

CNC VISION MEASURING SYSTEMS (ADVANCED TYPE)

**INSPECTION
CERTIFICATE**



programmable
segmented ring
light (included)

**HIGH-RESOLUTION
AUTO ZOOM LENS**

**NAVIGATION
CAMERA**



ISD-Q1210

- Motorized zoom objective
- Granite body, high accuracy and stability
- Panasonic servo control motor, with precise positioning performance in high-speed movement
- RSF brand linear scales

SPECIFICATION

Code	ISD-Q542	ISD-Q652	ISD-Q762
Measuring range (X×Y×Z)	400×500×200mm	500×600×200mm	700×600×200mm
Glass stage size	560×630mm	660×750mm	760×870mm
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)		
Repeatability	2μm		
Objective	0.6X~8.0X (13.3:1 continuous zoom ratio)		
Working distance	83mm		
View field (diagonal length)	0.81~10.72mm		
Magnification	27X~356X (on 23.8" monitor)		
Camera	2/3"color CCD, 5M pixel		
Max. height of workpiece	200mm		
Illumination	surface	coaxial light, three-ring eight-zone adjustable 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, 1650W		190~230V, 50Hz, 2250W
Dimension (L×W×H)	1400×1010×1780mm	1500×1110×1780mm	1600×1210×1780mm
Net weight	825kg	950kg	1200kg

SPECIFICATION

Code	ISD-Q1210	ISD-Q1612	ISD-Q2015
Measuring range (X×Y×Z)	1000×1200×200mm	1200×1600×200mm	1500×2000×200mm
Glass stage size	1140×1370mm	1380×1790mm	1700×2260mm
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)		
Repeatability	2μm		
Objective	0.6X~8.0X (13.3:1 continuous zoom ratio)		
Working distance	83mm		
View field (diagonal length)	0.81~10.72mm		
Magnification	27X~356X (on 23.8" monitor)		
Camera	2/3" color CCD, 5M pixel		
Max. height of workpiece	200mm		
Illumination	surface	coaxial light, three-ring eight-zone adjustable 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, 2750W		
Dimension (L×W×H)	2120×1590×1780mm	2530×1830×1780mm	3100×2120×1780mm
Net weight	2300kg	3300kg	4900kg

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

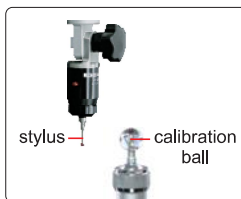
0.5X auxiliary objective	code: ISD-K-OB05X , working distance: 175mm magnification: 13.5~178X (on 23.8" monitor)
2X auxiliary objective	code: ISD-K-OB2X , working distance: 36mm magnification: 54~712X (on 23.8" monitor)
Spectral confocal sensor	code: ISD-K-SCS (must be installed in factory)
Laser probe	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 probe (optional)
measuring accuracy is 4μm



spectral confocal sensor (optional)
measuring accuracy is 4μm

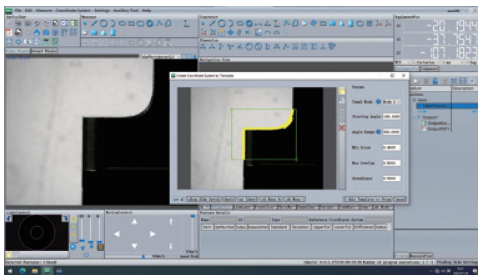
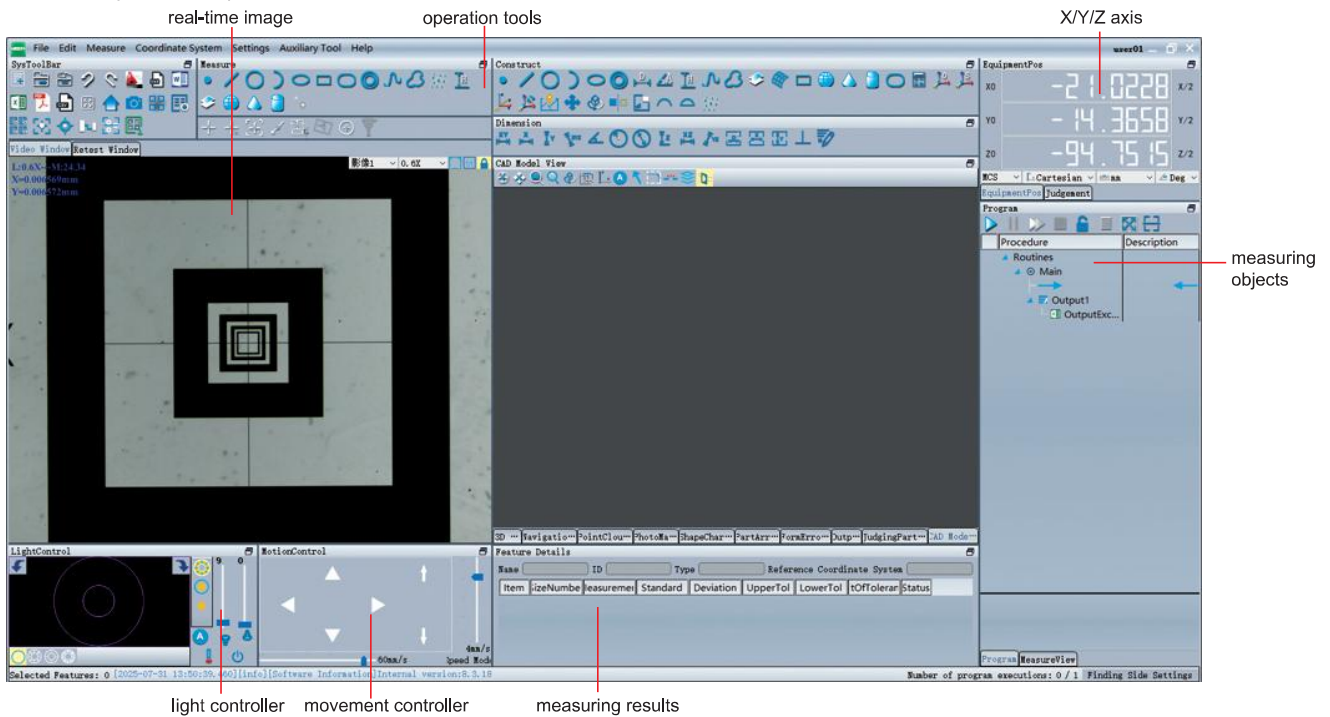


