



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 CNC VISION MEASUREMENT MACHINE



Vision and Probe Measurement



Control by Joystick , Mouse and Keyboard



Electroless Nickle Plated



OPTI-COM MODEL VMM 2d / 3d

CNC Version

SPECIFICATION	VMM2D/3D			
MODEL TYPE				NOTE
TABLE SIZE	400X200	500X300	500X300	CUSTOM MADE CROSS TABLE ALSO PROVIDED
GUIDE WAYS ON X AND Y AXES	DOVETAIL TYPE GUIDED BY NEEDLE ROLLER FROM INA GERMANY			
X AXIS	200	250	300	
Y AXIS	100	150	200	
Z AXIS	150	150	200	
RESOLUTION IN MICRON	0.001	0.001	0.001	0.0005MM AND 0.0001MM SCALES OPTIONAL
MEASURING MODE	X,Y AND Z AXIS OF CNC MEASURING INSTRUMENT ARE CONTROLLED BY SERVO MOTOR, WITH HIGH POSITIONING ACCURACY AND SMOOTH MOVEMENT BY HIWIN BALL SCREW			
PROBE	3D MODELS WILL HAVE RENISHAW MODEL MCP TOUCH TRIGGER PROBE			
FOCUSSING	MOTORISED FOCUSSING			
ACCURACY	4+L/100			
REPEATABILITY 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			



