

# CNC VISION MEASURING SYSTEMS (BASIC TYPE)



- Automatic edge-detection, focus, measuring, contour scanning, calibration, etc.
- Double close-loop motion control, with precise positioning performance in high-speed movement
- Granite body, more stable
- Servo motors for X, Y, Z axis
- SPC function for large quantity measurement

## SPECIFICATION

|                              | ISD-R320                                       | ISD-R430                          | ISD-R540        |
|------------------------------|--|-----------------------------------|-----------------|
| Measuring range (X×Y×Z)      | 300×200×150mm                                  | 400×300×150mm                     | 500×400×150mm   |
| Stage size                   | 500×330mm                                      | 606×466mm                         | 706×566mm       |
| Glass stage size             | 350×280mm                                      | 450×350mm                         | 550×450mm       |
| Resolution of X/Y/Z axis     | 0.5μm  |                                   |                 |
| Accuracy of X/Y axis         | ≤(3+L/200)μm (L is the measuring length in mm) |                                   |                 |
| Repeatability of X/Y axis    | 2μm  |                                   |                 |
| Objective                    | 0.7X~4.5X (zoom)                               |                                   |                 |
| Working distance             | 55mm   |                                   |                 |
| View field (diagonal length) | 1.3~7.6mm                                      |                                   |                 |
| Magnification                | 29X~143X (on 21.5" monitor)                    |                                   |                 |
| Camera                       | 1/3" color CCD, 0.3M pixel                     |                                   |                 |
| Illumination                 | contour  | programmable segmented ring light |                 |
|                              | surface  | adjustable LED light              |                 |
| Max. height of workpiece     | 150mm  |                                   |                 |
| Max. weight of workpiece     | 20kg   |                                   |                 |
| Operation system             | Windows 10/11                                  |                                   |                 |
| Drive method                 | automatic                                      |                                   |                 |
| Power supply                 | 220V, 50/60Hz                                  |                                   |                 |
| Dimension (L×W×H)            | 720×770×1780mm                                 | 700×1000×1780mm                   | 800×1040×1780mm |
| Weight                       | 270kg  | 325kg                             | 500kg           |

## STANDARD DELIVERY

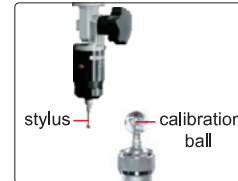
|                         |      |
|-------------------------|------|
| Main unit               | 1 pc |
| Software                | 1 pc |
| Dongle                  | 1 pc |
| Controller              | 1 pc |
| Computer                | 1 pc |
| Calibration glass chart | 1 pc |
| Clay                    | 1 pc |
| Anti-dust cover         | 1 pc |



programmable segmented ring light (included)

## OPTIONAL ACCESSORY

|   |  |
|---|--|
| 0.5X auxiliary objective                        | code: <b>ISD-Y-OB05X</b><br>working distance: 175mm<br>magnification: 14.5~71.5X<br>(on 21.5" monitor) |
| 2X auxiliary objective                          | code: <b>ISD-Y-OB2X</b><br>working distance: 36mm<br>magnification: 58~286X<br>(on 21.5" monitor)      |
| Probe   | code: <b>ISD-Y-PROBE</b><br>includes Ø2mm and Ø3mm styli,<br>Ø25mm calibration ball                    |
| Vision measuring system with coaxial light lens | code: <b>ISD-R320L,</b><br><b>ISD-R430L,</b><br><b>ISD-R530L</b>                                       |
| Office software                                 | code: <b>7313-OFFICE</b>   |



probe (**optional**), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm



lens with coaxial light (**optional**)

## SOFTWARE (INCLUDED)

The screenshot shows the software interface with the following components labeled:

- real-time image:** The top-left window showing a live camera feed of a circular target with a crosshair.
- light controller:** A central control panel with various icons for adjusting the lighting.
- measuring graphic:** The top-right window showing a 2D CAD model of the target with measurement points and dimensions.
- X/Y/Z axis:** A coordinate system indicator on the left side of the software interface.
- measuring results:** A data table at the bottom left showing measurement parameters such as Positional, LMC, MMC, and Circularity.
- measuring tools:** A toolbar at the bottom center containing various measurement and navigation tools.
- measuring objects:** A window at the bottom right showing a 3D model of the measured object.