

CNC VISION MEASURING SYSTEMS



computer is included

ISD-V500N-U

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement

SPECIFICATION

Part No.	ISD-V500N-U	ISD-V501N-U	ISD-V500HN-U	ISD-V501HN-U
Measuring range (X×Y×Z)	18.50×14.57×7.87"	19.68×15.75×7.87"	18.50×14.57×15.75"	19.68×15.75×15.75"
Stage size	30.94×25.04"	33.30×27.40"	30.94×25.04"	33.30×27.40"
Glass stage size	22.44×18.50"			
Resolution of X/Y/Z axis	.00002"			
Accuracy of X/Y axis	≤(98.4+10L)μin (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)	.06~.43"			
Magnification	33.0X~208.6X (on 24" monitor)			
Camera	giga-bit network camera			
Illumination	surface	coaxial light, programmable segmented ring light		
	contour	adjustable LED		
Max. height of workpieces	7.87"	15.75"		
Max. weight of workpieces	66lb			
Operation system	Windows 7/8/10			
Drive method	automatic			
Power supply	110V, 50/60Hz			
Dimension (L×W×H)	50×47.24×73.62"	55.31×49.60×73.62"	50×47.24×81.50"	55.31×49.60×81.50"
Weight	1918lb	2204lb	1984lb	2270lb

STANDARD DELIVERY

Main unit		1 pc
Video card with dongle		1 pc
Software disc		1 pc
Lens with coaxial light		1 pc
Controller		1 pc
Computer		1 pc
Calibration glass chart		1 pc
Laser positioner		1 pc
Clay		1 pc
Anti-dust cover		1 pc



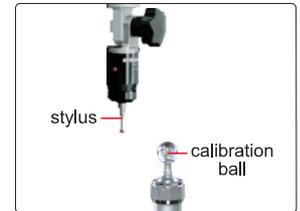
lens with coaxial light (included)



programmable segmented ring light (included)

OPTIONAL ACCESSORY

0.5X auxiliary objective	part no. ISD-V-OB05X working distance: 6.89" magnification: 16.5~104.3X (on 24" monitor)
2X auxiliary objective	part no. ISD-V-OB2X working distance: 1.42" magnification: 66~417.2X (on 24" monitor)
Probe	part no. ISD-V-PROBE includes .079" DIA/Ø2mm and .118" DIA/Ø3mm styli, .984" DIA/Ø25mm calibration ball
Office software	part no. 7313-OFFICE



probe (**optional**), includes .079" DIA/Ø2mm and .118" DIA/Ø3mm styli, .984" DIA/Ø25mm calibration ball, measuring accuracy is .0004"

SOFTWARE (INCLUDED)

- Refer to page 409~410 for details

The screenshot displays the software interface with several key components labeled:

- real-time image:** The main window shows a live video feed of a circular object with two dark, curved features.
- X/Y/Z axis:** A 3D coordinate system is visible in the bottom right corner of the main window.
- light controller:** A panel on the right side of the interface allows for adjusting the light source.
- magnification of selected points:** A zoomed-in view of the selected points is shown in the top right corner.
- measuring graphic:** A graphic overlay on the real-time image shows the measured dimensions of the object, including a radius of R1.4999 and a diameter of D5.0017.
- measuring objects:** The bottom left corner shows a list of measured elements, including ARC1, LR1, LR2, LR3, and LR4.
- measuring results:** The bottom center of the interface displays a table of measurement data.
- measuring tools:** A toolbar on the left side of the interface provides various measurement and navigation tools.
- movement controller:** A panel on the right side of the interface allows for controlling the movement of the probe.