KŌSEIDO™

高精度

PRECISION YOU CAN TRUST

VIDEO MEASURING SYSTEMS

ADVANCED MEASUREMENT.
PERFECT RESULTS.

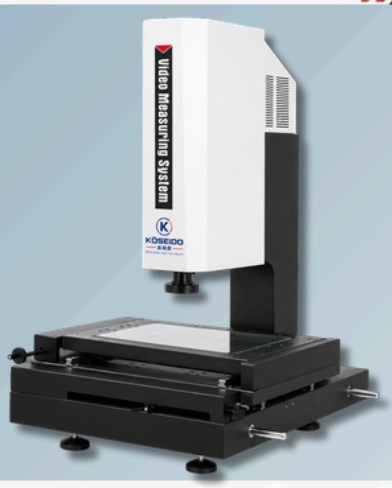
HIGH ACCURACY
Advanced optics & precision mechanics

PRECISE MEASUREMENT
Consistent results you can trust

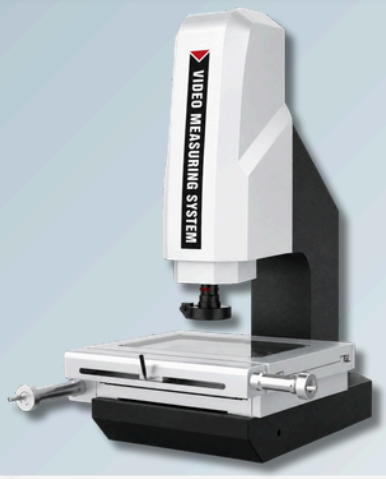
HIGH EFFICIENCY
User-friendly operation for faster inspection

DURABLE & RELIABLE
Built for long-term performance

OUR PREMIUM MEASURING SOLUTIONS



Manual Video Measuring System



Semi-Automatic
Video Measuring System

Fully Automatic
Video Measuring System

PRECISION MEETS PERFORMANCE

Koseido delivers world-class video measuring solutions designed for accuracy, efficiency and reliability across every industry.

ENGINEERED FOR TODAY

PERFORMANCE DRIVEN

QUALITY FOCUSED

TRUSTED WORLDWIDE

Manual Video Measuring System

K-M3-VMS-4030

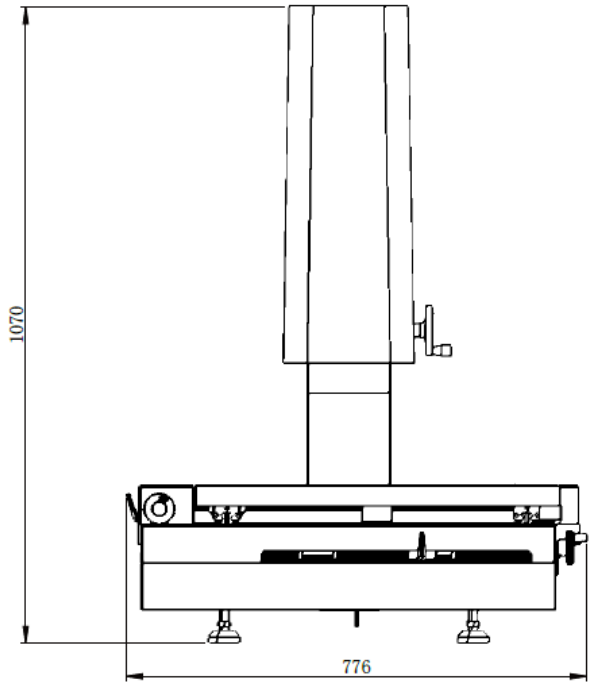
Product Characteristic:

