

You Think  
WE MEASURE



PART

QUICKIE

One Click Measurement System

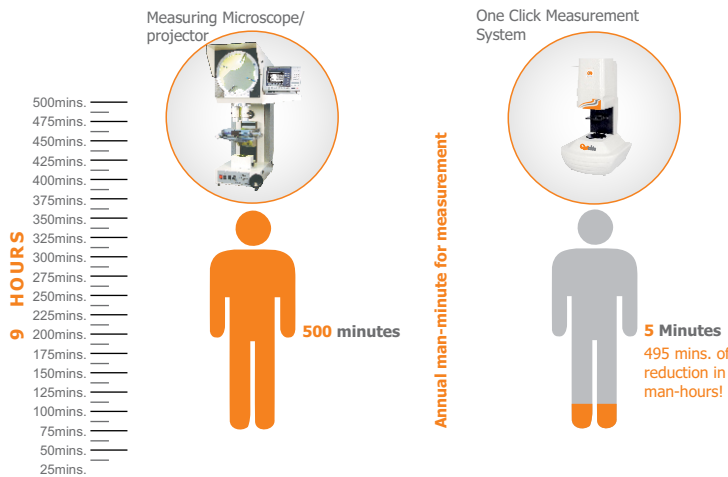
# Reduced MEASUREMENT TIME

The Fastest **One Click**  
Automatic Optical Inspection System  
available on earth.

**Highly Robust** & easy to use for  
**Multiple Part Inspections**

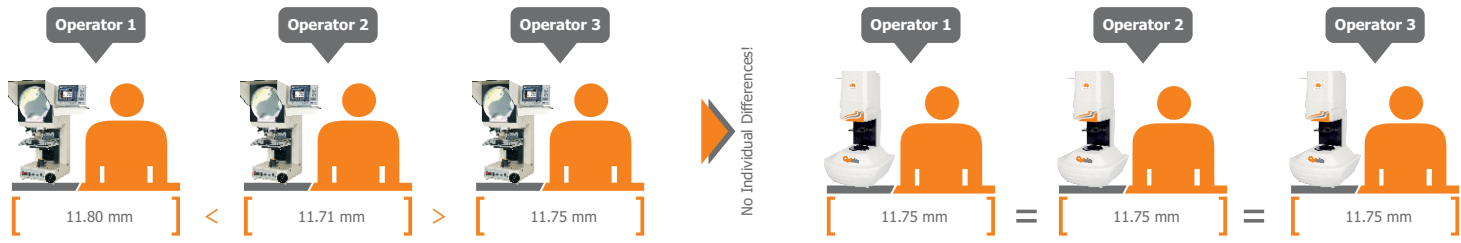
With built in Highly Accurate  
**Telecentric** Lens System.

Completes the inspection  
within seconds which  
otherwise would have  
taken **hours** on conventional  
measuring systems.



7 mm

Different results among different operators...



**PROBLEMS WITH TRADITIONAL MEASUREMENT SYSTEMS**

- Operator to Operator Variation
- Point-by-Point measurement takes time
- Setup Time is high
- Skilled Operator Required
- Wrong data entry by Operators

**ADVANTAGES OF PART QUICKIE**

- No operator to operator variation
- Immediate results within seconds
- Automatic Report Generation
- No skill required



The Automatic  
Optical Inspection System  
results in improved quality  
of both incoming components  
and final parts. The reduced time  
results in overall cost efficiency and  
thereby reducing the requirement of  
additional manpower.

## ADVANTAGES PART-QUICKIE

No Cross Hair  
Probing Error

No Reporting  
Error

No Orientation  
Error

No Alignment  
Error

No Focussing  
Error

No Point  
Selection Error

No Edge  
Selection Error

No Location  
Error

No Measurement  
Error



# PART-QUICKIE

The Fastest **One Click**

Automatic Optical Inspection System available on earth.

**Highly Robust** & easy to use for **Multiple Part Inspections**

With built in Highly Accurate **Telecentric** Lens System.

No need to align or focus the part before measurement

Multiple Dimensions measured in one click

Sub-pixel image processing gives accurate results irrespective of burrs

Calibrated from N.P.L. traceable masters from Graticute U.K.