probe (optional), includes
Ø1mm and Ø2mm styli,
Ø20mm calibration ball,
measuring accuracy is 5μm

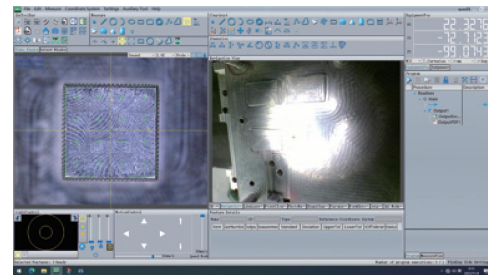


line laser sensor (optional)
quick measurement of flatness,
height, measuring accuracy is 10μm

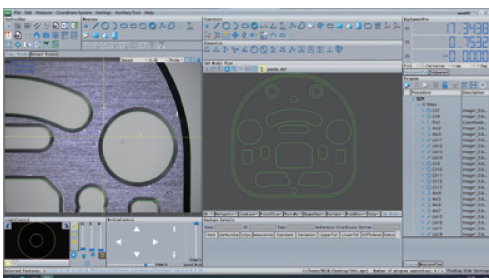
SOFTWARE (INCLUDED)



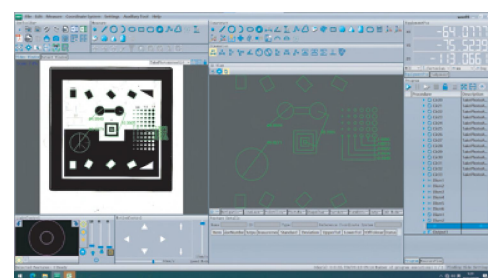
template assisted positioning function (included)
when the program runs repeatedly, as long as the positioning feature appears within the field of view, automatic measurement will be performed



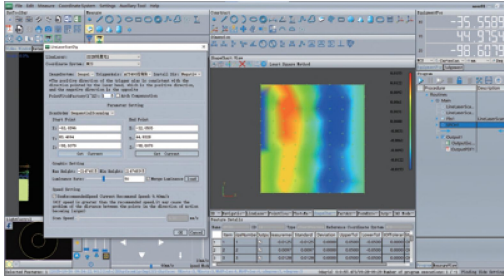
multi point autofocus function (included)
a single autofocus operation acquires height information of multi points, enabling efficient height measurement and flatness measurement



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

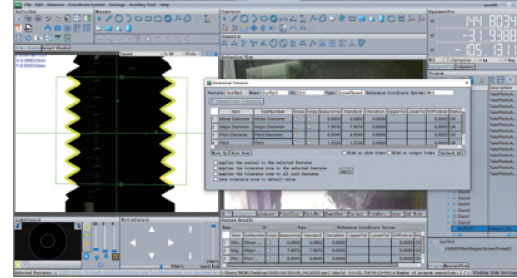


stitching software (optional)
stitching measurement for workpieces out of the field of view



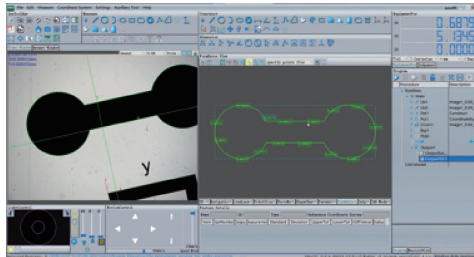
line laser sensor (optional)

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



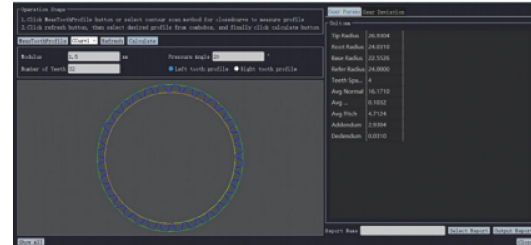
thread software (optional)

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