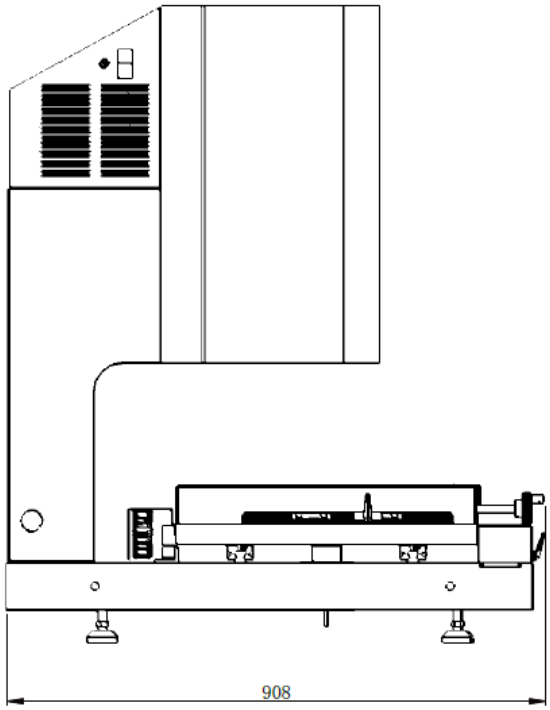
- Adopt granite stone base and column to ensure the stability and precision of the machine;
- Adopt toothless polished rod and fast-moving locking device to ensure that the return error of the table is within 2um;
- Adopt high-precision instrument optical ruler and precision worktable to ensure the accuracy of the machine is within ≤3.0+L/200um;
- Adopt zoom lens and high-resolution color digital camera to ensure clear picture quality without distortion;
- Using the program-controlled surface 4-ring 8-area LED cold illumination and Contour LED Parallel Illumination as well as a built-in intelligent light adjustment module, the area brightness of the light in the 4-ring 8-area can be freely controlled;
- iMeasuring Vision measurement software improves quality control to a new level;
- Optional contact probe and three-dimensional measurement software can be used to upgrade the machine to a contact three-dimensional measuring machine.
- It can be upgraded to install an autofocus function module to achieve accurate semi-automatic measurement.

Technical Specifications：

Commodity	Manual Video Measuring System K-VMS Series
Model	K-M3-VMS-4030
Marble Workbench	(605*450)mm
Glass Workbench	(456*348)mm
X/Y axis Travel	(400*300)mm
Z axis travel	High-precision linear guide, effective travel 200mm
X/Y/Z aixs resolution	0.5um
Pedestal and Uprights	High Precision Granite
Measurement Accuracy*	XY axis: ≤3.0+L/200(um) ; Zais：≤5+L/200(um)
Repart Accuracy	2um
Illumination System (Software Adjustment)	Surface 4 rings and 8 zones infinitely adjustable LED cold Illumination
	Contour LED Parallel Illumination
	Optional Coaxial Light
Digital Camera	1/3"/1.3Mpixel High Resolution Digital Camera
Zoom Lens	6.5X High-Resolution Zoom lens;
	Optical Magnification: 0.7X~4.5X times; Video Magnification: 26X~172X(21.5" Monitor)
Measuring Software	iMeasuring
Operation System	Support WIN 10/11-32/64 Operating System
Language	English
Working Environment	Temperature 20°C±2°C, temperature change <1°C/Hr; Humidity 30%~80%RH; Vibration <0.02g's, ≤15Hz.
Power Supply	AC220V/50Hz; 110V/60Hz
Dimension(WxDxH)	(908*776*1070)mm
Net Weight	283Kg

Product Size





Product Configuration Model Description（Example with K-M3-VMS-4030）

Product Category	Manual Video Measuring System			Semi-auto Video Measuring System	
Sensor Configuration	**2D**	**2.5D**	**3D**	**2.5D**	**3D**
Commodity	2D Video Measuring System	2.5D Video Measuring System	3D Contact & Video Measuring System	2.5D SemiautomaticVideo Measuring System	3D Semiautomatic Contact & Video Measuring System
Model	K-M2-VMS-4030	K-M3-VMS-4030A	K-M3-VMS-4030B	K-M4-VMS-4030C	K-M4-VMS-4030D
Type	------	A	B	C	D
Significance	Optical Zoom-lens Sensor	Optical Zoom-lens Sensor	Zoom-lens Sensor and Contact Probe Sensor	Zoom-lens Sensor and Z-axis Autofocus Function	Zoom-lens Sensor, Contact Probe Sensor and Auto focus Function
Z-axis Auto-focus	Without	Without	Without	With	With
Contact Probe	Without	Without	With	Without	With
Software	iMeasuring2.0	iMeasuring2.1	iMeasuring3.1	iMeasuring2.2	iMeasuring3.2
Operation	Manual	Manual	Manual	Semi-auto	Semi-auto

