

15, 3rd Floor, Above ICICI Bank, Dr Rajkumar Road, Rajajinagar 2nd Stage, Bangalore - 560010. INDIA. GSTN - 29ASZPK0719M1ZW

Industrial Smart One-Touch VMS

We are happy to introduce our Optike Industrial Smart One-Touch Video Measurement System and are proud to present it to you. This machine has a high level of accuracy and repeatability. The machine has a very easy user interface, using which each part's CTQ dimensions and tolerances can be setup once and used to inspect more than one part using One-Touch. Simply place parts on the work stage and click the button. It locates parts automatically placed anywhere within the system's fields of view and provides an output of parts that are okay and not okay. It also automatically records measurement results and creates detailed inspection reports for users. This user-friendly machine can be used by anyone to complete their work.

Benefits of Optike Smart One - Touch VMS

	Traditional VMM	Optike Smart One-Touch VMS	Benefits	
Accuracy	More Than ± 10 - 20 µm*	Upto ± 1 µm*	More Reliable & Precise Measurements.	
Repeatability	More Than ± 10 - 20 μm*	Upto ± 0.5 µm*	Stable Measurement which can be used for Machine Program Analysis	
Skilled Operator	Highly Skilled Operator is required	Not Required	Once you program it will automatically Run.	
Measurement Qualification	Is done manually by Operator	Automatic	Once we set the tolerances for dimension, Software will measure and give Output.	
Cycle Time / Effort	Required a lot of Rapid within Just p		Just place the part & within Seconds its Done.	
Programming Effort	Highly Skilled Operator is required	Very Simple & Easy to use Tools	We have a good library of Tools which are veryeasy to use & 2D GD&T Parameters too.	
Batch Checking	All Operations have be repeated	Measure 200 Parts at a time (Single Orientation)	Better Process Control & Increased Productivity	
Software Functionality	Very Traditional & Limited	Highly Customizable & MES Integration	Many unique advantage due to innovative software platform	
Long Term Reliability	Will deteriorate due to Linear Guides	Fully Optical Calibration	Our Platform is more reliable & maintain free. Optical Calibration using Bi Tele centric Lens.	

Off Mobile: +91 73495 07272 | www.khushent.com | info@khushent.com



1. S1010 - Industrial Smart One-Touch VMS

• Measurement Range: Ø 100 x 80mm

Accuracy: upto +/-3µm*

• Repeatability: upto +/-1µm*

• Product Dimensions: 580 x235 x 790 mm

• Movement Stroke: only **Z Axis** 75mm

• Glass Stage Size: 150 x150mm

Weight: 40KG

• Max Load capacity: 5kgs

• Measurement cycle time (seconds): <2seconds

• Measurement type: 2D





2. S2035 - Industrial Smart One Touch VMS

• Measurement Range: 300x 200mm to 230 x 130mm

Accuracy: upto +/-lµm*

• Repeatability: upto +/-0.5µm*

Product Dimensions: 580 x495x790 mm

Movement Stroke: X axis-150mm, Y-100mm, Z-75mm

• Glass Stage Size: 318×268 mm

Weight: 55KG

Max Load capacity: 5kgs

• Measurement cycle time (seconds): <2seconds

• Measurement type: 2D

3. <u>S2015</u> - Industrial Smart One-Touch VMS

Measurement Range: Ø 150 x 110mm to 50 x 35mm

Accuracy: upto +/-2µm*

Repeatability: upto +/-0.5µm*

• Product Dimensions: 650 x 335 x 885 mm

Movement Stroke: X axis-120mm, Y-140mm, Z-75mm

• Glass Stage Size: 249 x 229mm

• Weight: 65KG

Max Load capacity: 5kgs

Measurement cycle time (seconds): <2seconds

• Measurement type: 2D





4. <u>S4010</u> - Industrial Full Automatic Flash Image Measuring Equipment

- Measurement Range: Ø 100x 80mm
- Accuracy: upto +/-3µm*
- Repeatability: upto +/-lµm*
- Product Dimensions:790 x230x385 mm
- Movement Stroke: Dual field
- Glass Stage Size: 150 x150mm
- Weight: 27KG
- Max Load capacity: 3kgs
- Measurement cycle time (seconds): <2seconds
- Measurement type: 2D





