

CNC VISION MEASURING SYSTEMS (ADVANCED TYPE)

**INSPECTION
CERTIFICATE**



programmable
segmented ring
light (included)

**HIGH-RESOLUTION
AUTO ZOOM LENS**

**NAVIGATION
CAMERA**



ISD-Q1210-U

- 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

Part.No		ISD-Q542-U	ISD-Q652-U	ISD-Q762-U
Measuring range (X×Y×Z)		15.75×19.68×7.87"	19.68×23.62×7.87"	23.62×27.56×7.87"
Glass stage size		22.05×24.80"	25.98×29.53"	29.92×34.25"
Resolution of X/Y/Z axis		19.68μin		
Accuracy of X/Y axis		≤(98.4+5L)μin (L is the measuring length in inch)		
Repeatability		78.74μin		
Objective		0.6X~8.0X (13.3: 1 continuous zoom ratio)		
Working distance		3.26"		
View field (diagonal length)		.03~.42"		
Magnification		27X~356X (on 23.8" monitor)		
Camera		2/3"color CCD, 5M pixel		
Max. height of workpiece		5.31"		
Illumination	surface	coaxial light, three-ring eight-zone adjustable ring light adjustable LED light		
	contour			
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, 1650W		110V, 60Hz, 2250W
Dimension (L×W×H)		55.12×39.76×70.08"	59.05×43.70×70.08"	62.99×47.64×70.08"
Weight		1818.8lb	2094.4lb	2645.5lb

SPECIFICATION

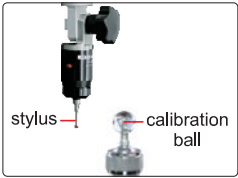
Code		ISD-Q1210-U	ISD-Q1612-U	ISD-Q2015-U
Measuring range (X×Y×Z)		39.37×47.24×7.87"	47.24×62.99×7.87"	59.05×78.74×7.87"
Glass stage size		44.88×53.94"	54.33×70.47"	66.93×88.98"
Resolution of X/Y/Z axis		19.68μin		
Accuracy of X/Y axis		≤(98.4+5L)μin (L is the measuring length in inch)		
Repeatability		78.74μin		
Objective		0.6X~8.0X (13.3: 1 continuous zoom ratio)		
Working distance		3.26"		
View field (diagonal length)		.03~.42"		
Magnification		27X~356X (on 23.8" monitor)		
Camera		2/3"color CCD, 5M pixel		
Max. height of workpiece		5.31"		
Illumination	surface	coaxial light, three-ring eight-zone adjustable 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, 2750W		
Dimension (L×W×H)		83.46×62.60×70.08	99.60×72.05×70.08"	122.05×83.46×70.08"
Weight		5070.6lb	7275.2lb	10802.7lb

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: 6.89" magnification: 13.5~178X (on 23.8" monitor)
2X auxiliary objective	code: ISD-K-OB2X , working distance: 1.42" 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 .039" DIA styli and .079" DIA styli, .787" DIA calibration ball
Office software	code: 7313-OFFICE



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



laser probe(optional) measuring accuracy is .00016"



spectral confocal sensor (optional) measuring accuracy is .00016"

SOFTWARE (INCLUDED)

real-time image operation tools X/Y/Z axis

The screenshot displays a software interface for measuring objects. The interface is divided into several sections:

- real-time image:** A large central window showing a grayscale image of a square object with concentric squares inside.
- operation tools:** A toolbar at the top containing various icons for file operations, measurement, and navigation.
- X/Y/Z axis:** A panel on the right showing the current position of the equipment in Cartesian coordinates (X, Y, Z).
- measuring objects:** A panel on the right showing a list of measured objects with columns for Name, ID, Type, Reference Coordinate System, Item, Size Number, Measurement, Standard, Deviation, Upper Tolerance, Lower Tolerance, and Status.
- light controller:** A panel at the bottom left showing a circular diagram with a central dot and surrounding segments, used for controlling the light source.
- movement controller:** A panel at the bottom center showing directional arrows (up, down, left, right) and a speed slider, used for controlling the movement of the equipment.
- measuring results:** A panel at the bottom right showing the results of the measurement, including the number of program executions (0/1) and the current side settings.

EquipmentPos: X0: -21.0228 X/2, Y0: -14.3658 Y/2, Z0: -94.7515 Z/2

Selected Features: 0 [2025-07-31 13:50:59.460][info][Software Information][Internal version:8.3.18]

Number of program executions: 0 / 1 Finding Side Settings