Customizable report generation with color coded pass and fail

Measure Multiple parts to increase the throughput

Enclosed Structure to protect the lens & the light

Zero operator to operator variation

In-built Statistical Process control, Trend analysis & histograms



**PART-QUICKIE**  
(VERTICAL)



**PART-QUICKIE**  
(HORIZONTAL)



# TECHNICAL SPECIFICATIONS

Model	SVI-PQ-16	SVI-PQ-36	SVI-PQ-64	SVI-PQ-80	SVI-PQ-120	SVI-PQ-144
Field of View (W X H)	16x13mm	34x29mm	61x51mm	80x60mm	120x90mm	144x110mm
No. of Cameras	1					
Camera	5MP Industrial Camera			12MP Industrial Camera		
Accuracy	±3µm			±5µm		
Repeatability	±2µm			±3µm		
Least Count	0.1µm					
Illumination-Surface (optional)	LED					
Illumination-Countour	LED					
Focusing Range (Optional)	30mm					
Power Supply	110/220V @ 50Hz ±5%					
Machine Weight	25Kgs to 50 Kgs					
Interface	USB/Ethernet					
Optional Hardware	Laptop with WIN7/8/10 operating system					
Base Platform & Column	Metal					
Auto Alignment	360° Compensation					
Operating Temp. Range	Ambient to 30°C					
Max. Measurement Point	10,000					
Batch Programming	Optional					
Touch Screen Monitor	Optional					
Table	Optional				N.A. (Floor Standing)	
<b>Software Features</b>						
Element Tools	Point / Line / Circle / Arc / Distance / Angle					
GD&T	Parallelism / Perpendicularity / Concentricity / Eccentricity / Ovality / Straightness					
Edge Detection	Autotools / Auto Edge Detection					
Application Tools	Pitch Measurement / Thickness Measurement / Width Measurement					
Thread Analysis	Minor Diameter / Major Diameter / Pitch / Thread Angle					
Manual Measurement	Yes					
Coordinate System Configuration	Yes					
Batch Configuration of Tolerance	Yes					
Element List Editing	Yes					
Colour Measurement System	Yes					
CAD Interface	DXF Overlay					
Measurement of Images	Yes					

**Note:** Customized sizes are available from 8mm diameter to 150mm diameter. Dual Camera mode also available

# DUAL PART-QUICKIE

The Fastest **One Click**

Automatic Optical Inspection System

available on earth.

**Highly Robust** & easy to use for

**Multiple Part Inspections**

With built in Highly Accurate

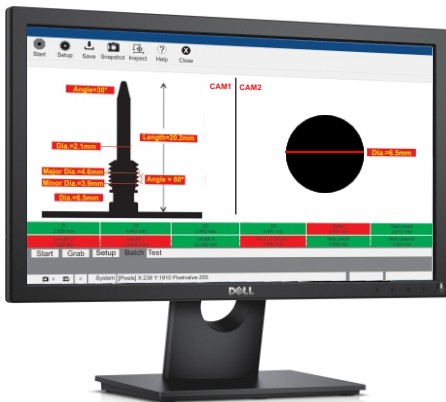
**Telecentric** Lens System.



**PART-QUICKIE**  
(HORIZONTAL)



**PART-QUICKIE**  
(VERTICAL)



**DUAL PART-QUICKIE**

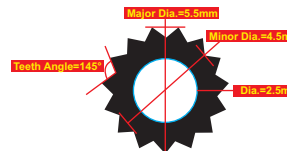
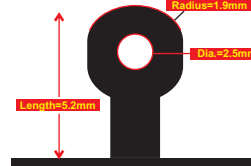
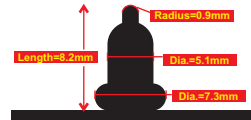
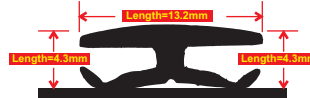
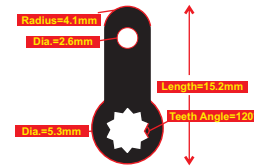
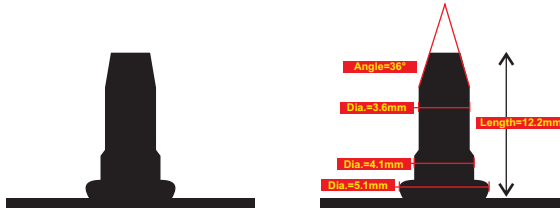
# DUAL PART QUICKIE

