QS METROLOGY PVT LTD.

Solution provider in Dimensional Metrology and Qualitative Metallurgy since 2009

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PRODUCT RANGE

Quantitative & Qualitative Metallurgy

- Metallurgical Image Analysis System (Based on the tech-transfer from BARC)
- Metallurgical Microscopes (Zeiss)
- Handheld XRF Analysers (Thermofisher Scientific, USA)
- Bench top Spectrometer (Thermofisher Scientific, Switzerland)

Dimensional Metrology

- Weld Penetration Analysis System (QS Metrology)
- Surface Roughness Testers (Zeiss)
- Contour Testing Machines (Zeiss)
- Roundness Testing Machines (Zeiss)
- 3 D coordinate measuring Machine (Zeiss)
- Video Measuring Machines (QS Metrology)
- Stereo Microscopes (QS Metrology)
- Coating Thickness Gages (Phynix)

Machine Vision Solutions

- Automation in Component Inspection and Measurement
- In-line inspection on Production line

VISION MEASUREMENT MACHINE

RANGE

Vertical Light Path

Vertical Light Path with Touch Probe

Horizontal Light Path

VISION MEASUREMENT MACHINE SPECIALTIES

Aluminum alloy body

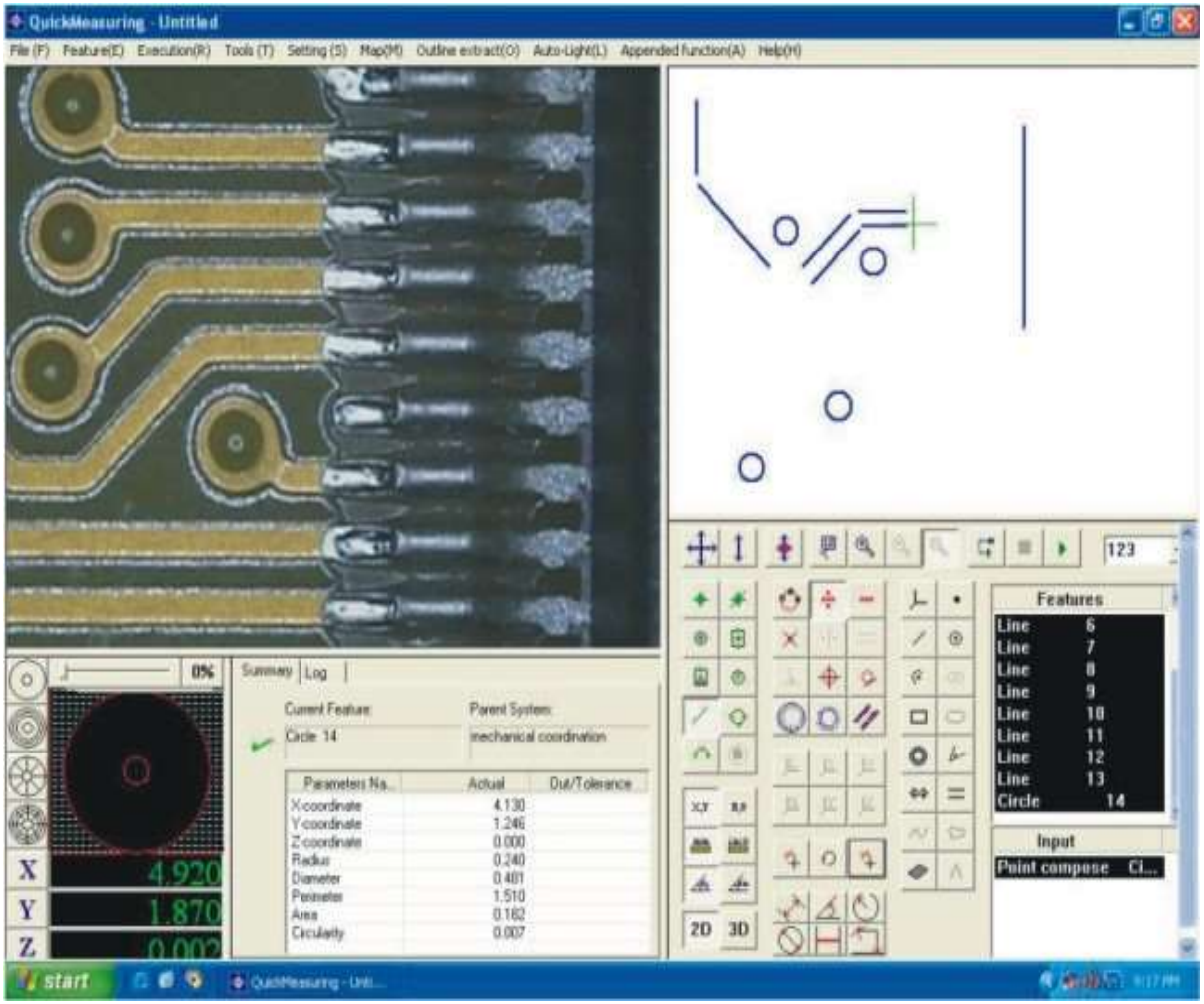
LED Contour light source with variable intensity