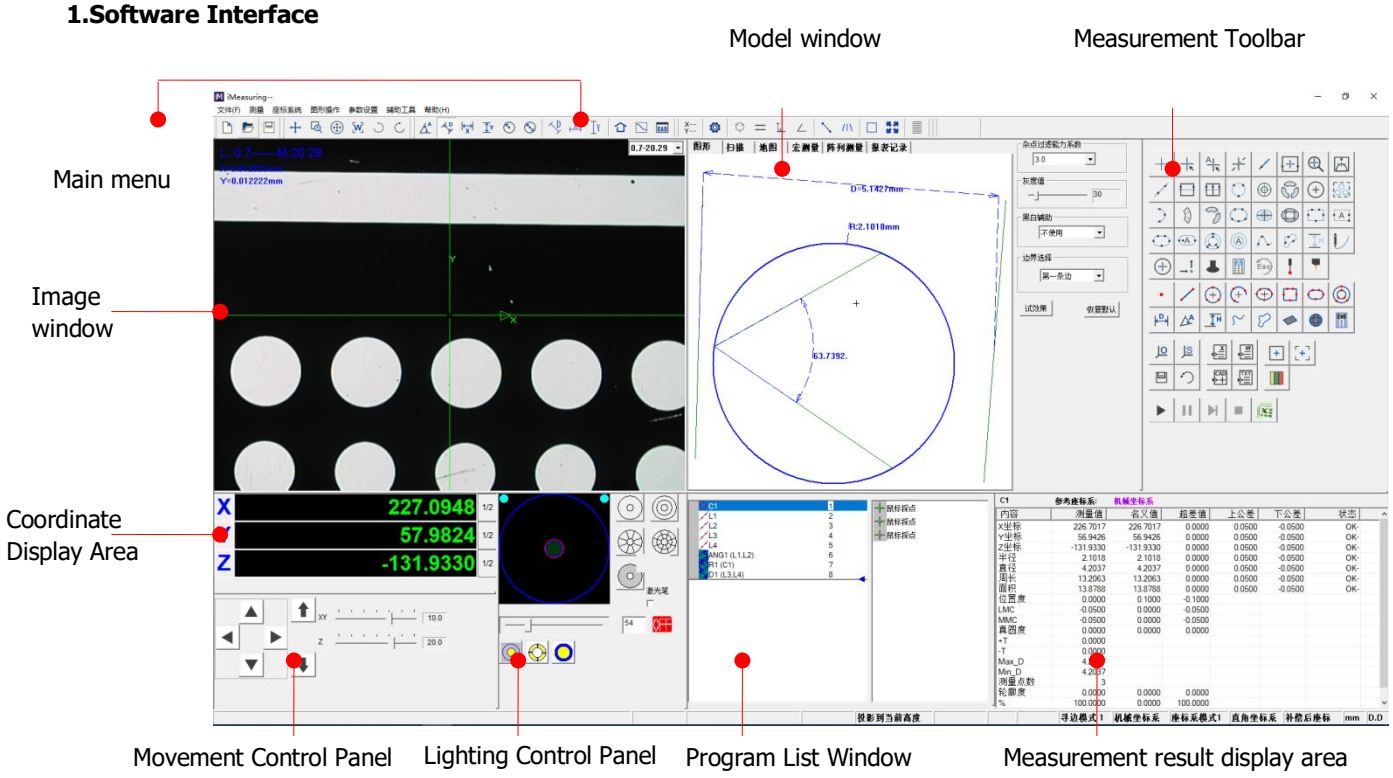
The Measuring Space of K-M3-VMS Series of Manual Video Measuring System

Travel mm	Model	X Axis Travel mm	Y Axis Travel mm	Z Axis Standard Travel mm	Z-axis Maximum Customized Travel mm
150x100x100	K-M2-VMS-1510	150	100	100	------
200x100x100	K-M2-VMS-2010	200	100	100	200
250x150x200	K-M3-VMS-2515	250	150	200	300
300x200x200	K-M3-VMS-3020	300	200	200	400
400x300x200	K-M3-VMS-4030	400	300	200	400
500x400x200	K-M3-VMS-5040	500	400	200	400

Software Introduction:

iMeasuring vision measurement software is a digital measurement software for geometric coordinate measurement based on Windows system. It supports image non-contact measurement, laser and confocal probe non-contact measurement and probe contact measurement. According to ISO, GPS, ASME geometric dimensions and tolerances Standard, digital measurement of linear and geometric dimensions such as shape, orientation, and position of part entities.

