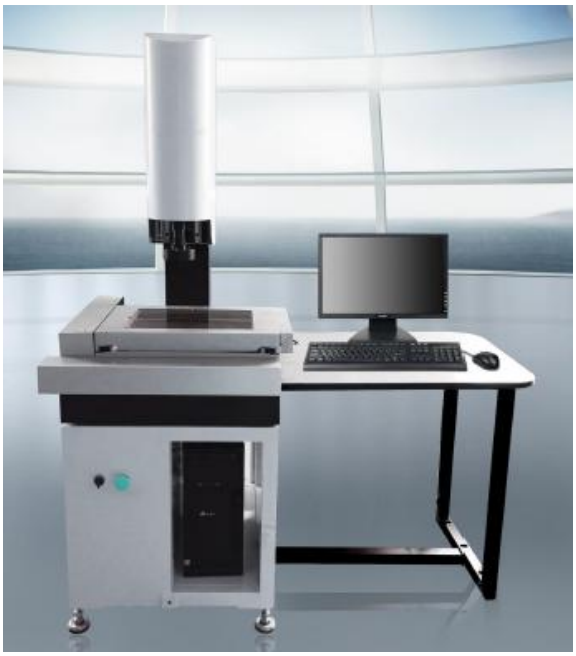
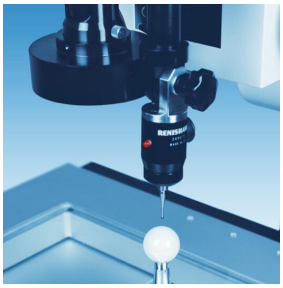
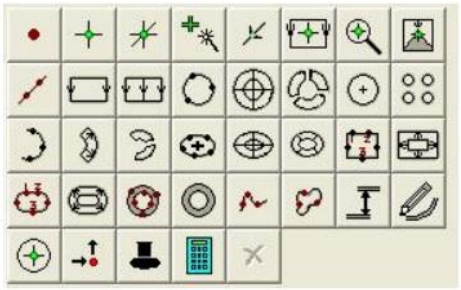
EI-VM-CNC Series Automatic Video Measuring Machine



Usages:

It is widely and suitably used in measurement services at various levels or workshops' inspection stations in various industries of electronics, instruments and meters, cutting-tools and gripping devices, precision machine elements, precision hardware pieces, electronic components, plastic and rubber finished products, semiconductor components, punching pieces, socket connectors, die equipment, automobiles, machining operation, military industry, aerospace, etc. and colleges and universities, scientific research institutes, etc.





Features:

1. Precision transmission equipment design to achieve rapid movement.
2. The column and the base with high grade granite structure, high precision and reliable stability.
3. It is equipped with multifunction measurement software to meet the different measure requirement.
4. Can import the DXF file for rapid measuring.
5. The measurement data can be imported into Word, Excel, Auto CAD.
6. Report output function, the output test results easily illustrated.
7. Three axis high precision linear slide rail and high precision ball screw, ensure the machine precision and working life.
8. The high definition lens and high resolution CCD, be sure high definition measurement products.
9. The advanced navigation positioning lens, easy programming and measurement procedures.

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ECO INSTRUMENT (NS0081046-M)

Specification:

Type	Automatic			Manual	
Model	EI-VM322CNC	EI-VM432CNC	EI-VM542CNC	EI-VM322M	EI-VM432M
XYZ Range	300 x 200 x 200mm	400 x 300 x 180mm	500 x 400 x 180mm	300 x 200 x 200mm	400 x 300 x 200mm
Load Weight	50kg				
XY Accuracy	3.0+L/200μm				
Z Accuracy	5.0+L/100μm				
XY Move Speed	0 ~ 400mm/s			N/A	
Z Move Speed	0 ~ 100m/s				
Repeatability	0.003mm				
Resolution	0.001mm				
Grating Ruler	0.0005mm				
Light System	Surface light: 4 ring 8 section led light Profile light: led cool light				
CCD	2.0M HK CCD			1/3 inch 760 color high-definition camera	
Lens	Navigation 0.7 ~ 4.5X step lens				
Magnification	Optic: 0.7～4.5X Image: 34 ~ 220X			Optic: 0.7～4.5X Image: 24 ~ 156X	
Software	Professional CNC / measuring software				
Motor	Servo motor			N/A	
Computer	Win10 4GB RAM 21.5” monitor			Win 11 8GB RAM 22” monitor	
Power	220V/50Hz			240V/50Hz	
Working Temperature	18°C ~ 22°C			24 ± 3°C	
Machine Size	1450 x 1050 x 1700mm	1600 x 1200 x 1700mm	1800 x 1400 x 1700mm	700 x 650 x 920 mm	980 x 750 x 950mm
Machine Weight	300kg	320kg	350kg	220kg	300kg