LED ring light for surface illumination with variable intensity

Electroless Nickle Plated Cross Table

CE Certified electrical system

VERTICAL LIGHT PATH
MODEL OPTI-COM VMM2d/3d
VISION MEASUREMENT MACHINE



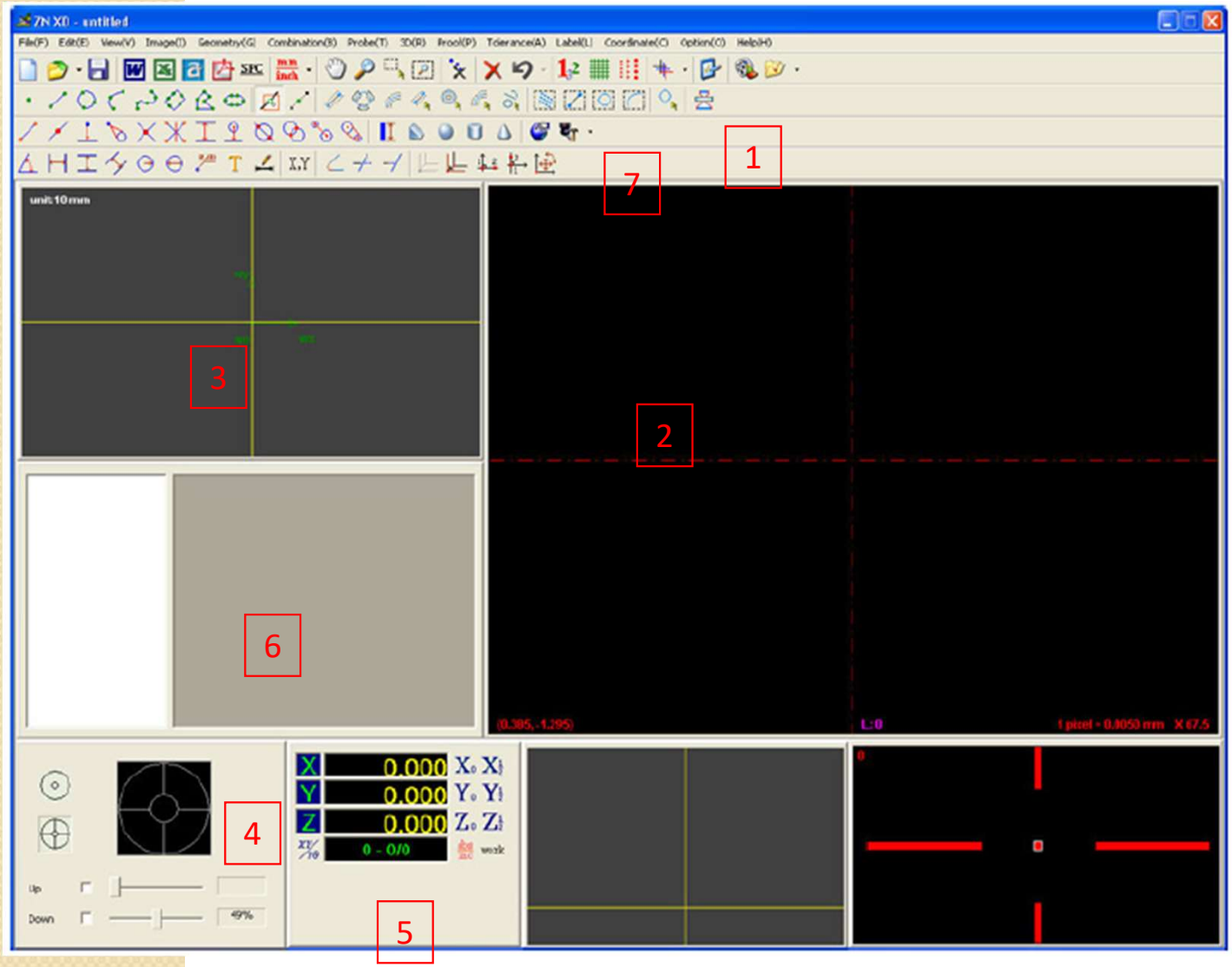
OPTI-COM MODEL VMM 2d / 3d and H2d Manual Version

