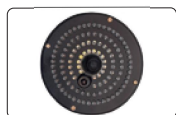


CNC VISION MEASURING SYSTEMS (STANDARD TYPE)



programmable
segmented ring
light (included)

NAVIGATION
CAMERA



ISD-R430-U

desk is included

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

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	24.41×14.96"	28.34×18.89"	29.53×23.62"
Glass stage size	14.17×10.23"	18.11×14.17"	21.65×17.72"
Resolution of X/Y/Z axis	19.68μin		
Accuracy of X/Y axis	≤(98.4+5L)μin (L is the measuring length in inch)		≤(110.2+5L)μin (L is the measuring length in inch)
Repeatability	78.74μin		
Objective	0.7X~5.0X (zoom)		
Working distance	2.28"		
View field (diagonal length)	.06~.29"		
Magnification	35X~165X (on 23.8" monitor)		
Camera	1/1.2"color CCD, 2.3M pixel		
Max. height of workpiece	7.87"		
Illumination	surface	coaxial light, programmable segmented ring light	
	contour	adjustable LED light	
Operation system	Windows 10/11		
Max. weight of workpiece	77lb		
Drive method	automatic		
Environmental requirement	temperature: 68°F±9°F, relative humidity: 20%~80%, vibration: <.00007oz, less than 15Hz		
Power supply	110V, 60Hz, 1500W		
Dimension (L×W×H)	24.41×30.71×68.90"	29.13×36.61×68.90"	35.43×51.18×70.87"
Net weight	771lb	881lb	1212lb

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

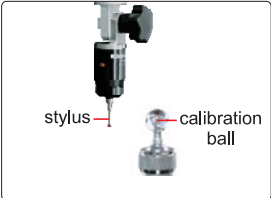
0.5X auxiliary objective	part No. ISD-R-OB05X , working distance: 4.57" magnification: 17.5~82.5X (on 23.8" monitor)
2X auxiliary objective	part No. ISD-R-OB2X , working distance: 1.14" magnification: 70~330X (on 23.8 " monitor)
Spectral confocal sensor	part No. ISD-K-SCS (must be installed in factory)
Laser probe	part No. ISD-K-LASER (must be installed in factory)
Probe	part No. ISD-K-PROBE , includes .039" DIA styli and .079" DIA styli, .787" DIA calibration ball
Line laser sensor	part No. ISD-K-LINE (must be installed in factory)
Line profile software	part No. ISD-K-LP
Gear software	part No. ISD-K-GEAR
Thread software	part No. ISD-K-THREAD
Stitching software	part No. ISD-K-STITCHING
Office software	part No. 7313-OFFICE



laser probe (optional)
measuring accuracy is .00016"



spectral confocal sensor (optional)
measuring accuracy is .0002"



probe (optional), includes
.039" DIA/Ø1mm and
.079" DIA/Ø2mm styli,
.787" DIA/Ø20mm calibration
ball, measuring accuracy
is .0002"



line laser sensor (optional)
quick measurement of flatness,
height, measuring accuracy is .0004"

SOFTWARE (INCLUDED)

real-time image

operation tools

X/Y/Z axis

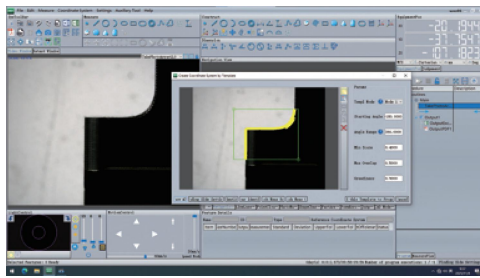
measuring objects

measuring results

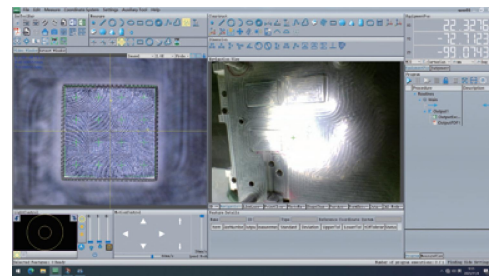
light controller

movement controller

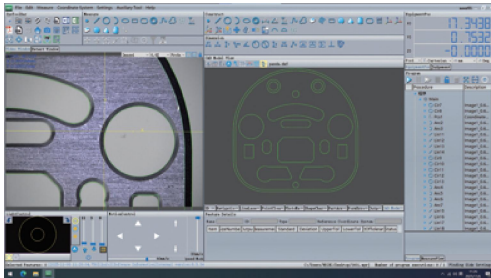
light controller movement controller measuring results



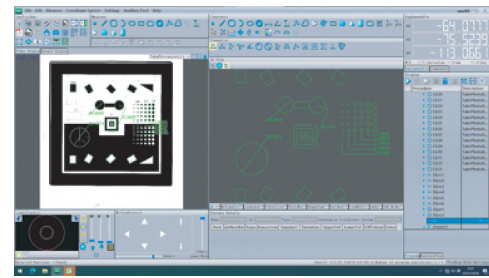
template assisted positioning function (included)
when the program runs repeatedly, as long as the positioning feature appears within the field of view, automatic measurement will be performed



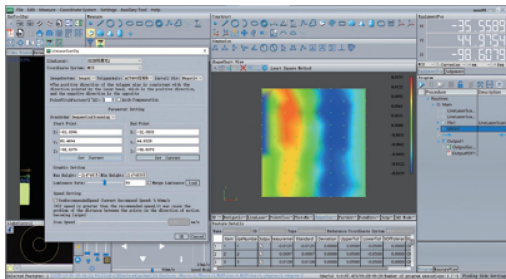
multi point autofocus function (included)
a single autofocus operation acquires height information of multi points, enabling efficient height measurement and flatness measurement



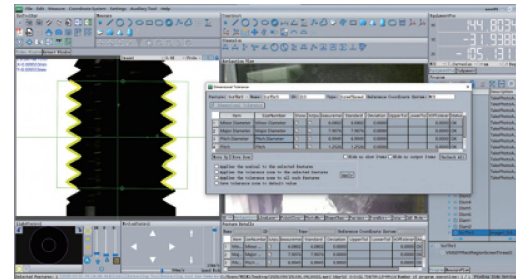
CAD import programming function (included)
import CAD drawings for quick programming



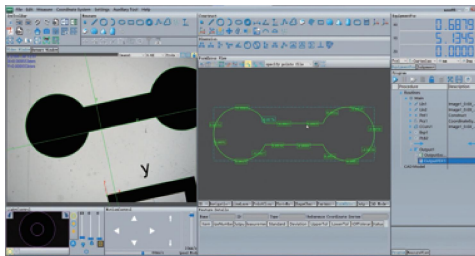
stitching software (optional)
stitching measurement for workpieces out of the field of view



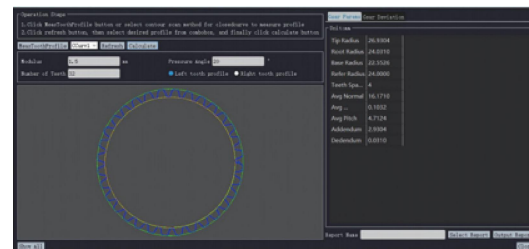
line laser sensor (optional)
high measurement efficiency, capturing all point data along a line segment in a single scan



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