5. <u>\$2025</u> - Industrial Smart One Touch VMS

- Measurement Range: 200x 200mm to 130 x 130mm
- Accuracy: upto +/-lµm*
- Repeatability: upto +/-0.5µm*
- Product Dimensions: 580 x430x790 mm
- Movement Stroke: X axis-120mm, Y-140mm, Z-75mm
- Glass Stage Size: 249 x 229mm
- Weight: 55KG
- Max Load capacity: 5kgs
- Measurement cycle time (seconds): <2seconds
- Measurement type: 2D

6. <u>\$2030</u> - Industrial Smart One -Touch VMS

- Measurement Range: 300x 210mm to 200 x 135mm
- Accuracy: upto +/-2µm*
- Repeatability: upto +/-0.5µm*
- Product Dimensions: 675 x495x885 mm
- Movement Stroke: X axis-150mm, Y-100mm, Z-75mm
- Glass Stage Size: 318 x268mm
- Weight: 75KG
- Max Load capacity: 5kgs
- Measurement cycle time (seconds): <2seconds
- Measurement type: 2D





7. S6050 - Industrial 2D+3D Flash Measuring Equipment

- Measurement 500x 400mm to 430 x 350mm
- Accuracy: upto +/-lµm*
- Repeatability: upto +/-0.5µm*
- Product Dimensions: 1060 x 860 x 1890 mm
- Movement Stroke: X axis -350mm, Y-250mm, Z-200mm
- Glass Stage Size: 318 x 268 mm
- Weight: 650 KG
- Max Load capacity: 25kgs
- Measurement cycle time (seconds): <2seconds
- Measurement type: 2D



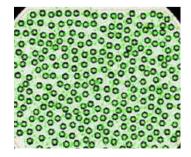


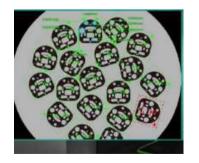
8. SP3020 - Industrial Smart One Touch VMS

- Measurement 194x 135mm to 162 x 108mm
- Accuracy: **upto +/-0.7μm***
- Repeatability: upto +/-0.25µm*
- Product Dimensions: 670 x500x855 mm
- Movement Stroke: X axis -150mm, Y-100mm, Z-75mm
- Glass Stage Size: 318 x 268 mm
- Weight: 75KG
- Max Load capacity: 5kgs
- Measurement cycle time (seconds): <2seconds
- Measurement type: 2D

Example work pieces measurement Pictures









999+ position can be measured at a time

200+ work pieces can be measured at a time





Measurement function

- Geometric Tolerance: Straightness, roundness, perpendicularity, parallelism, position, concentricity, symmetry, profile
- **Continuous Measurement**: Continuous measurement results will automatically judge OK or NG
- **Build a coordinate system**: Supports five coordinate system establishment methods such as point and line, line and line, can translate coordinate system, and can also establish multi-coordinate system
- **Special application tools**: Circumference, automatic measurement, screw measurement, fillet, C surface, curve length, slot, point position, circle diameter cross, ellipse, area.

Rich statistical Program

1. The measurement results are saved automatically

All measurement result are saved into project file automatically. The number of OK and NG, NG rate, σ . 20, 30 can be calculated automatically according to the saved results. Meanwhile, date, time and lot number can be saved automatically, so as to facilitate the extraction of measurement results in the past period.

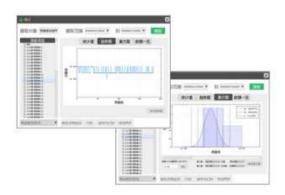


2.Tendency chart

The abnormality of the production equipment and production process can be monitored through the regular change trend of the measured value, such as the monotonic change of the measured value, the periodic change.