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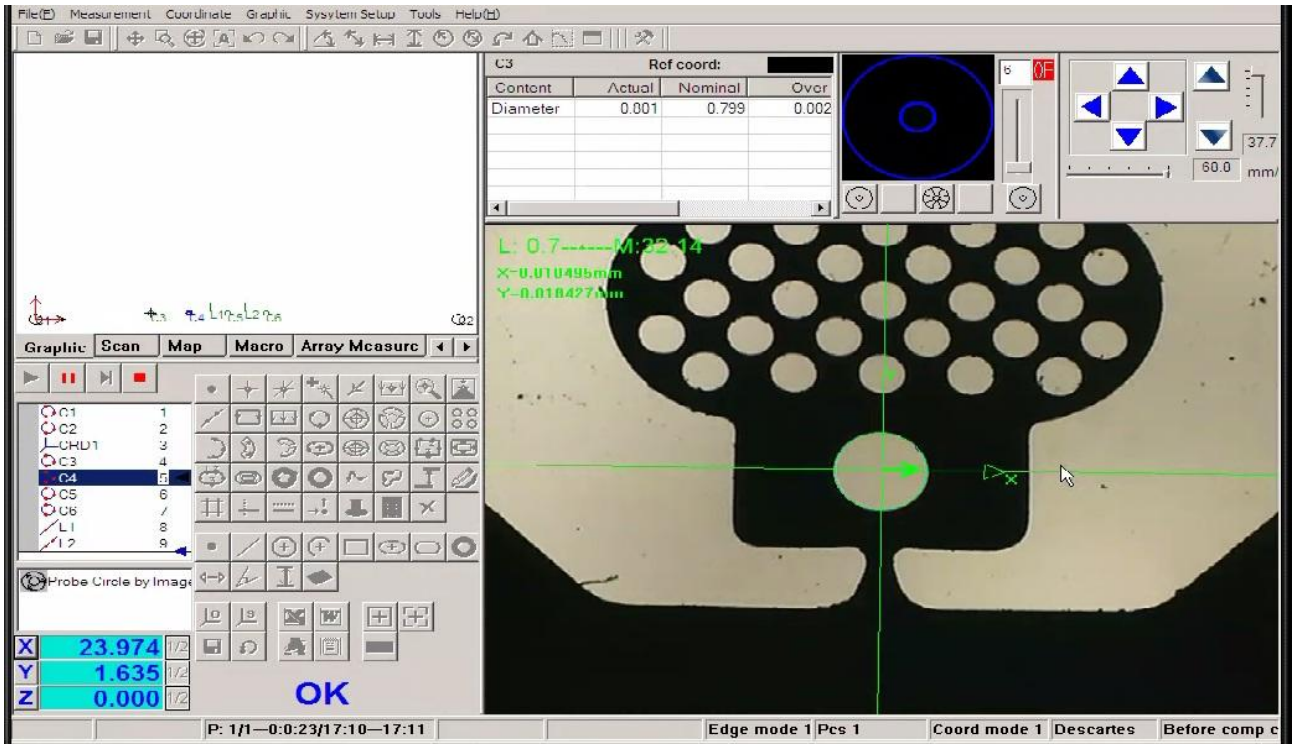
Software Interface:



Measuring Software:

1. The international advanced level measurement package YR-CNC combines modern coordinate measurement technology, modern CAD industrial design technology and modern industrial processing technology of the geometry dimension and tolerance evaluation test. Whatever for simple box components or complex surface work pieces, YR-CNC software can provide the perfect measurement solution. It has the advantages of high calculation speed, advanced mathematical model, complete functions, intuitive operation, and good stability.
2. With three axis motion optimization control and system mechanical geometric error compensation function.
3. System software control optimum setting and self-check function.
4. Perfect direct graphic interface for different software application level of the operator provides convenient executive function.
5. Has the program function, suitable for mass measurement detection.
6. Coordinate system management function: establishment of the coordinate system, conversion, access functions.
7. Automatic edge finder function: to set boundaries automatic capturing edge finder, more measuring line, arc, circle and reducing measuring visual error.
8. Box chooses range detection: measuring many graphs at a time under the box choose range can reduce the workload greatly.
9. Screening flash automatic edge finder measure: according to blind holes, corner, irregular

graphics, flash on edge processing products, make its edge take some more hasten is perfect.

10. DXF Comparison Measurement: Compare the design drawing with the measured piece.
11. Geometrical element evaluation:
    a. Basic geometrical element measurement and evaluation: point, line , plane, oval, cylinder, cone
    b. Basic geometrical element calculation: fellowship, distance relationship, symmetry, vertical and angle.
12. Evaluation of shape error: the straightness, flatness, roundness, cylindrical degrees.
13. Evaluation of position error: vertical degree, slope, the coaxial tolerance (concentricity), symmetrical degrees, position degrees.
14. Unity of work coordinate system & machine coordinate system.
15. Has the parts model automatic general taken geometrical element characteristic function and automatic generation of test procedures.
16. Reverse engineering measurement.
17. Report Output: measuring results can be transferred to Excel File directly.
18. SPC Function: It can calculate CA, CP, CPK, DRL, DRR, DR, MAX, MIN, AVG, RANGE, STD, and can draw X-R graph, broken line graph, bar graph etc.