

2D+3D COMPOSITE CNC VISION MEASURING SYSTEMS



programmable segmented ring light (included)



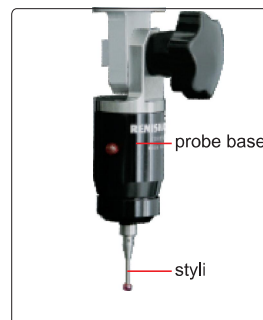
lens with coaxial light (included)



ISD-U322

- Motorized zoom objective
- Can import 3D drawings
- Vision measurement and probe measurement can be used in the same program
- Granite platform, column and stage, more stable
- Double close-loop motion control, with precise positioning performance in high-speed movement
- Panasonic servo control motor
- 40 independent surface light source, 200-step adjustment
- Servo motors for X, Y, Z axis

3D PROBE WITH 3D SOFTWARE FOR 3D MEASUREMENT



standard probe set (optional)



advanced probe set (optional)

SPECIFICATION

Code		ISD-U322	ISD-U432	ISD-U532	ISD-U542
Measuring range (X*Y*Z)		300×200×200mm	400×300×200mm	500×300×200mm	500×400×200mm
Stage size		600×390mm	700×490mm	800×490mm	800×590mm
Glass stage size		350×250mm	450×350mm	550×350mm	550×450mm
Resolution of X/Y/Z axis		0.5μm			
Accuracy (vision)		≤(2+L/200)μm (L is the measuring length in mm)			
Accuracy (probe)		≤(3+L/200)μm (L is the measuring length in mm)			
Repeatability		1.5μm			
Objective		0.7X~4.5X (zoom)			
Working distance		55mm			
View field (diagonal length)		1.3~7.9mm			
Magnification		36X~210X (on 21.5" monitor)			
Camera		1/2" color CCD, 2M pixel			
Illumination	surface	coaxial light, programmable segmented ring light adjustable LED light			
	contour				
Max. height of workpiece		195mm			
Max. weight of workpiece		20kg	30kg	35kg	35kg
Operation system		Windows 10/11			
Drive method		automatic			
Power supply		220V, 50/60Hz			
Dimension (L*W*H)		1400×900×1780mm	1600×1120×1780mm	1650×1120×1780mm	1650×1220×1780mm
Weight		440kg	560kg	580kg	620kg

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

0.5X auxiliary objective		code: ISD-U-OB05X , working distance: 175mm magnification: 18~105X (on 21.5" monitor)
2X auxiliary objective		code: ISD-U-OB2X , working distance: 36mm magnification: 72~420X (on 21.5" monitor)
Standard probe set [*] (RENISHAW)		code: ISD-U-MCP (must be installed in factory) includes MCP probe base, Ø2mm and Ø3mm styli, Ø25mm calibration ball
Advanced probe set [*] (RENISHAW)	probe base probe	code: ISD-U-BASE (must be installed in factory)
	styli	code: ISD-U-TP20 , includes Ø2mm styli
Probe replacement rack		code: ISD-U-MCR20
Office software		code: 7313-OFFICE

SOFTWARE (INCLUDED)

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

- measuring objects**: Points to the list of objects on the left sidebar.
- measuring results**: Points to the table displaying measurement data.
- real-time image**: Points to the main circular image area showing a crosshair pattern.
- measuring graphic**: Points to the diagram in the bottom-left corner showing a circle with lines and angles.
- light controller**: Points to the circular control knob on the right sidebar.
- operation tools**: Points to the toolbar at the bottom of the interface.
- movement controller**: Points to the directional pad and zoom controls at the bottom right.

measuring objects

measuring results

3D model

movement controller

operation tools