# TECHNICAL Specifications

Model	SVI-DPQ-16	SVI-DPQ-36	SVI-DPQ-64	SVI-DPQ-80	SVI-DPQ-120	SVI-DPQ-144
Field of View (WxH) Cam1	16x13mm	34x29mm	61x51mm	80x60mm	120x90mm	144x110mm
Field of View (WxH) Cam2	16x13mm	34x29mm	61x51mm	80x60mm	120x90mm	144x110mm
No. of Cameras	2					
Camera	5MP Industrial Camera			12MP Industrial Camera		
Accuracy	±3µm			±5µm		
Repeatability	±2µm			±3µm		
Least Count	0.1µm					
Illumination-Surface (optional)	LED					
Illumination-Countour	LED					
Focusing Range (Optional)	30mm					
Power Supply	110/220V @ 50Hz ±5%					
Machine Weight	25Kgs to 50 Kgs					
Interface	USB/Ethernet					
Optional Hardware	Laptop with WIN7/8/10 operating system					
Base Platform & Column	Metal					
Auto Alignment	360° Compensation					
Operating Temp. Range	Ambient to 30°C					
Max. Measurement Point	10,000					
Batch Programming	Optional					
Touch Screen Monitor	Optional					
Table	Optional				N.A. (Floor Standing)	
<b>Software Features</b>						
Element Tools	Point / Line / Circle / Arc / Distance / Angle					
GD&T	Parallelism / Perpendicularity / Concentricity / Eccentricity / Ovality / Straightness					
Edge Detection	Autotools / Auto Edge Detection					
Application Tools	Pitch Measurement / Thickness Measurement / Width Measurement					
Thread Analysis	Minor Diameter / Major Diameter / Pitch / Thread Angle					
Manual Measurement	Yes					
Coordinate System Configuration	Yes					
Batch Configuration of Tolerance	Yes					
Element List Editing	Yes					
Colour Measurement System	Yes					
CAD Interface	DXF Overlay					
Measurement of Images	Yes					

# APPLICATIONS

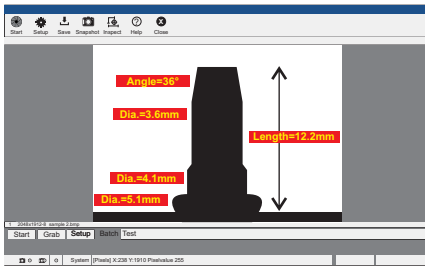
- Brass Parts
- Rubber Parts
- Rubber Seals
- Plastic
- Aluminium
- Metal
- Castings
- Bearings
- Rivets
- Cables
- Switch Gear
- Electronics
- Electrical
- Automobile
- Surgical Screws
- Brass Screws
- Medical Devices
- Sheet Metal Components
- Diamonds
- Jewellery
- Watch Components
- Precision Engineering
- Health care Products
- Infusion & Injections
- Orthopaedics
- PCB's
- Connectors
- Semi Conductors
- Aerospace
- MCB's Assembly





# MEASURING SOFTWARE

## SOFTWARE DESKTOP



Comprehensive Software Desktop with all the measuring functions just a click away. Simultaneously with the measurement you will have the result display of the measurement in front of you on the software desktop.

## AUTO ALIGNMENT



The location and the orientation of the path are automatically adjusted. There is no need of manual alignment or preparation of any jig or fixture to start the measurement.

## TOLERANCE TYPES

Supports more than 10 types of tolerance settings with display in color coded pass and fail output. If there's a part or feature that doesn't measure up, you will know it immediately. All out of tolerance features displayed in red.

### LOCATION

- Bidirectional
- True position
- Concentricity

### SIZE

- Length
- Radius
- Angle
- Width
- Diameter

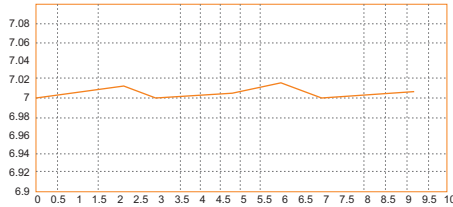
### FORM

- Straightness
- Roundness

### ORIENTATION

- Parallelism
- Perpendicularity

## INTEGRATED SPC



Inbuilt Trend Monitoring and Statistical Evaluation of any measured quantity is a prominent feature of the software.