SPECIFICATION	VMM2d/3d		VMM H2d		
Model TYPE					Note
TABLE SIZE	500x300	600X400	400x200	500X200	Custom made cross table also provided
GUIDE WAYS ON X AND Y AXES	DOVETAIL TYPE GUIDED BY NEEDLE ROLLER FROM INA GERMANY				
X AXIS	300	300	220	270	
Y AXIS	200	200	180	180	
Z AXIS	200	150	100	100	Scale on Z axis standard on 3d Models and optional on 2d Models
RESOLUTION IN MICRON	0.001	0.001	0.001	0.001	0.0005mm and 0.0001mm scales optional
MEASURING MODE	**FULLY MANUAL**				
PROBE	3d Models will have Renishaw Model MCP Touch Trigger Probe				
ACCURACY	4+L/100				
REPEATABLITY IN LINEAR	+/- 4 MICRON				
LOAD CARRYING CAPACITY	18KGS				
MACHINE STRUCTURE	ALUMINIUM ALLOY BODY				
IMAGE SYSTEM	1/3” HIGH RESOLUTION CCD CAMERA WITH IN BUILT BLUR FILTER LENS INTERFACED THOUGH QUICK RESPONSE IMAGE ENHANCING CARD ON PC FOR				
LENS	TELE-CENTRIC PARA FOCAL LENS WITH PLUNGER TYPE INDEX FOR VARIABLE MAGNIFICATION SETTING FROM 18X TO 125X (AUTO MAGNIFICATION SETTING IN CNC VERSION)				

OPTI-MEASURE SOFTWARE

Application:

