

CNC VISION MEASURING SYSTEMS (BASIC TYPE)



MOTORIZED ZOOM
OBJECTIVE IS OPTIONAL



ISD-R320

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Double close-loop motion control, with precise positioning performance in high-speed movement
- Granite body, more stable
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement

SPECIFICATION

Part.No	ISD-R320-U	ISD-R430-U	ISD-R540-U
Measuring range (X×Y×Z)	11.81×7.87×7.87"	15.75×11.81×7.87"	19.68×15.75×7.87"
Stage size	19.68×12.99"	23.86×18.34"	27.80×22.28"
Glass stage size	13.78×11.02"	17.72×13.78"	21.65×17.72"
Resolution of X/Y/Z axis	.00002"		
Accuracy of X/Y axis	≤(118.1+5L)μm (L is the measuring length in inch)		
Repeatability of X/Y axis	.00008"		
Objective	0.7X~4.5X (zoom)		
Working distance	3.62"		
View field (diagonal length)	.04~.26"		
Magnification	37.2X~236X (on 21.5" monitor)		
Camera	1/2" color CCD, 1.3M pixel		
Illumination	contour	programmable segmented ring light	
	surface	adjustable LED light	
Max. height of workpiece	7.87"		
Max. weight of workpiece	44lb		
Operation system	Windows 10/11		
Drive method	automatic		
Power supply	110V, 50/60Hz		
Dimension (L×W×H)	28.37×30.31×70.08"	27.56×39.37×70.08"	31.50×40.94×70.08"
Weight	595lb	716lb	1102lb

STANDARD DELIVERY

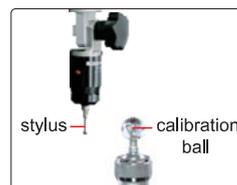
Main unit	1 pc
Software	1 pc
Dongle	1 pc
Controller	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Anti-dust cover	1 pc



programmable segmented ring light (included)

OPTIONAL ACCESSORY

0.5X auxiliary objective	code: ISD-Y-OB05X working distance: 6.89" magnification: 18.6~118.0X (on 21.5" monitor)
2X auxiliary objective	code: ISD-Y-OB2X working distance: 1.42" magnification: 74.5~472.0X (on 21.5" monitor)
Probe	code: ISD-Y-PROBE includes .79"DIA/Ø2mm and .118"DIA/Ø3mm, .984"DIA/Ø25mm calibration ball
Spectral confocal sensor	code: ISD-R-SCS (must be installed in factory)
Rotary table	code: ISD-R-RT (must be installed in factory)
Vision measuring system with coaxial light lens	code: ISD-R320L-U, ISD-R430L-U, ISD-R530L-U
Office software	code: 7313-OFFICE



stylus — calibration ball

probe (**optional**), includes .79"DIA/Ø2mm and .118"DIA/Ø3mm styli, .984"DIA/Ø25mm calibration ball, measuring accuracy is .0004"



spectral confocal sensor (**optional**), thickness of glass or plastic film can be measured according to the refractive index, measuring accuracy is 0.0002"



lens with coaxial light (**optional**)



rotary table (**optional**)

SOFTWARE (INCLUDED)

real-time image light controller measuring graphic

X/Y/Z axis

measuring results measuring tools measuring objects

The screenshot shows a software interface with several panels. On the left is a 'real-time image' showing a circular target with two black lobes. In the center is a 'light controller' panel with various icons. On the right is a 'measuring graphic' showing a technical drawing of the target with measurement lines and dimensions. At the bottom left is a 'measuring results' table with columns for X, Y, Z, and various parameters. At the bottom center is a 'measuring tools' panel with a grid of icons. At the bottom right is a 'measuring objects' panel with a list of objects and their properties. A red box highlights the 'measuring tools' and 'measuring objects' panels. The X/Y/Z axis is indicated by a red line pointing to the coordinate system in the real-time image.