3. Histogram

It can reflect the status and distribution of product quality fluctuations, and transmit information about process quality more intuitively, which can be used to judge and test product quality and failure rate





High efficiency

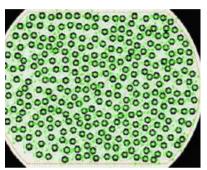
999+ positions can be measured at a time

As shown in the figure, different features of work piece can be measured simultaneously, and 999 positions can be measured for once programing.



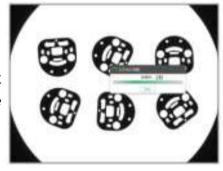
200+ work pieces can be measured at a time

As shown in the figure, multiple work pieces can be arranged and measured with one key simultaneously, and each work piece can be measured at different positions. Integrated barcode operator, support multiworkpiece 1D or 2D code measurement, while measuring the size, the scanning result can be bound to the data, simplifying the manual scanning process.



1 s to complete a measurement

Measurement can be completed in 1s. The measurement result is clear, the measurement working hours can be reduced greatly, and the efficiency can be improved.



Operation process of the Machine

Simple operation process

Place work piece One-key measurement







Automatic measurement

The self-developed automatic measurement operators can realize simultaneous measurement of width, hole, ring, included angle and other elements, so it is easy to operate and fast in measurement.

Practical auxiliary tools for measurement

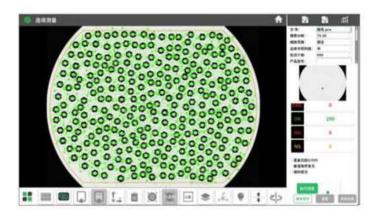
27 auxiliary operators can fit intersection point, vertical line, tangent line and tangent circle, and simplify complicated measurement according to the auxiliary elements such as edge. When adding auxiliary elements, it can draw directly, simple to operate, and improve the programming speed greatly



Measurements

Testing requirements: Lots of workpieces batch measurement quickly Solution: Smart series, one-key measurement, deal with 999+dimension, 200+ workpieces batch measurement in few seconds.

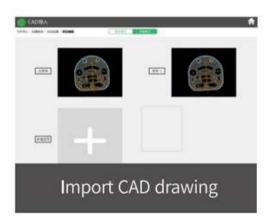


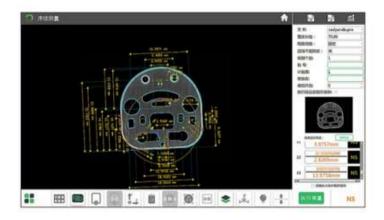


Lots of workpieces to test together by one-key measurement, each workpiece includes many dimension, the result will show in 1s, greatly shorten measure time, increase the efficiency, can count test qty, automatically.

CAD Import function

Testing requirements: The all dimension of the workpiece Difficulty: Lots of dimensions to be programmed which will takes long time Solution: Choose CAD import function. Import the CAD file, only need few procedures to program all dimensions of the workpiece easily.





CAD import function adapt to Auto CAD and Zhong-Wang different version files. The fast and convenient import function increase the programming efficiency greatly and reduce the technical reliance on the Operators.