Video measuring machine



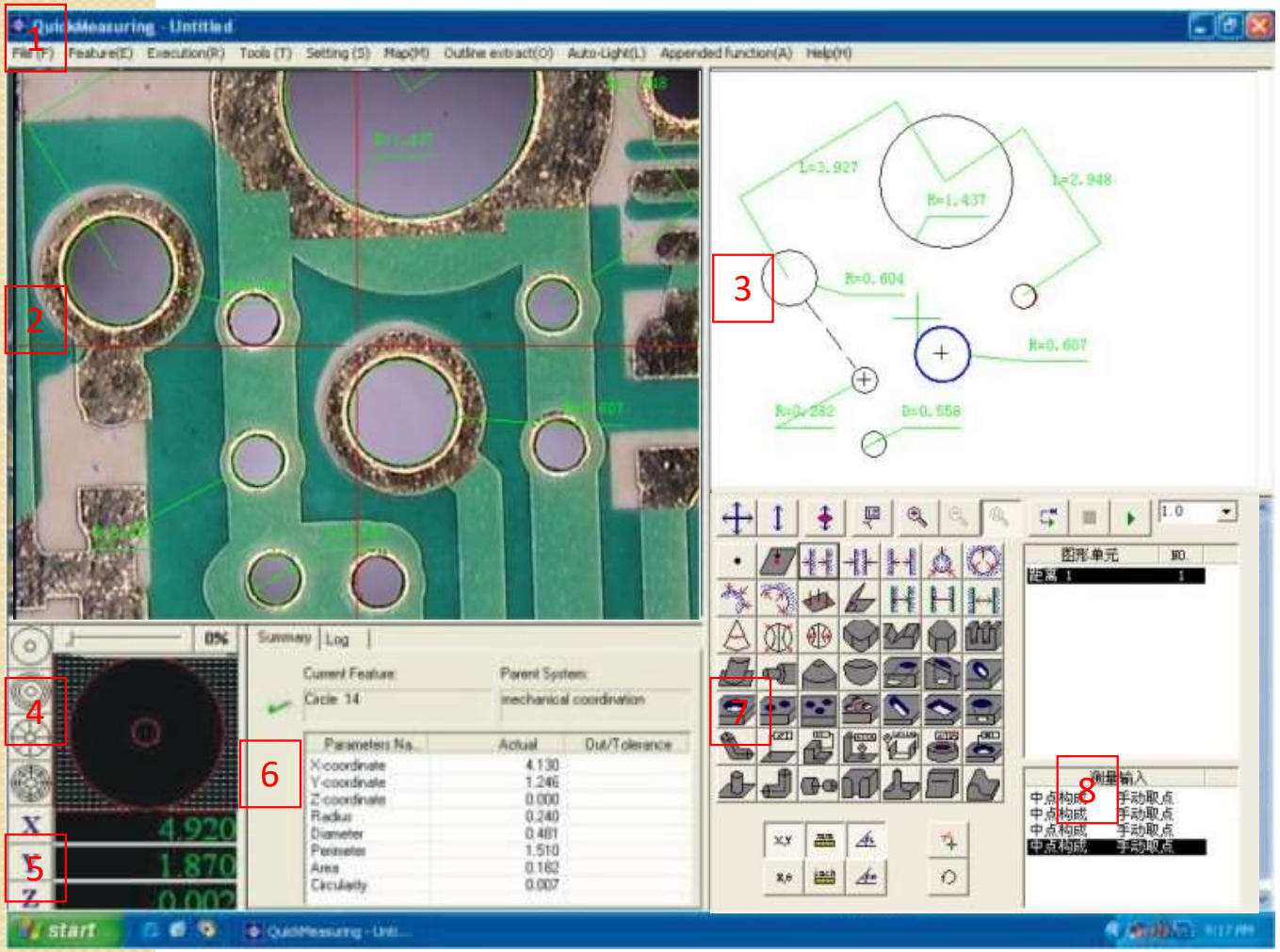
Introduction:

1. Toolbar
2. Video display window
3. Measuring graphic window
4. Illuminator control column
5. Coordinate display column
6. Measured result display column
7. Measuring tool window

OPTI MEASURE 2D/3D SOFTWARE

Application:

Video measuring machine, Measuring microscope and other Vision measuring system, etc.

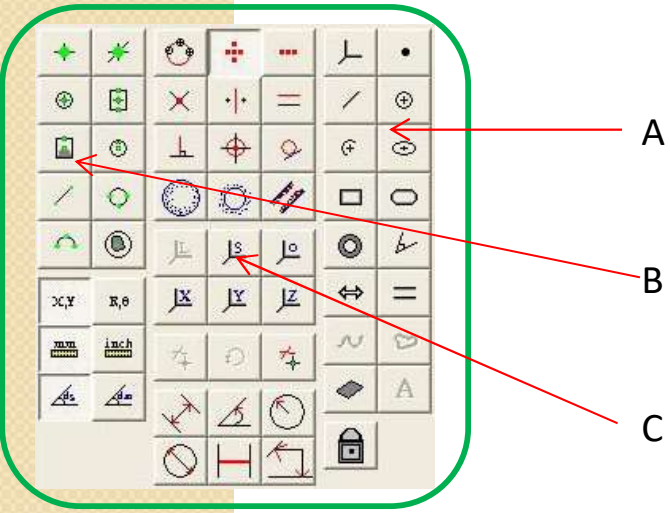


Introduction:

