

QT Instant Video Measuring Machine - Flat Dimensional Fast Measurement Solution

QT200 measuring range: 200x200 mm
 QT300 measuring range: 300x300 mm

QT Instant measuring instrument is an optical measuring instrument designed for fast plane measurement. The measurement system is easy to use with fast speed, can measure multiple pieces of products at one time, while ensuring the accuracy and full size measurement, greatly reduce the measurement time, improve the measurement efficiency.

● **The machine architecture**

The gantry consists of a solid aluminum frame and a moving platform, with a gantry structure mounted directly on the main body of the frame and specially reinforced in structural strength. CCD and telecentric optical system are fixed to prevent vibration while the machine is in operation

● **Light source**

The parallel light source is installed directly below the CCD and fixed on the main structure of the machine to ensure that the CCD receives the parallel light. The workpiece is scanned vertically to complete the size measurement.

● **Measuring platform**

The loading platform of the machine is designed to open on three sides, which is convenient for placing multiple pieces of parts with both hands at the same time. The measuring platform can be extended 100% out of the protective shell for easy integration with the robotic arm. When the machine is not in use for a long time, the measuring platform can also be completely moved into the protective shell to prevent dust accumulation.

● **Software**

Intuitive measurement interface, convenient for the operator to immediately find the workpiece failed detection, and products beyond the tolerance range.

※ No need to accurately place the workpiece under test, the operator can quickly load multiple pieces of workpiece, and the system automatically identifies and measures the product under test.

Automatically collect all necessary data for statistics, and create a report for each single piece of measurement without extra time.

※ Measuring elements: length, distance, inner diameter, outer diameter, Angle, parallelism, symmetry, orthogonality, any geometric measurement of contour, DXF comparison, etc

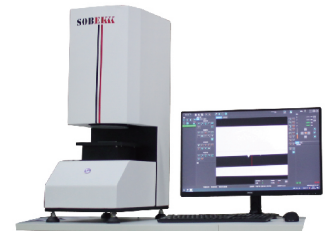
QT uses a non-contact optical system, composed of CCD and parallel contour light, and carries out vertical scanning of the measured workpiece to complete the size measurement. The system generates a high-resolution image, which is then analyzed and measured using powerful software.



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QM Instant Video Measuring Machine Flat Dimensional Fast Measurement Solution

Can complete all the required measurement with a key, including distance, radius, diameter, Angle, true straightness, true roundness, directly feedback on the machine panel whether the measurement results are qualified, accurate and objective quality testing of the production workpiece. Suitable for bearing size, gasket, o-ring size, magnetic material measurement, gear, taper thread, mechanical parts measurement.



QM series specification:

Model	QM40	QM60	QM90	QM110	QM180
Measuring vision field (mm)	42*35mm	65*43mm	90*60mm	110*75mm	180*130mm
Contour measuring accuracy	1.5um	2.0um	2.5um	3.0um	3.5um
Surface measurement accuracy	2um	2.5um	3.5um	4.5um	5.0um
Z-axis focusing range	45mm	55mm	55mm	100mm	100mm
Move device	Z axis electric lifting				
Image sensor	20 megapixel ultra HDMI CMOS sensor				
Display	27 inch HDMI monitor (1920*1024)				
Optical lens barrel	double telecentric lens				
Measurement speed	≤1s(within 20 inch)		≤3s(within 50 inch)		
Light source	circular LED reflective light source				
	coaxial reflection source				
	coaxial transmission light source				

- Large field telecentric lens
- Large measuring range
- 20.0megapixel ultra HDMI CCD
- Advanced light source system, 8 sector surface light, coaxial light, contour light
- Automatic recognition of workpiece
- Simultaneous measurement of multiple workpieces.

QT series specification:

Model	QT200	QT300	QT400
Measuring range(mm)	200*200*100	300*300*100	400*300*100
Field of vision	44*29mm	65*43mm	90*60mm
Accuracy	In-field measurement	2.5um	3.0um
	Coordinate movement	3.5+L/200um	3.5+L/200um
Repeatability	In-field measurement	2.0um	2.0um
	Coordinate movement	3.0+L/200um	3.0+L/200um
Move device	XYZ fully automatic		
XY max speed	300mm/s		
Image sensor	20.0Mpxel ultra HDMI CMOS sensor		
Display	27 inch HDMI monitor(1920*1024)		
Optical lens barrel	double telecentric lens		
Resolution	0.0005mm meta linear scale		
Z axis stroke	100mm		
Light source	LED reflective ring light source		
	coaxial reflection source		
	coaxial transmission light source		
Optional	support high precision measurement mode		

SOBEKK focus on 15 years