Product model		£	CE AND THE PROPERTY OF THE PRO	CC KAR				2			
			~	_	-	-	-			10000000	
	90070	7000 0	\$1010	S2015	S2025	S2030	S2035	SP3020	\$6050	\$4010	
Measurement range (mm)	Wide field		0100x80	ф150×110	200×200	300×210	300x200	194x135	500×400	Ф100×90	
	Small field		1	50x35	130×130	200×135	230x130	162x108	430×350		
	No*	Wide field	±3*®	±5*◎	±3*®	±5*®	±3*①	±2°®	±3·8	±3.①	
	Splicing	Small field	1	±2*®	±1*®	±2.®	±1*®	±0.7*®	±1*8	1	
asurement accuracy (um)	With*1 Splicing	Wide field	,	1	±(5+0.02L)*(9)	±(7+0.02L)*®	±(5+0.02L)*(9)	±(4+0.02L)* ³⁵	±(5+0.02L)* ⁽³⁾	/	
		Small field	1	1	±(3+0.02L)*®	±(4+0.02L)*®	±(3+0.02L)* ⁽⁸⁾	±(2.7+0.02L)*®	±(3*0.02L)*®	,	
Repetition accuracy (µm)	No Splicing	Wide field	±1	±1	±1	±1	±1	±1	±1	±1	
		Small field	- /	±0.5	±0.5	±0.5	±0.5	±0.25	±0.5	7	
pendan accuracy (pm)	With	Wide field	1	1	±2	±2	±2	±2	±2		
	Splicing	Small field	,	1	±1.5	±1.5	±1.5	±1.25	±1.5	7	
reduct dimension (mm)		580x235x790	650x335x885	580×430×790	675×495×885	590x 495x 790	670×500×855	1060x860x1890	790×230×385		
Optical iens		Single-field dual-telecentric lons Dual-field dual-telecentric lons				Dual-field dual-telecentric, lowdiscortion lens+FA lens	Dual-field dual-telecentric lens	Single magnification dual-telecentric lens			
Neight of platform (kg)		Approx.40	Approx.65	Approx.55	Approx.75	Approx.55	Approx.75	Approx.650	Арргок.27		
oad-Bearing(KG)					5		- "	25	3		
Illumination system		Franchisson light: Telecontrol Parallel III, mirroritor (Green light) Surfus light: 4 store medium and lie varige ring lighting (White light) Surfus light: 4 store medium and lie varige ring lighting (White light) Surfus light: Ring (Son sight) I limmirrotting rings; Gossifif get (pottorul). Esi-illumirusting rings; Gossifif get (pottorul). Esi-illumirusting rings;				ghti	transvession light. Telecomin e Fastlel Illum nation (Green light) Sudsec light: 4-space med isse and low angle ring lighting (White light) Sudsec light: Familiam (fow langle) illum nation (groen light) Coasial light. Ep	Transmission light: Teleconinic Parallel (Lumination (Green Light) Surface light: migh angle lighting (white light) Surface light: Assessmouth and low angle might green (White light) Surface light: Assessmouth and low angle might green (White light) Surface light: Assessmouth and light (optional): Epi-diumination (green) Coasial light (optional): Epi-diumination hybrite light)	Telecentric parallel light source (green light)		
easurement data								25 measurement	11.7	11	
utput data								With the function of report output and statistics			
Placement of work piece		Allow free placement of single or multiple work places, and					ize one-key measurement	one-key measurement			
Power requirement			220V~, 50Hz, 600W				, 50Hz, 600W		220V~,50Hz,1400W	220V~, 50Hz, 600W	
vironmental requirement			Temperature: 20°C ±2°C, relative hu midity; 30%-80%, vibration: <0.002g lites than 19Hz								
mark] used on focal position a				More less than 3 kg l	refer to the imposed	of makenast (mm) of the	coordinate platform		Optional petial cosal el light. CAD MES tander function. Automated Optional Chromatic confocal sensor,	ernote control function	
Within ф80 × 54mm		ronment temp, at+20±1°C and coordinate platform less than 2kg,l, refers to the amount of movement (mm) of coordinate platform *@within 16×13mm *@within 270×189mm(6 corners R60) *@webin207×117mm		+13Within 174×121mm	+® Within 16×12mm						
Within ¢80 × 54mm Within ¢120 × 88mm				(2) Within 270×184mm(s corners R6U) +39 Within 207×117mm +(0) Within 35×28mm				*1390thin 174×121mm *1490thin 146×97mm	•39 Within 16 × 12mm «② Within 450 × 360mm		
	×28mm *®within 117×117mm			9 Within 270×180mm + 9 Within 10×6mm					• ® Within 387 × 315mm		

Existing Users of Industrial Smart One-Touch VMS- S1010: 20+ Satisfied Users and 3+ satisfied Customers.