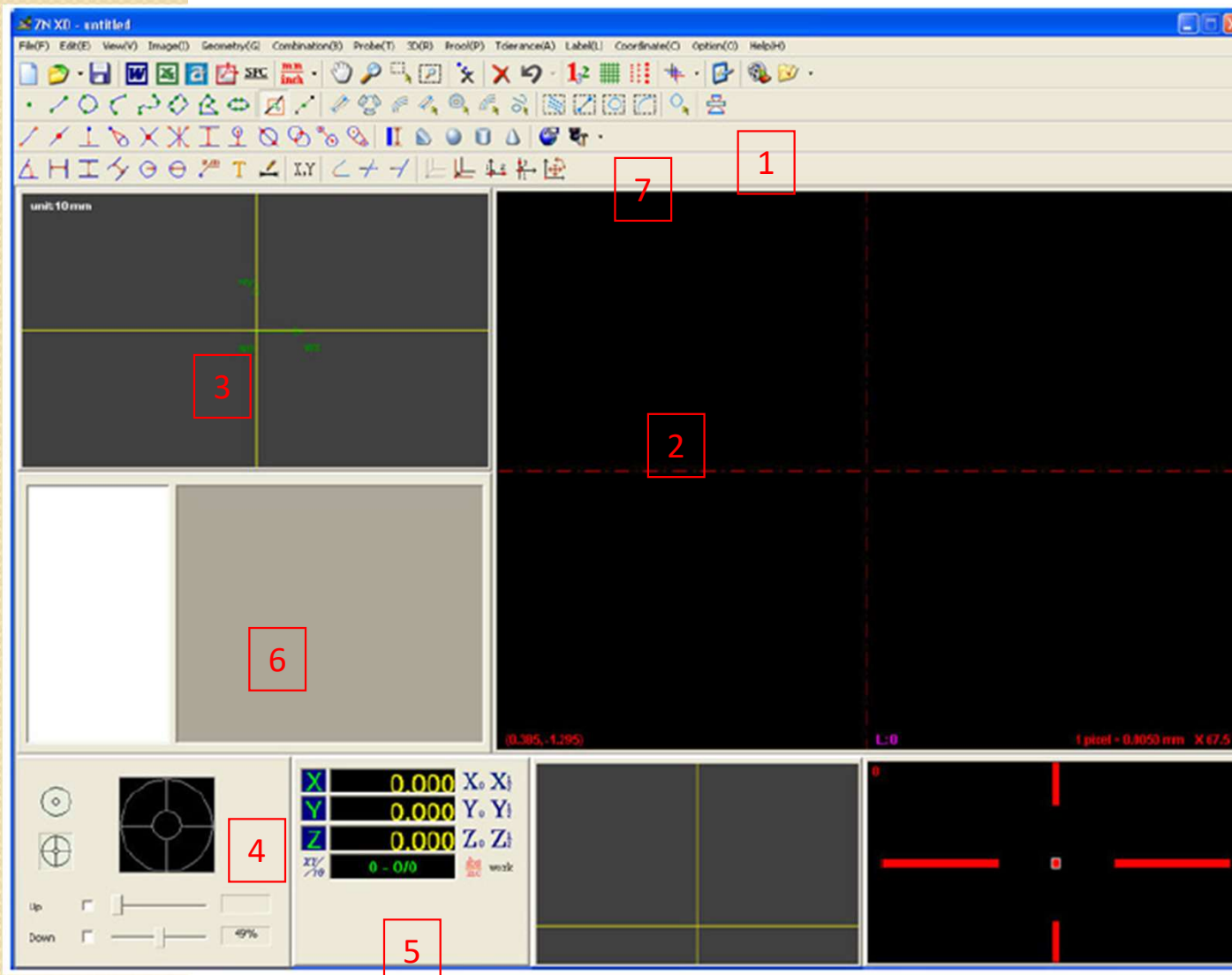
OPTI-MEASURE SOFTWARE

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

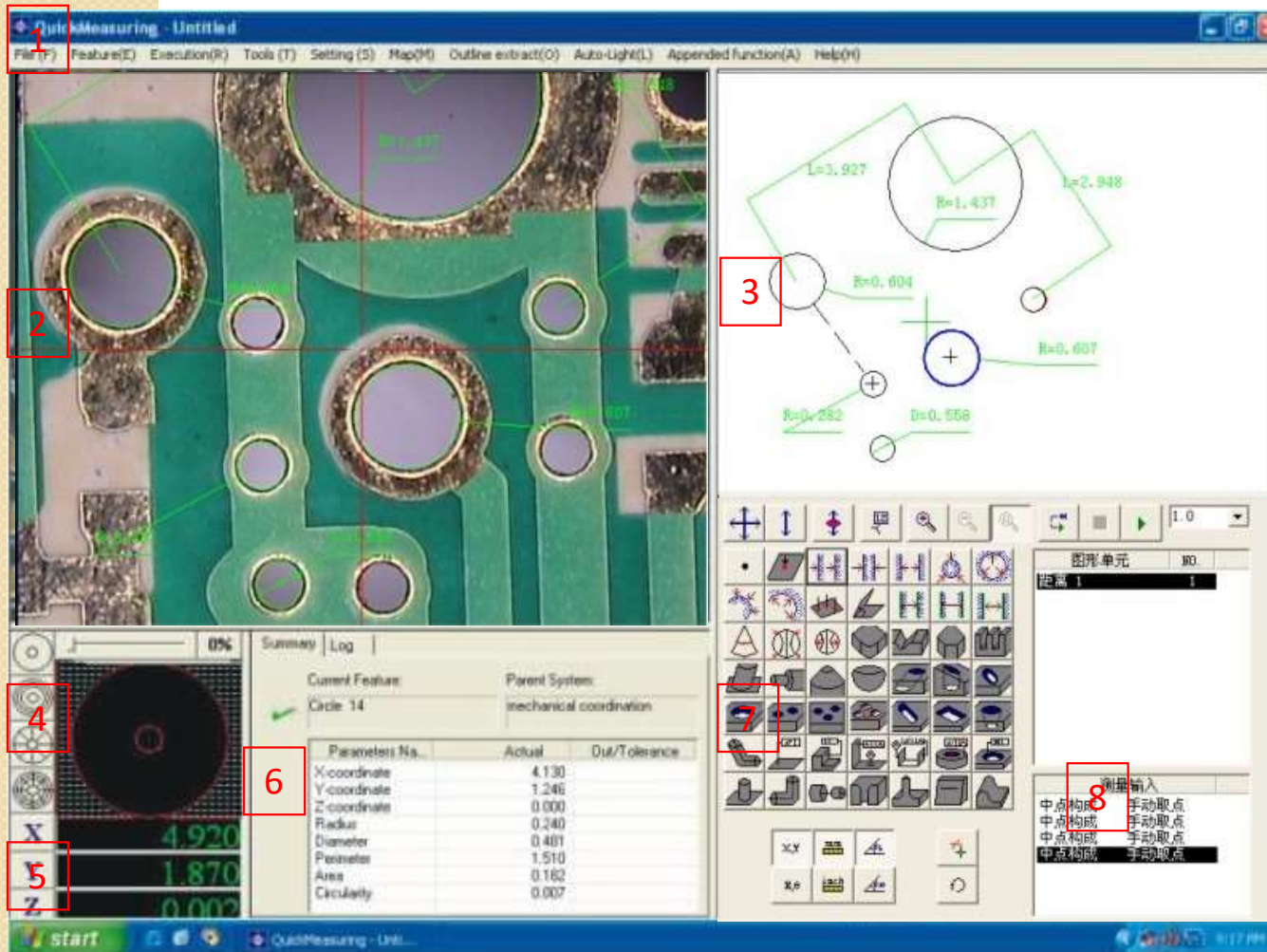




OPTI MEASURE 2D/3D SOFTWARE

Application:

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



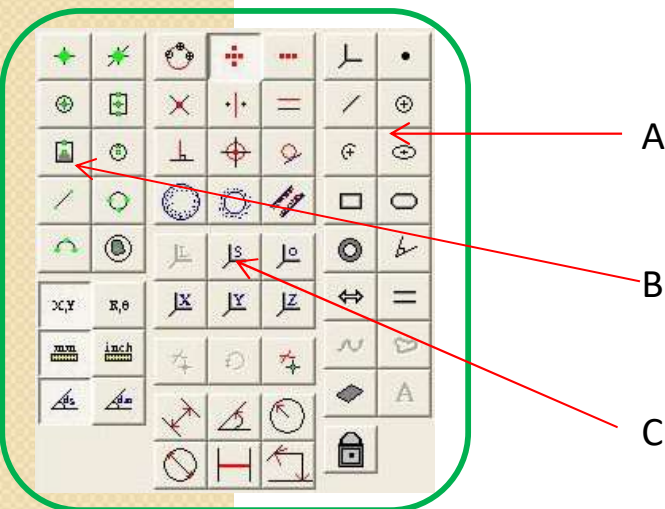
Introduction:

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 MEASUREMMENT 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

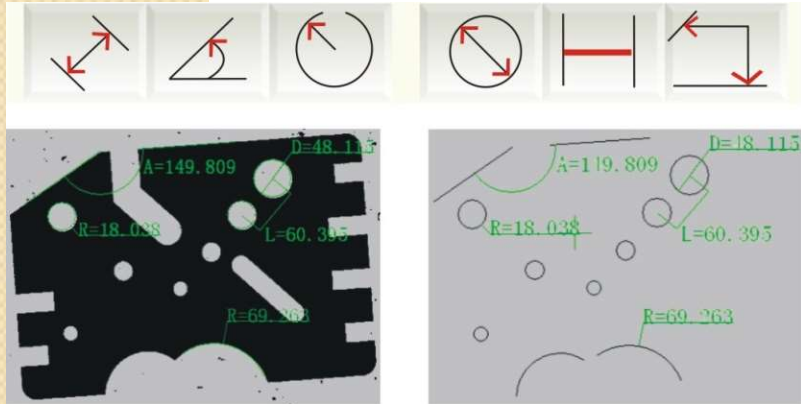
Alignment of Axis to X or Y axis
Shift of Origin by element
Or Orientation by input of coordinates and angle

Dimension

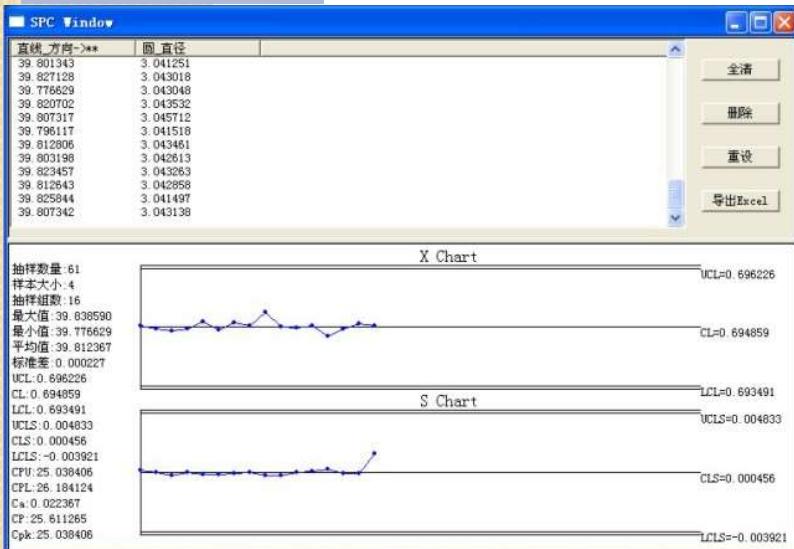
Vertical, Horizontal, Aligned, Angle, Radius, Diameter etc.