1. Toolbar
2. Video display window
3. Measuring graphic window
4. Illuminator control column
5. Coordinate display column
6. Measured result display column
7. Measuring tool window
8. Procedure edit window

OPTI-MEASURE SOFTWARE

Friendly and powerful operation function key:



1. What do we want to measure?
Reply: Graph functional key column (A)

2. How can we get the wanted?
Reply: Visual tool functional key column (B)

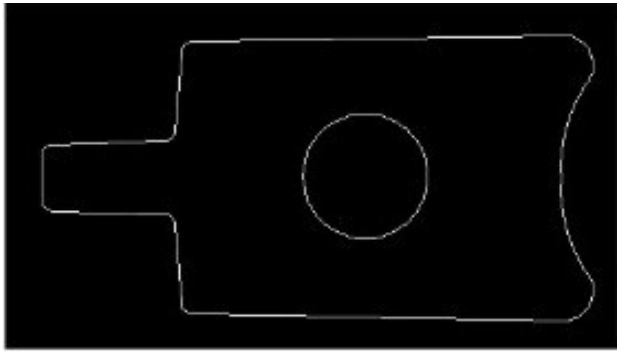
3. Is there any advanced tool to measure more complicated graph?
Reply: Graph constructive complicated graph (C)

2D non-contact measurement

Auto-edge-detecting function

Edge Contour

Output in DXF (CAD) format



Report
In Excel Format
In TXT Format
In Word Format

VMM 2D MEAUREMENT FEATURES

Measuring features

Point, Line, Circle, Ellipse, Polygon, Rectangular Slot, Key way Slot etc.

Construction features

Intersection Point between Two Lines,
Line between Two points, Two circles , Circle Point.
Distance between Two Points, Two Circles, Circle Point.

Orientation

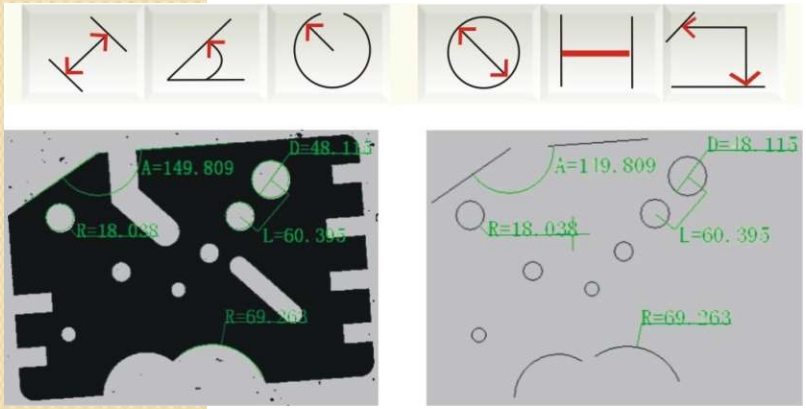
To change from machine coordinate to work piece coordinate

Alignment of Axis to X or Y axis
Shift of Origin by element
Or Orientation by input of coordinates and angle

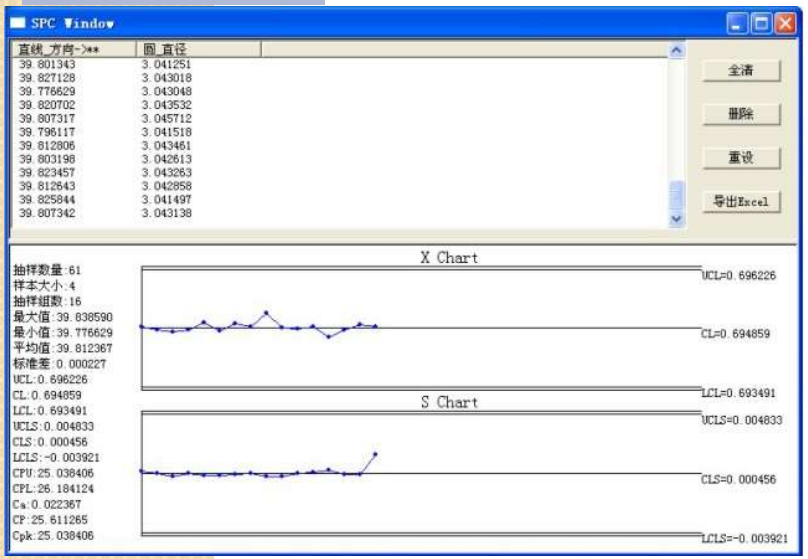
Dimension

Vertical, Horizontal, Aligned, Angle, Radius, Diameter etc.