1.Software Interface



2. Geometric measurement:

- [2D Elements]: Point, Line, Circle, Arc, Curve, Keyway, Rectangle, Ellipse, Ring, Contour Scan.
  Features: Lines, circles and arcs can be automatically identified and measured. For workpieces that need to find the highest point, extreme value measurement can be realized.
- [3D Elements]: Plane, Sphere, Cone, Cylinder, Groove.
  Features: The operation interface is simple and easy to understand, covering common 3D elements. Realize the construction of points, lines, circles, arcs, ellipses, rectangles, grooves, rings, distances, angles, heights, open curves, closed curves, planes, cones, cylinders, and spheres.

3. Measurement Toolbar:

Realize point measurement, line measurement, circle measurement, arc measurement, ellipse measurement, rectangle measurement, groove measurement, ring measurement, curve measurement, contour measurement, height measurement, etc.

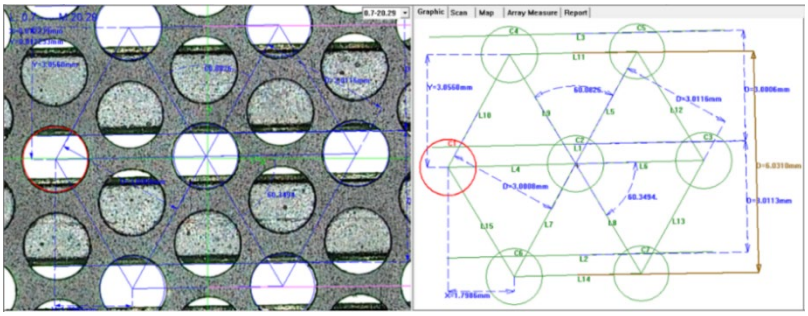
Provide a variety of measurement methods for different points Provide a variety of line and circle measurement methods

Provide various measurement methods of arc, ellipse and rectangle, provide various measurement methods of groove, ring and curve, as well as image height measurement and contour scanning functions

Provide machine through point settings to ensure safe operation of the machine

4. Construction toolbar

- Guided by element type, it provides a variety of element construction functions such as translation, rotation, extraction, combination, parallel, vertical, mirroring, symmetry, intersection, and tangent.
- Construct midpoints, intersections, lines, circles, arcs, ellipses, rectangles, grooves, O-rings, distances, angles, heights, open clouds, closed clouds, planes, calculation functions, and more.



5. Multiple Sensor Configurations:

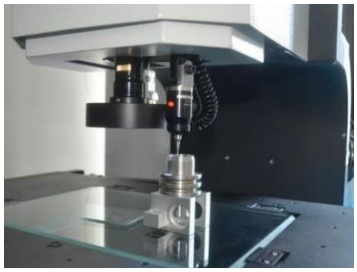
5.1 Optical imaging

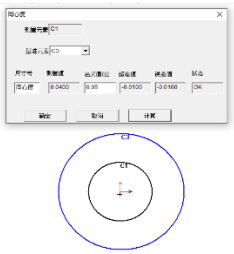
2D: distance (maximum distance, minimum distance, average distance), angle, diameter, radius, cone angle, height; Straightness, flatness, roundness, perpendicularity, inclination, parallelism, symmetry, concentricity, position, point profile, curve profile.

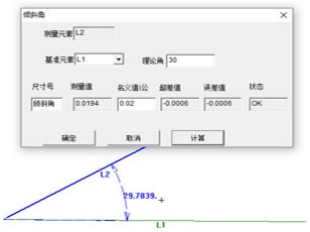
5.2 Touch Probes

3D: distance, angle, diameter, radius, cone angle, height;

Straightness, flatness, roundness, cylindricity, perpendicularity, inclination, parallelism, symmetry, concentricity, position, point profile, curve profile.







Recommended computer configuration: OPTIONAL

The core of the Vision Measuring Machine is the control system and measurement software, and the computer system is the core carrier of all operations, requiring high stability and compatibility. Configure any high-performance desktop and an authorized operating system to solve your worries. For example:

Processor: Intel G6405 Processor
Memory: 8 GB DDR4 2666 MHz RAM
Storage: M.2 2280 NVMe 250 GB SSD
Graphics: Intel UHD Graphics
Expansion: PCIe Dual Network Port Card
Monitor: 21.5-inch Display
Operating System: Windows 10 (64-bit)
Power Supply: 100–240V Adaptive Power Supply

For More Information

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