

# **CNC VISION MEASURING SYSTEMS (ADVANCED TYPE)**







ISD-K432

- 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-K322	ISD-K432	ISD-K542
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		≤(2.0+L/200)µm (L is the measuring	ng length in mm)	≤(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		1/1.2"color CCD, 2.3M pixel		
Max. height of workpiece		200mm		
IIIumination	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, 1500W		
Dimension (L×W×H)		620×780×1750mm	740×930×1750mm	900×1300×1800mm
Net weight		350kg	400kg	550kg

#### STANDARD DELIVERY

STANDARD DELIVERY		
Main unit	1pc	
Dong <b>l</b> e	1pc	
Software	1pc	
Lens with coaxial light	1pc	
Controller	1pc	
Computer	1pc	
Calibration glass chart	1pc	
Desk	1pc	
Clay	1pc	
Anti-dust cover	1pc	

### OPTIONAL ACCESSORY

OF HONAL 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: <b>ISD-K-PROBE</b> , 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

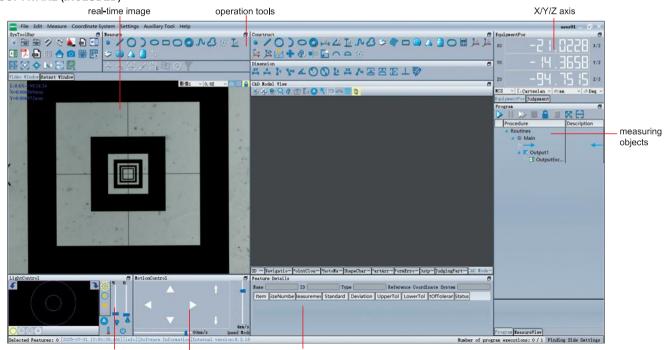


probe (optional), includes Ø1mm and Ø2mm styli, Ø20mm calibration ball, measuring accuracy is 5µm



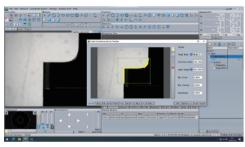
line laser sensor (**optional**) quick measurement of flatness, height, measuring accuracy is 10µm

## SOFTWARE (INCLUDED)

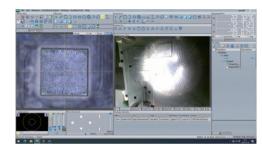


light controller movement controller

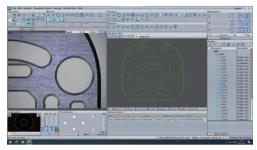
measuring results



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



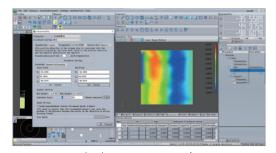
multi point autofocus function (included)
a single autofocus operation acquires height information of multi points,
enabling efficient height measurement and flatness measurement



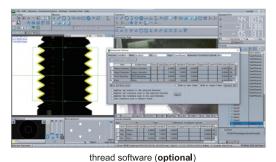
CAD import programming function (included) import CAD drawings for quick programming



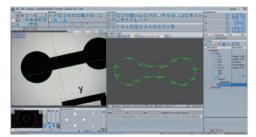
stitching software (**optional**) stitching measurement for workpieces out of the field of view



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



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