Dimension label function

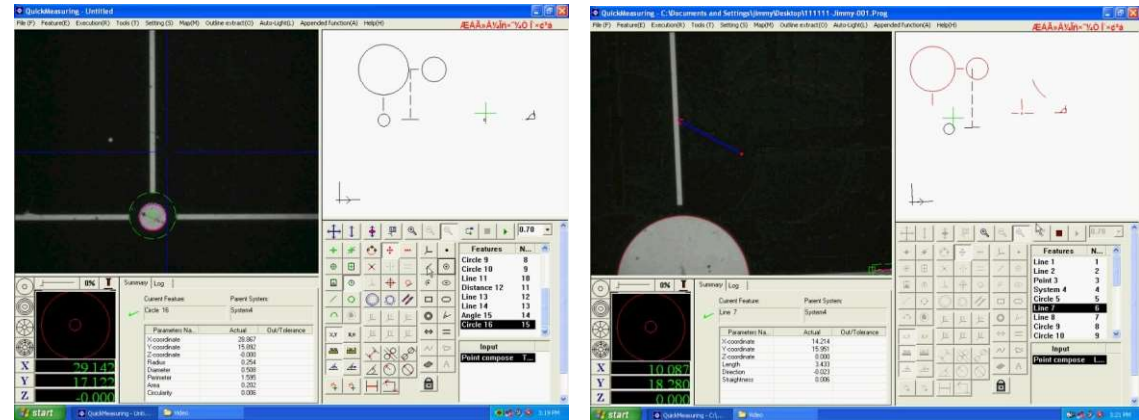


SPC



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.



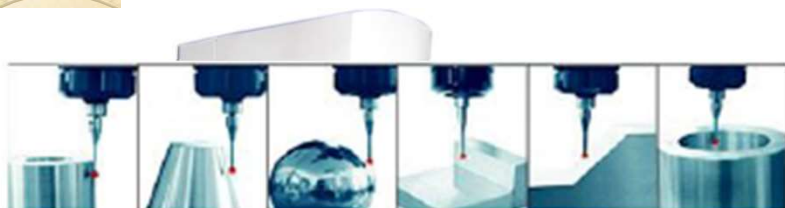
Manual video measuring machine



CNC video measuring machine



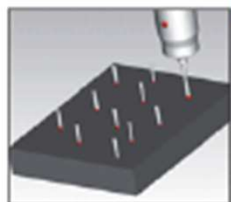
VERTICAL LIGHT PATH MODEL OPTI-COM VMM3d VISION MEASUREMENT MACHINE



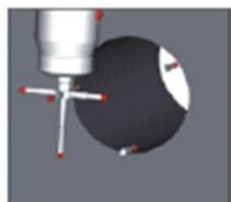
Cylinder, cone, sphere, height, plane, circle, line



