

# CNC VISION MEASURING SYSTEMS (STANDARD TYPE)



ISD-V220CNCA

- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement
- Measuring software is included (page 671~672)

## SPECIFICATION

Code	motorized zoom lens	ISD-V220ZA	ISD-V220ZHN	ISD-V270ZA	ISD-V270ZHN	ISD-V370ZA	ISD-V370ZHN
	manual zoom lens	ISD-V220CNCA	ISD-V220HN	ISD-V270CNCA	ISD-V270HN	ISD-V370CNCA	ISD-V370HN
Measuring range (X×Y×Z)		220×120×150mm	220×120×300mm	270×170×150mm	270×170×300mm	370×270×150mm	370×270×300mm
Stage size		450×280mm	450×280mm	500×330mm	500×330mm	606×466mm	606×466mm
Glass stage size		306×196mm	306×196mm	350×250mm	350×250mm	450×350mm	450×350mm
Resolution of X/Y/Z axis		0.5μm					
Accuracy of X/Y axis		≤(2.5+L/100)μm (L is the measuring length in mm)				≤(3.5+L/100)μm (L is the measuring length in mm)	
Repeatability of X/Y axis		2μm					
Objective		0.7X~4.5X (zoom)					
Working distance		92mm					
Magnification		33.0X~208.6X (with manual zoom lens, on 24" monitor) 31.9X~188.7X (with motorized zoom lens, on 24" monitor)					
Camera		giga-bit network camera					
Illumination	surface	coaxial light, programmable segmented ring light					
	contour	adjustable LED light					
View field (diagonal length)		1.5~10.8mm					
Max. height of workpiece		150mm	300mm	150mm	300mm	150mm	300mm
Max. weight of workpiece		30kg					
Operation system		Windows 7/8/10					
Drive method		automatic					
Power supply		220V, 50/60Hz					
Dimension (L×W×H)		760×600×900mm	760×600×1050mm	760×600×900mm	760×600×1050mm	970×670×940mm	970×670×1090mm
Weight		146kg	156kg	168kg	178kg	266kg	276kg



software flash disk  
(included)



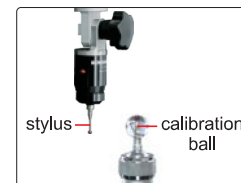
laser probe (optional)  
measuring accuracy is 5µm

### STANDARD DELIVERY

Main unit	1 pc
Software	1 pc
Computer	1 pc
24" display	1 pc
Len with coaxial light	1 pc
Controller	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Anti-dust cover	1 pc



desk (optional)



stylus — calibration ball

probe (optional), includes  
Ø2mm and Ø3mm styli,  
Ø25mm calibration ball,  
measuring accuracy is 10µm

### OPTIONAL ACCESSORY

0.5X auxiliary objective	code: <b>ISD-V-OB05X</b> , working distance: 175mm magnification: 16.5~104.3X (with manual zoom lens, on 24" monitor), 16.0~94.4X (with motorized zoom lens, on 24" monitor)
2X auxiliary objective	code: <b>ISD-V-OB2X</b> , working distance: 36mm magnification: 66~417.2X (with manual zoom lens, on 24" monitor), 63.8~377.4X (with motorized zoom lens, on 24" monitor)
Probe	code: <b>ISD-V-PROBE</b> , includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Laser probe	code: <b>ISD-V-LASER</b>
Office software	code: <b>7313-OFFICE</b>
Desk	code: <b>ISD-V-DESK</b>

### SOFTWARE (INCLUDED)

The screenshot shows the software interface with the following labeled components:

- real-time image**: The main viewing area showing a circular target with two black lobes.
- X/Y/Z axis**: A coordinate system indicator in the bottom right corner.
- light controller**: A control panel on the right side of the interface.
- magnification of selected points**: A zoomed-in view of the target's center points.
- measuring objects**: The two black lobes on the target.
- measuring results**: A table at the bottom left showing measurement data for various elements (ARC1, LNK1, LNK2, LNK3, LNK4).
- measuring tools**: A toolbar on the left side of the interface.
- movement controller**: A control panel on the right side of the interface.
- measuring graphic**: A diagram at the bottom right showing the measured geometry and dimensions (R1.4909, DR1.0017).