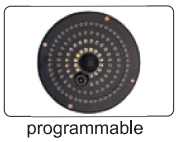
CNC VISION MEASURING SYSTEMS (STANDARD TYPE)

INSPECTION CERTIFICATE



programmable segmented ring light (included)

NAVIGATION CAMERA

ISD-R430

- Motorized zoom objective
- Granite body, high accuracy and stability
- Servo motors for X, Y, Z axis

SPECIFICATION

Code		ISD-R320	ISD-R430	ISD-R540
Measuring range (X×Y×Z)		300×200×200mm	400×300×200mm	500×400×200mm
Stage size		620×380mm	720×480mm	750×600mm
Glass stage size		360×260mm	460×360mm	550×450mm
Resolution of X/Y/Z axis		0.5μm		
Accuracy of X/Y axis		≤(2.5+L/200)μm (L is the measuring length in mm)		≤(2.8+L/200)μm (L is the measuring length in mm)
Repeatability		2μm		
Objective		0.7X~5.0X (zoom)		
Working distance		58mm		
View field (diagonal length)		1.57~7.49mm		
Magnification		35X~165X (on 23.8" monitor)		
Camera		1/1.2"color CCD, 2.3M pixel		
Max. height of workpiece		200mm		
Illumination	surface	coaxial light, programmable segmented ring light		
	contour	adjustable LED light		
Operation system		Windows 10/11		
Max. weight of workpiece		35kg		
Drive method		automatic		
Environmental requirement		temperature: 20°C±5°C, relative humidity: 20%~80%, vibration: <0.002g, less than 15Hz		
Power supply		190~230V, 50Hz, 1500W		
Dimension (L×W×H)		620×780×1750mm	740×930×1750mm	900×1300×1800mm
Net weight		350kg	400kg	550kg

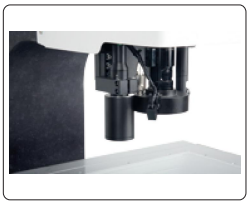
STANDARD DELIVERY

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

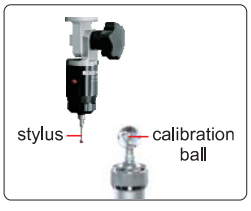
OPTIONAL ACCESSORY

0.5X auxiliary objective	code: **ISD-R-OB05X**, working distance: 116mm magnification: 17.5~82.5X (on 23.8" monitor)
2X auxiliary objective	code: **ISD-R-OB2X**, working distance: 29mm magnification: 70~330X (on 23.8 " monitor)
Spectral confocal sensor	code: **ISD-K-SCS** (must be installed in factory)
Laser probe	code: **ISD-K-LASER** (must be installed in factory)
Probe	code: **ISD-K-PROBE**, includes Ø1mm styli and Ø2mm styli, Ø20mm calibration ball
Line laser sensor	code: **ISD-K-LINE** (must be installed in factory)
Line profile software	code: **ISD-K-LP**
Gear software	code: **ISD-K-GEAR**
Thread software	code: **ISD-K-THREAD**
Stitching software	code: **ISD-K-STITCHING**
Office software	code: **7313-OFFICE**

laser proble (**optional**)
measuring accuracy is 4μm



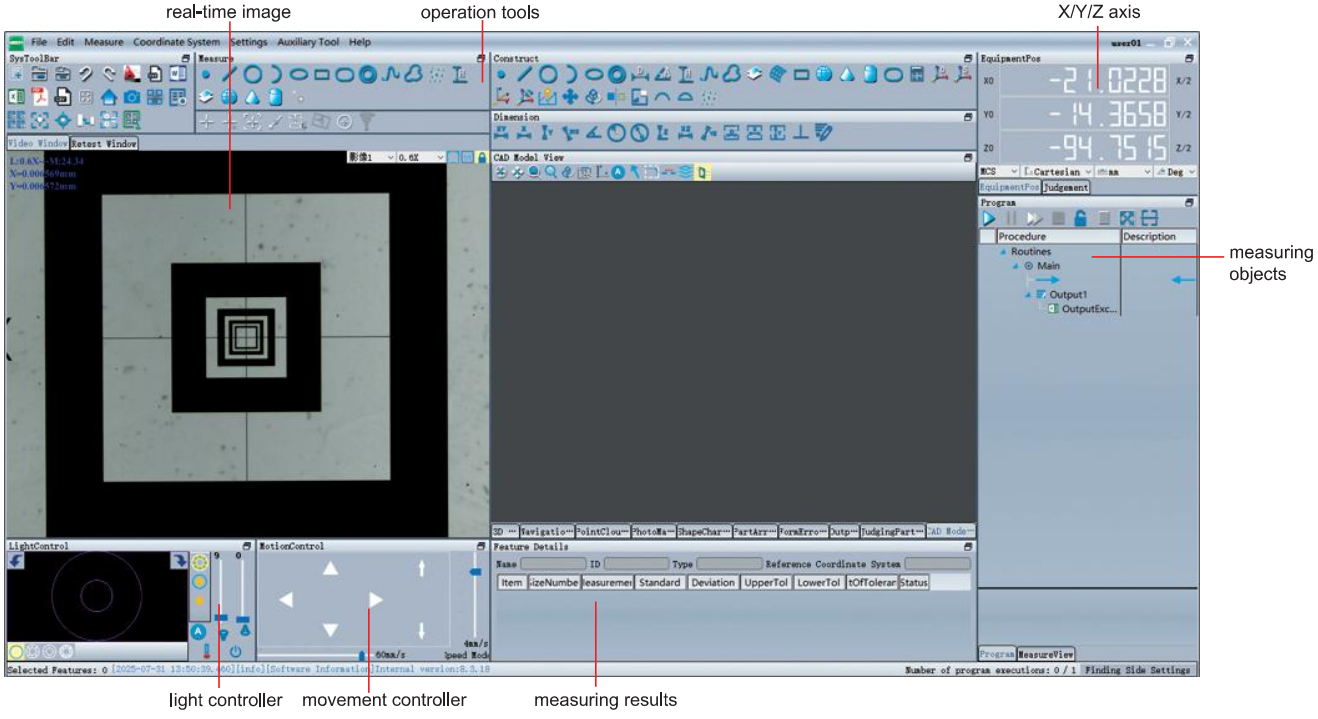
spectral confocal sensor (**optional**)
measuring accuracy is 5μm

