

SUNPOC®



More Than 15 Years Experience

Video Measuring Machine

S Series

Semi Automatic Video Measuring Machine

Website: www.sunpoc.com E-mail: info@sunpoc.com



S600 -Manual Vision Measuring Machine



Features

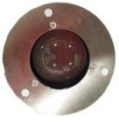
- Z-axis adopts servo motor driving, to realize motorized autofocus & improve the error and the manual operability of machine.
- Granite base with sturdy frame construction
- Bridge type construction for large work-piece that requires small measuring range
- Autofocus & semi-automatic measurement solve the problems of geometrical measurement
- “HIWIN” P level linear guideway and precision cross roller guideway for increased accuracy & working life
- High-definition detent zoom lens and high-resolution CCD performs high-definition measurement.
- Supports different file formats of data output such as Word, Excel, CAD etc

Model	Voltage input	Power
S500	110-230V alternate current	1000W
S600	110-230V alternate current	1000W
S800	110-230V alternate current	1000W

Specification

Model	S500	S600	S800
Measuring range(mm)	500*400*200	600*500*200	800*600*200
Machine size(mm)	1150*1300*1600	190*1000*1850	2400*1180*1850
Glass table size(mm)	450*360	690*570	890*670
Weight(kg)	550	590	710
Max. load(kg)	30		
Accuracy of X-Y axis	3+L/200μm		
Accuracy of Z axis	5+L/200μm		
XYZ resolution	1.0μm		
Z move	Motor driver, auto focusing.		
Repeatability(mm)	0.005		
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio: 36-230X		
Control system	UWC3200 control box, USB port, adjustable light		
Operated mode	Software and handle wheel		

Main Parts

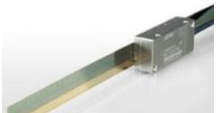
Parts	Picture	Specifications
CCD		1.3M pixel high-resolution digital color CCD
Optics		6.5:1 continual zoom step Manual lens
Surface illumination		*LED cold light *256 level programmable *Brightness adjustable
Bottle illumination		*LED cold light *Parallel light *256 level programmable *Brightness adjustable
Linear guide		Taiwan P grade linear guideway
Linear scale		Glass linear scale resolution 1um
Motor (Z Axis)		China synchronous AC servo motor

Optional Part

1. Coaxial light

	Highlight the uneven surface of the object, overcome the interference caused by the surface reflection, make brightness uniform and image clearly
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2. Linear scale

	Germany RSF metal scale resolution 0.0005mm or 0.0001mm
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3. Objective Lens

	Long working distance metallographic objective lens :5X, 10X ,20X
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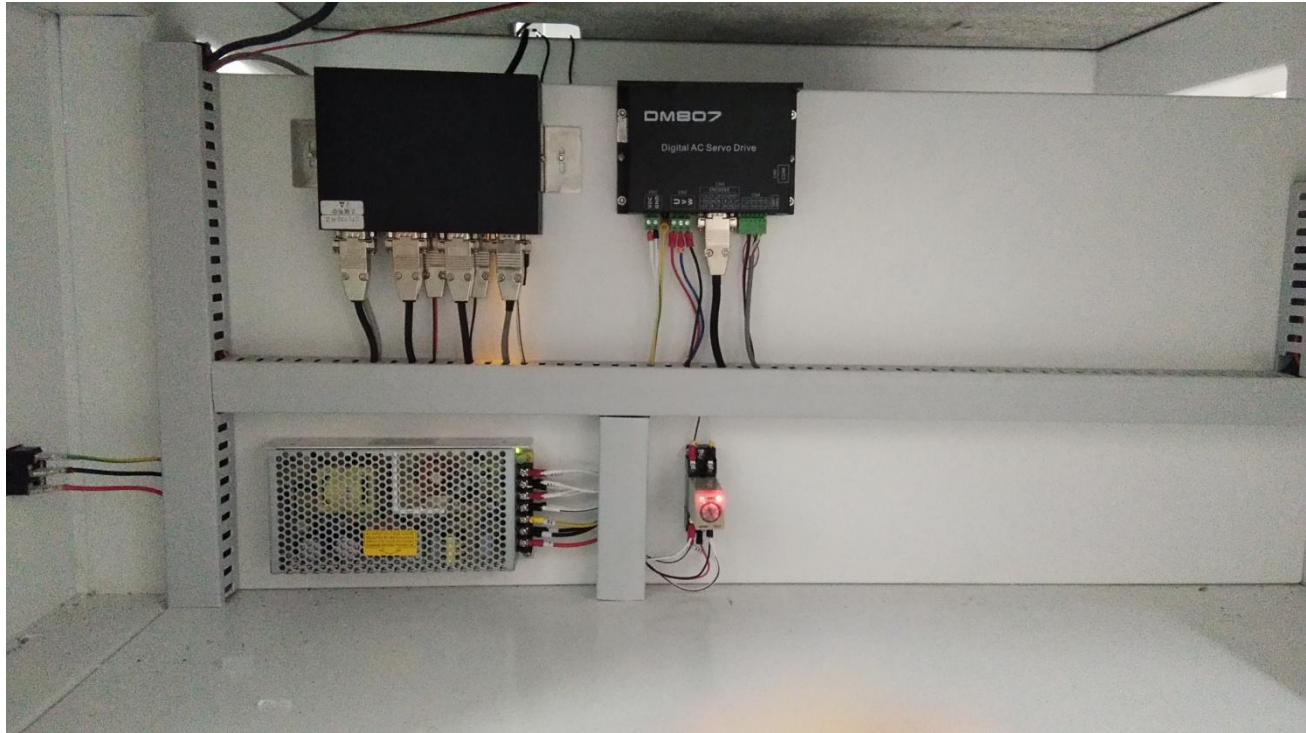
4. Original Windows OS