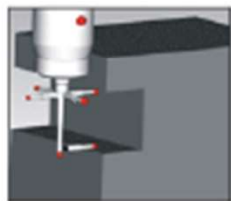
Probe functions



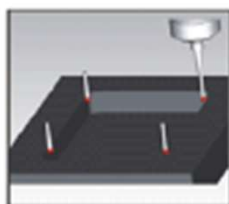
Planar measurement



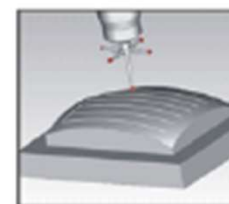
Vertical circle measurement



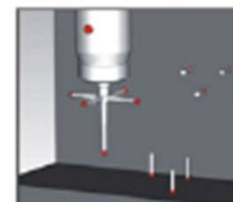
Height measurement



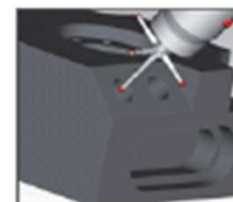
Internal side frame measurement



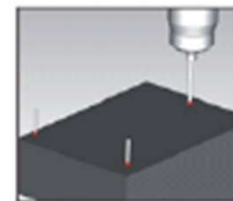
curve measurement



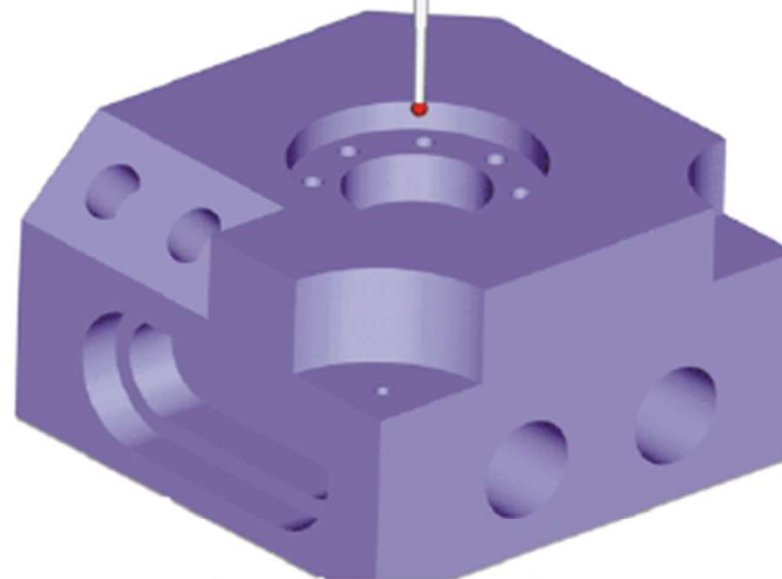
verticality measurement



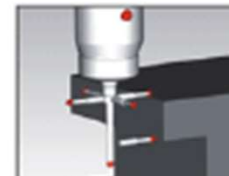
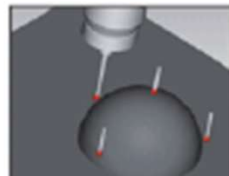
3D cylinder/hole measurement



level measurement



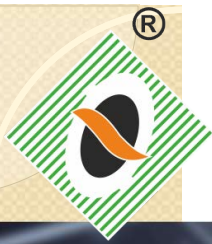
Powerful 3D measuring functions



Lens & probe coaxial



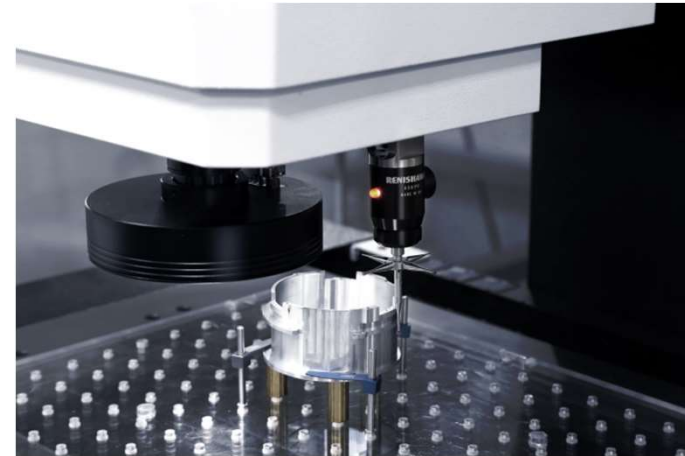
Five probe coaxial



CNC VISION MEASUREMENT MACHINE

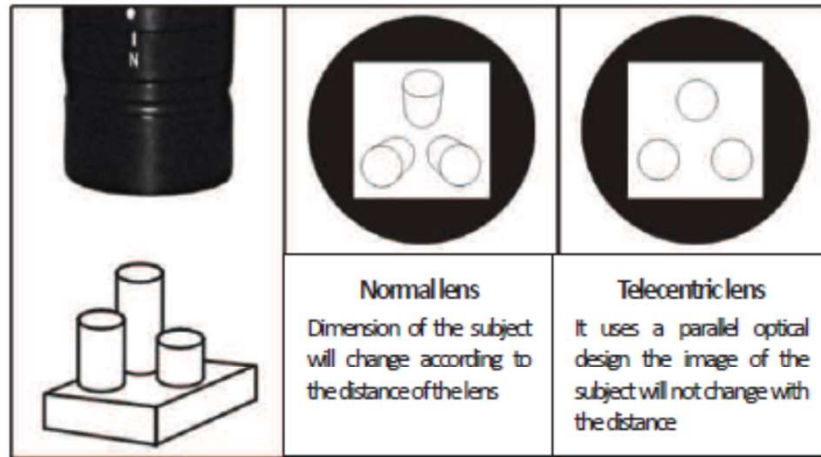


JOYSTICK CONTROL

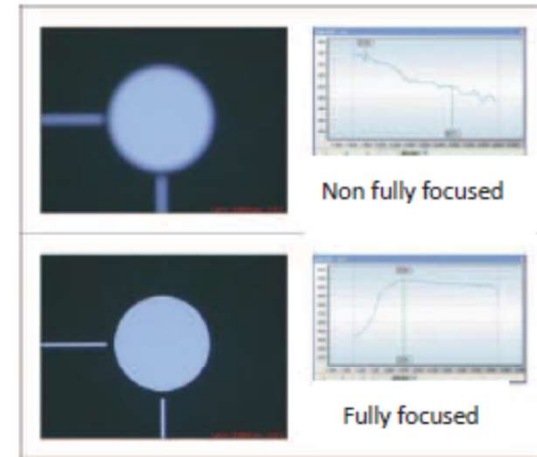


STAR STYL COMPTABLE

High performance telecentric lens



AF Auto focus





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