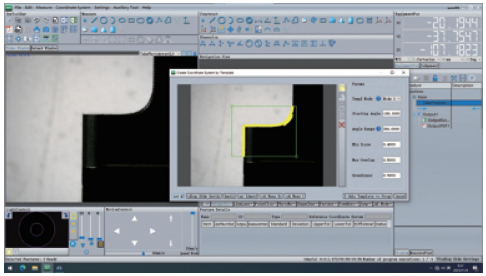


probe (**optional**), includes Ø1mm and Ø2mm styli, Ø20mm calibration ball, measuring accuracy is 5μm

line laser sensor (**optional**)
quick measurement of flatness, height, measuring accuracy is 10μm

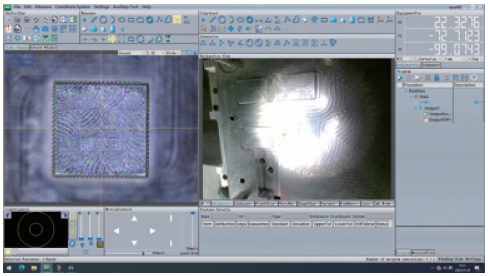
SOFTWARE (INCLUDED)





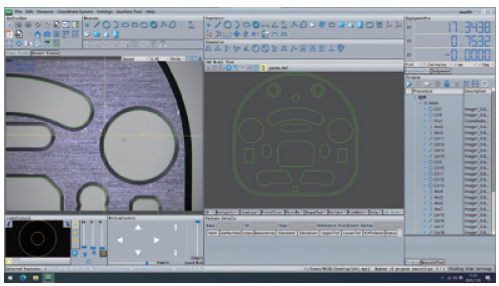
template assisted positioning function (included)

when the program runs repeatedly, as long as the positioning feature appears within the field of view, automatic measurement will be performed



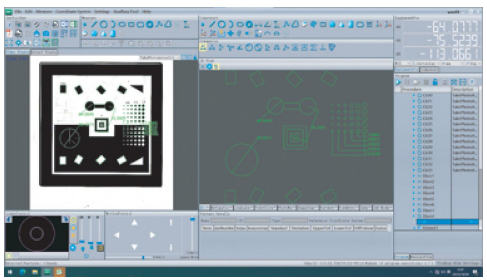
multi point autofocus function (included)

a single autofocus operation acquires height information of multi points, enabling efficient height measurement and flatness measurement



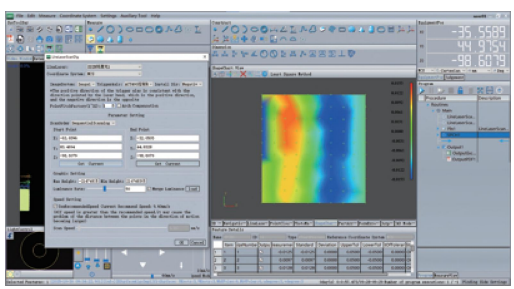
CAD import programming function (included)

import CAD drawings for quick programming



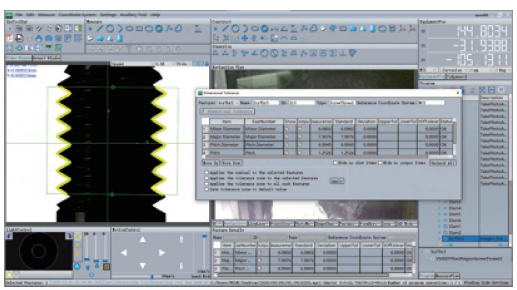
stitching software (**optional**)

stitching measurement for workpieces out of the field of view



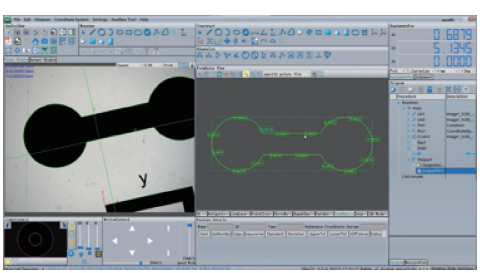
line laser sensor (**optional**)

high measurement efficiency, capturing all point data along a line segment in a single scan



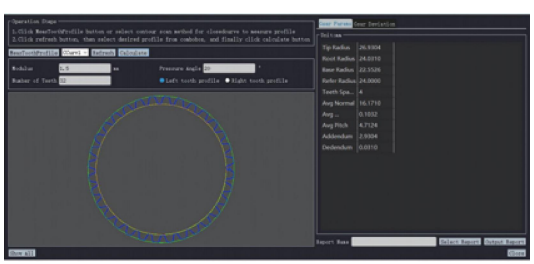
thread software (**optional**)

capture thread images, extract features through edge detection and contour fitting algorithms, and calculate parameters



line profile software (**optional**)

import the theoretical profile model and calculate the profile measurement results



gear software (**optional**)

non-contact measurement technology based on optical imaging for detecting critical dimensions of gears