Dimension label function

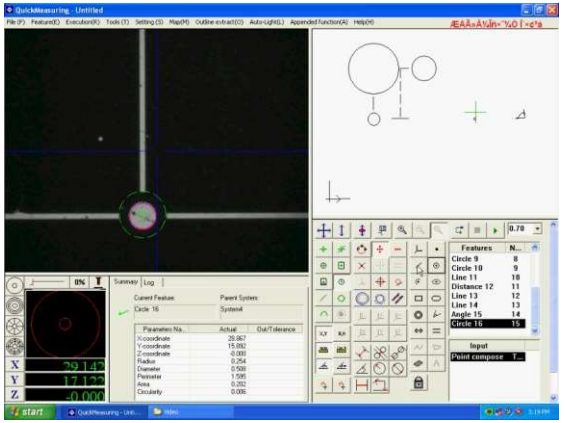


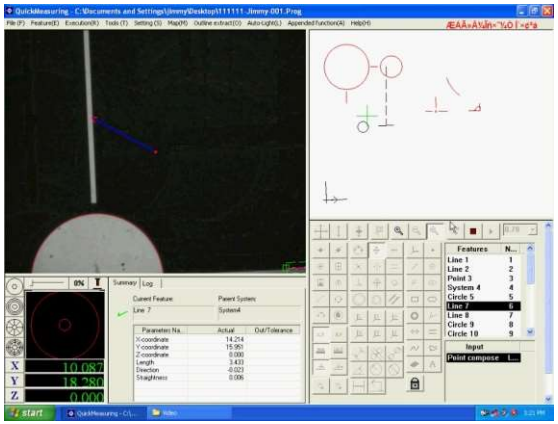
SPC



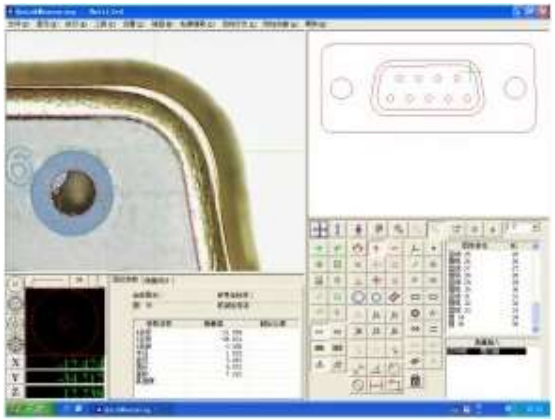
Save program and auto-run function

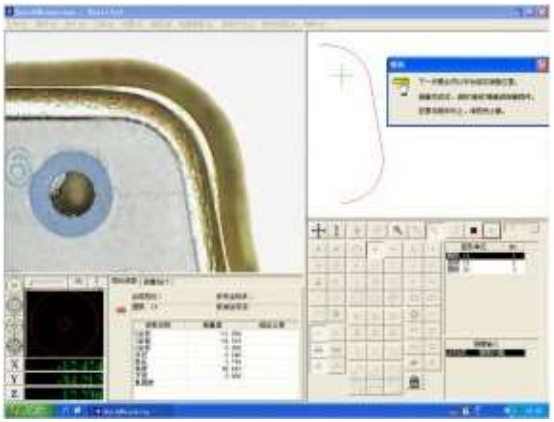
Step No.1. Create a coordinate system;
Step No.2. Make a program and save the program;
Step No.3. Input the program and then auto-run.





Manual video measuring machine





CNC video measuring machine