## REPORT GENERATION

Part Details		Operator Details	
Part Name	HTS	Operator Name	Pratik
Part No.	3075	Operator Id	12
Customer Name	MHT	Customer reference	
Address			

Sl. No.	Dimension & Unit	Dimension 1 (mm)	Dimension 2 (mm)	Dimension 3 (mm)	Length 1 (mm)	Length 2 (mm)	Roundness
1	Ø3.6mm	3.600	3.600	3.600	12.200	12.200	0.000
2	Ø4.1mm	4.100	4.100	4.100	12.200	12.200	0.000
3	Ø5.1mm	5.100	5.100	5.100	12.200	12.200	0.000
4	Length	12.200	12.200	12.200	12.200	12.200	0.000

Fully customizable report format with color coded Pass /Fail. Confirm to your ISO specifications and send data directly to an ASCII, Excel or any SPC program.

## EASY TO DO PROGRAMMING



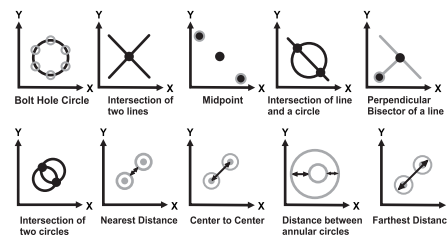
The software provides the flexibility to make new programs for new parts which are not part of standard software menu. The new software can be easily linked to the data management module for generating reports according to the any latest standard.

## DEVIATION ANALYSIS



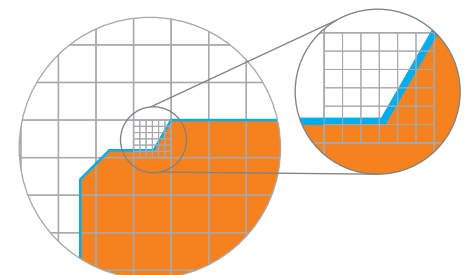
An advance feature to analyze each of the 1000 points on the sample helps in understanding the variation in detail.

## CONSTRUCTION CAPABILITIES



Construction of mid-lines, bolt hole circle, mid-points, intersection of two lines etc. All 2D construction are possible in this software

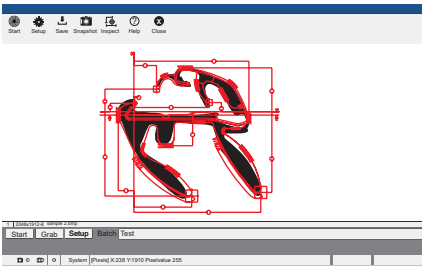
## 1/100 PIXEL IMAGE PROCESSING



With Sub-pixel Image Processing you can measure by one hundredth or less of a pixel of the light receiving element.

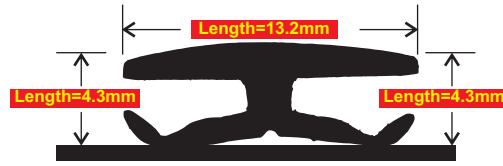
# MEASURING-SOFTWARE

## DXF Overlay (CAD INTERFACE)



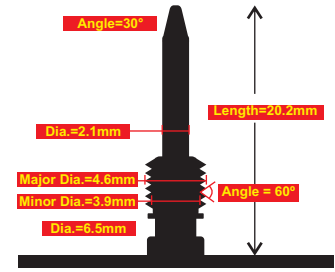
The new DXF file import system allows for the display of DXF file as an overlay on the live video image. Translate and rotate of your DXF import for fit against the video image.

## RESULTS ON IMAGE



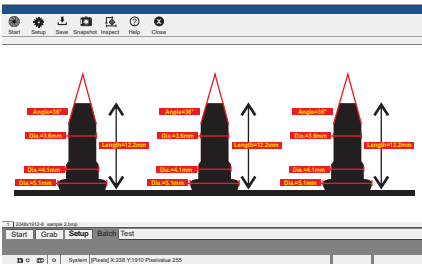
The graphical representation displays the results of measurement on the image which simplifies the process of identification of the measurements done.

## THREAD ANALYSIS



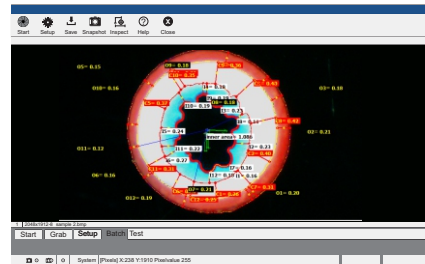
Our Software is capable of thread measurements. It can measure most important elements like: major diameter, minor diameter, effective diameter, pitch diameter, pitch, thread angles.