	Original Win10 or Win7 professional English version
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Machine Display

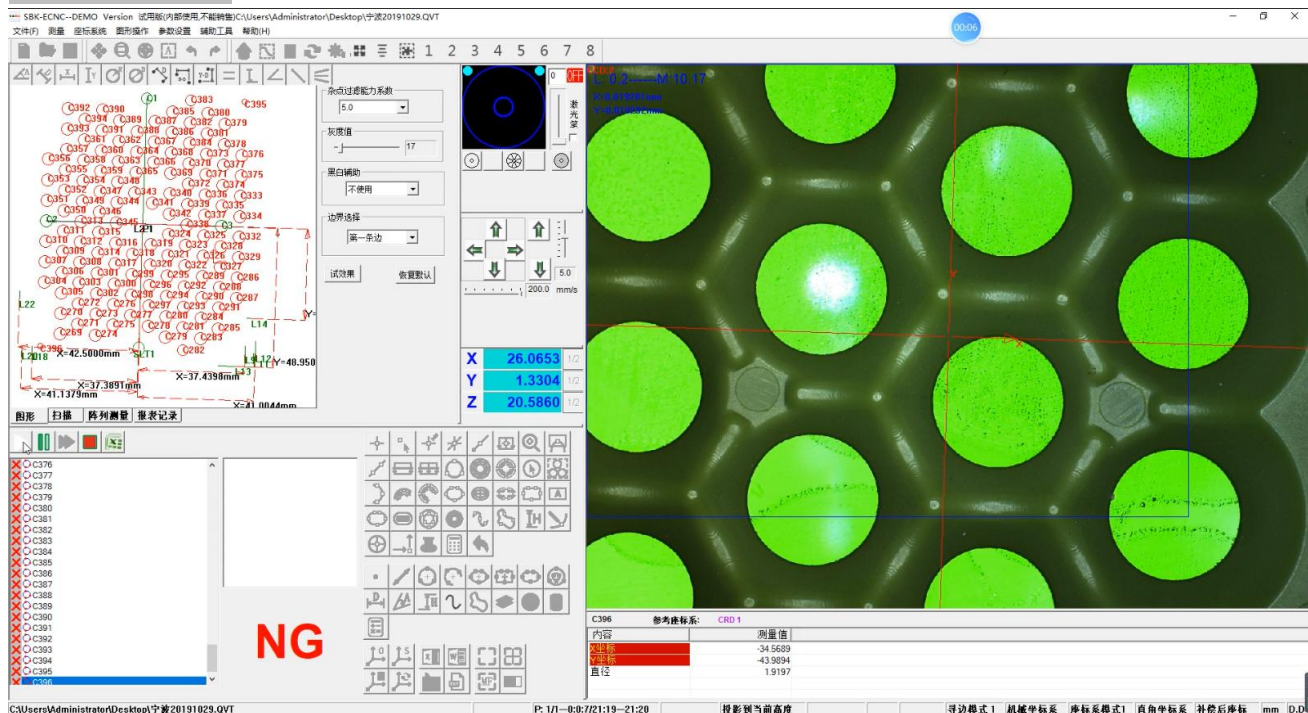


Inner wiring



Software (INSPEC simi-Automatic measuring software)

