kg



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Standard Delivery :

Accessories Name	Code#	Accessories Name	Code#
3D Measuring Software Kits	IM3.2	Autofocus system	527-140
Contour LED Parallel Illumination	425-100	MCP-K1 Touch probe	HK-0100-0001
Surface 4R/8D LED Illumination	425-130	Image card and AV Video Cable	527-130
Laser Positioning System	581-330	RS232 Data Cable	581-930
6.5X Detent Zoom Lens	421-100	Optical Calibration Block	581-800
650TVL Color Camera	484-130	Operation Manual	iSemi/iM

Standard Delivery :

Accessories Name	Code#	Accessories Name	Code#
6.5X Motorized Zoom Lens	421-140	Rotary Tables RT 2	581-520
12.5X Detent Zoom Lens	421-100	Rotary Tables RT 3	581-530
Coaxial Detent Zoom Lens	421-120	Working Cupboard ST 05	581-650
0.5X Auxiliary Objective	423-050	Swivel Center Support	581-850
2X Auxiliary Objective	423-200	Dell PC system	OptiPlex3046MT



Working Cupboard



DELL PC System