## BATCH PROGRAMMING



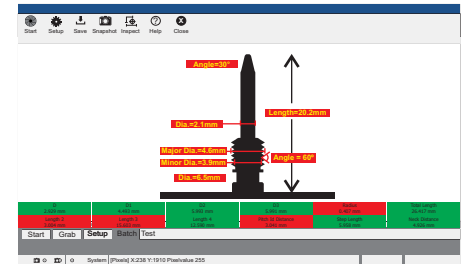
Inbuilt Trend Monitoring and Statistical Evaluation of any measured quantity is a prominent feature of the software.

## COLOUR MEASUREMENT



Our software is capable for different types of colour measurements, colour percentage and colour analysing.

## COLOR CODED TOLERANCE



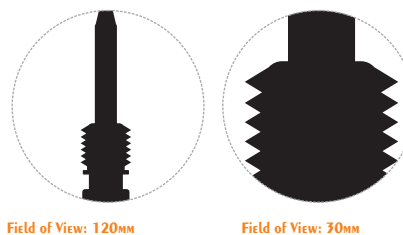
The software provides the result output in a color coded format on the result bar. The red and green display helps easy identification of pass and fail features.

## COMPATIBILITY WITH PNEUMATIC CONTROL



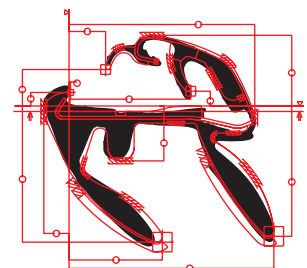
Our software is compatible with Pneumatic control system, air control system and bin etc. with help of RS232 interface.

## DUAL CAMERA



The dual camera option helps in doing precise measurements in large field of view system resulting in high accuracy and repeatability along with more area for measurement.

## PROFILE TOLERANCE



Profile deviation analysis is another important feature of the software with which you can find out the deviation in the actual part with the standard drawing.

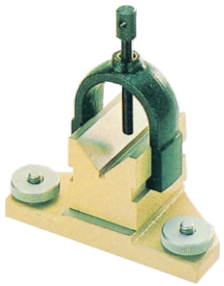
# ACCESSORIES



Touch Screen Monitor



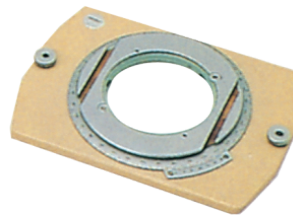
Foot Switch



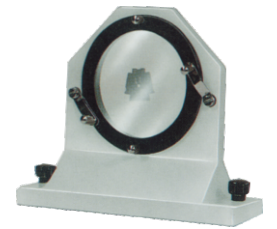
V Block



Center Holding Device



Rotary Table



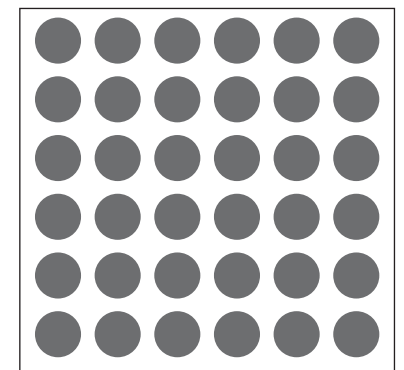
Vertical Holding Device



Pass Fail Bin System



Air Gun



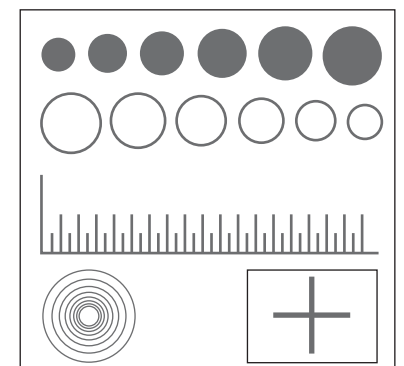
Calibration Master: Grid



Top Light



Co-Axial Illuminators



Calibration Master : Universal

## OUR OTHER PRODUCTS



PROFILE PROJECTOR



AUTOMATIC VISION MEASURING SYSTEM



VISION MEASURING MICROSCOPE



COORDINATE MEASURING MACHINE

# SIPCON INSTRUMENT INDUSTRIES