Software Interface

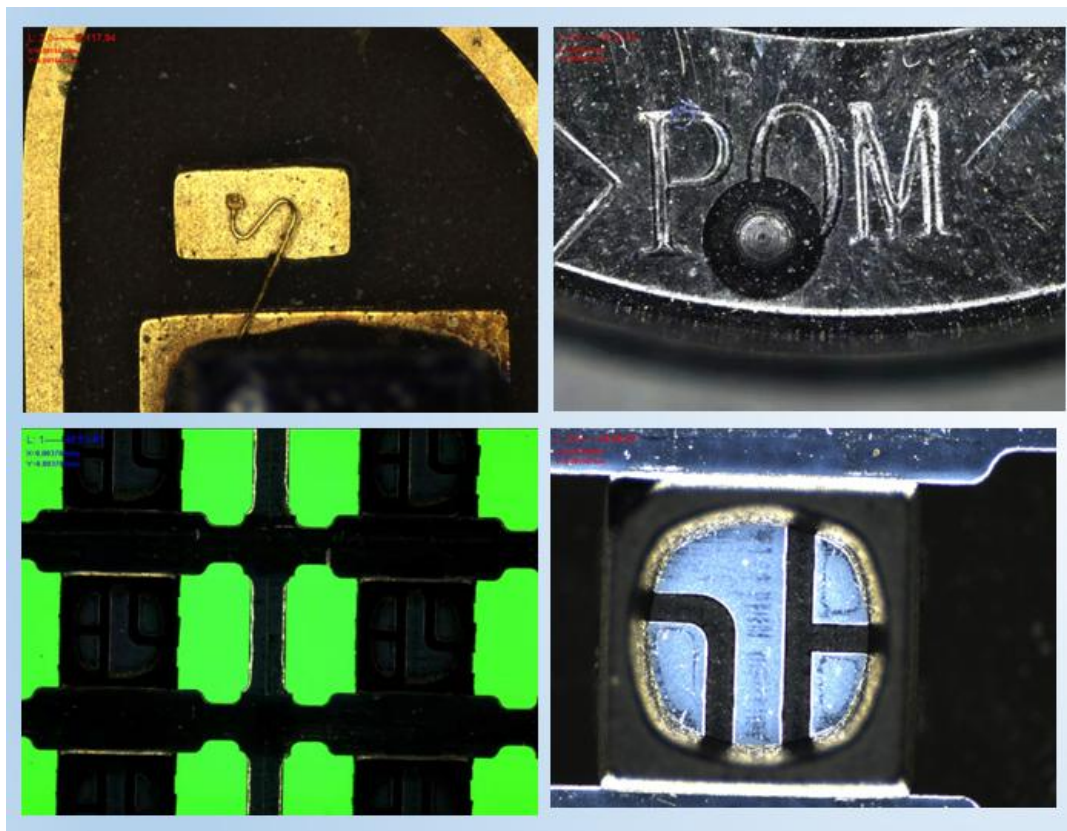


About software main functions

- automatic measurement function: using the mouse to automatically find a straight line, click on the circle, box selected area , arc
- automatic CNC: with the help of the fixture can be fully automatic measurement (measuring efficiency is much higher than the peers)
- quick optical measuring height function, measuring a height within 3 seconds
- optical measurement of flatness

- auxiliary focus: to help find the Z position when image most clearly (auxiliary focus to improve accuracy of measurement)
- image output: the measurement result can be output in the format of image (equal the digital camera functions)
- shape tolerance, roundness, straightness, parallelism and perpendicularity, concentricity
- set the tolerance: can set the product's actual size that out of range, beyond the background with red warning
- CCD correction: correction image distortion
- contour tracking: through the software automatically calculate the outline of work piece and display (display measuring location)
- vector graphics function: primitive font can be magnification or shrink without a limit
- mark function: dra, diameter, Angle, linear dimension, alignment, text annotations, coordinates
- the command line: can either enter the coordinates directly from the command line, involves, line, circle, arc, etc., to meet special needs
- map measurements: local photos that take from the workpiece can accurate integrate a complete workpiece photo , and save in a high-resolution photos. can also open the map previously took, Direct drawing, marking, modification, etc (synthetic big picture)
- virtual measurements: The virtual measurement technology enables the image measurement software to disengage from the hardware platform, the software also can measure the size of the products without the platform and products (can be offline measurement)
- two-dimensional copy number: product appearance can be trace, the trace of graphics can be formed into AutoCAD engineering diagram, can do reverse engineering
- SPC analysis: can calculate, CA, CP and CPK, DRL, DRR, DR, MAX, MIN, AVG, RANGE, STD, and can draw X - R diagram, scatter diagram, line chart, histogram, etc

CCD Image display



Standard Configuration List

Models and Specifications	Quantity
Machine host	1 set
SBK-INSPEC software	1 pc
Pixel calibration block	1 pc
16G U disk (inner software manual)	1 pc
Computer System (with host ,display ,mouse keyboard)	1 set
Table	1 pc
Warranty card	1 pc

Packing Details (wooden case)



Model	Packaging Size (mm)	Gross Weight (kg)
S500	1500*1200*1100	600
S600	1500*1200*1000	700
S800	2500*1320*2065	800

Measuring Application

Connector, Sheet metal part, Spring, Display PCB ,Precision Mechanical part, Electrical part, car part, Mould, Plastic parts ,LED plane...



Company Detail

Factory including: 5 sale centers and after-sale service centers, 1 R&D center, 1 import & export department

Production capacity: 1000 set/year

Sales area: more than 30 countries and regions (Thailand, Vietnam ,Malaysia, Korea, Canada, Indian, UK, Poland, US, Mexico...)

Goal: to be the most stable video measuring machine supplier in china

Value: customer-focus & striver-orientend

Address: No.18,Building C,Meidi Fortune Center, Changling North Rd.,Guanshanhu District, Guiyang City, China.550081

our customer:



Patent & Certificate

More than 16 patents about machine hardware and software



Our Workshop



