



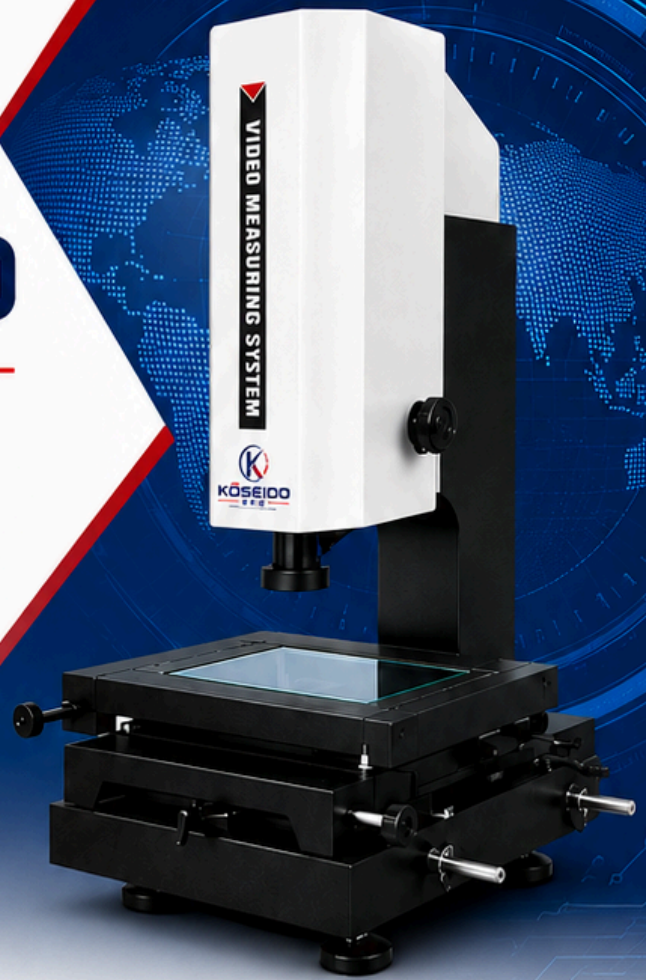
KOSEIDO

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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

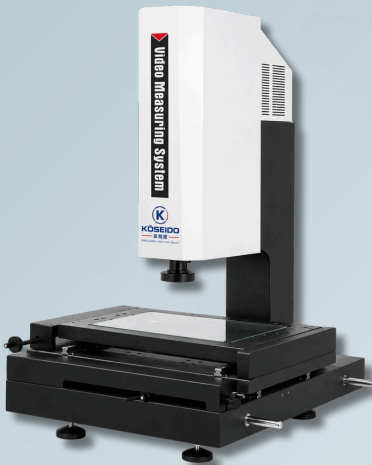
User-friendly operation
for faster inspection



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



Video Measuring System

K-M2-VMS Series



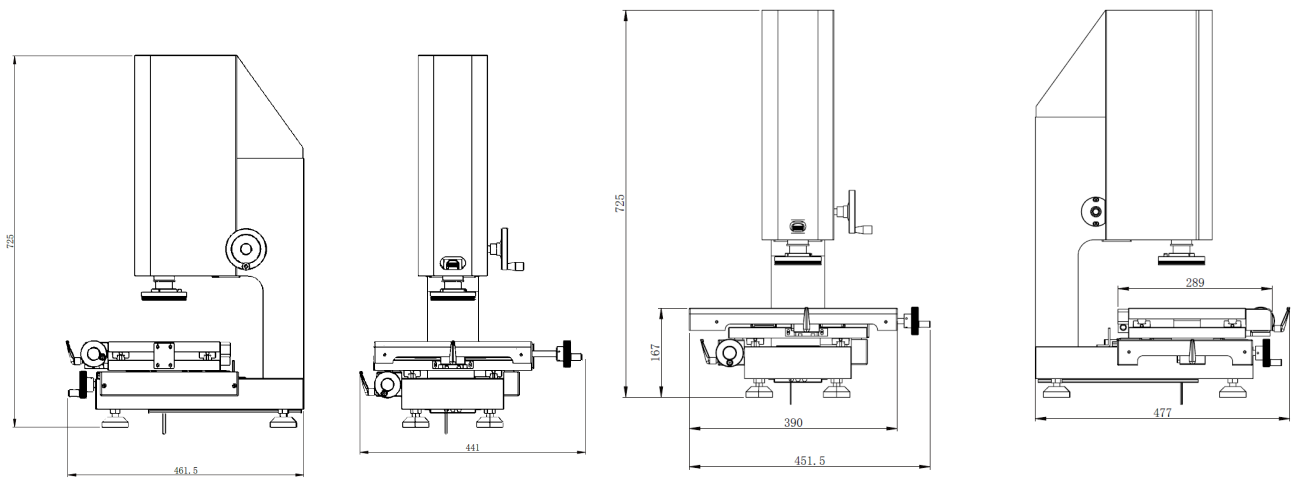
Product Characteristic:

- 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 $\leq 3.0 + L/200\mu\text{m}$;
- Adopt zoom lens and high-resolution color digital camera to ensure clear picture quality without distortion;
- Adopt program-controlled 3-ring single-zone LED cold surface light source and transmissive LED parallel light source, as well as built-in intelligent light adjustment module, can freely control the brightness of the light in the 3-ring single zone area;
- With iMeasuring Vision measurement software which improves quality control to a new level.

Technical Specifications :

Commodity	Manual Video Measuring System	
Model	K-M2-VMS-1510	K-M2-VMS-2010
Granite Workbench	(310*220)mm	(390*220)mm
Glass Workbench	(179.5*129.5)mm	(229.5*129.5)mm
X/Y axis travel	(150*100)mm	(200*100)mm
Z axis travel	Effective travel 100mm (Linear scale for Z axis is optional)	
X/Y Linear Scales	Resolution: 0.5um	
Base and Column	Precision Granite	
Measurement Accuracy*	E1x,y: 2.5+L/200; E1xy: 3+L/200	
Repeat Accuracy	2um	
Illumination System (Software-controlled)	3-ring single-zone LED cold surface light	
	Transmissive LED parallel light	
	Optional coaxial light	
Camera	1/2.9"/1.6Mpixel High Resolution Digital Camera	
Zoom Lens	6.5X High-Resolution Zoom lens	
	Optical Magnification: 0.7X~4.5X, Video Magnification: 26X~172X (21.5" Monitor)	
Measuring Software	iMeasuring	
Operation System	Support Win 10/11-32/64 Operating System	
Language	English	
Working Condition	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)	(462*441*725)mm	(477*452*725)mm
Gross/Net Weight	60/48Kg	65/50Kg

Product Size



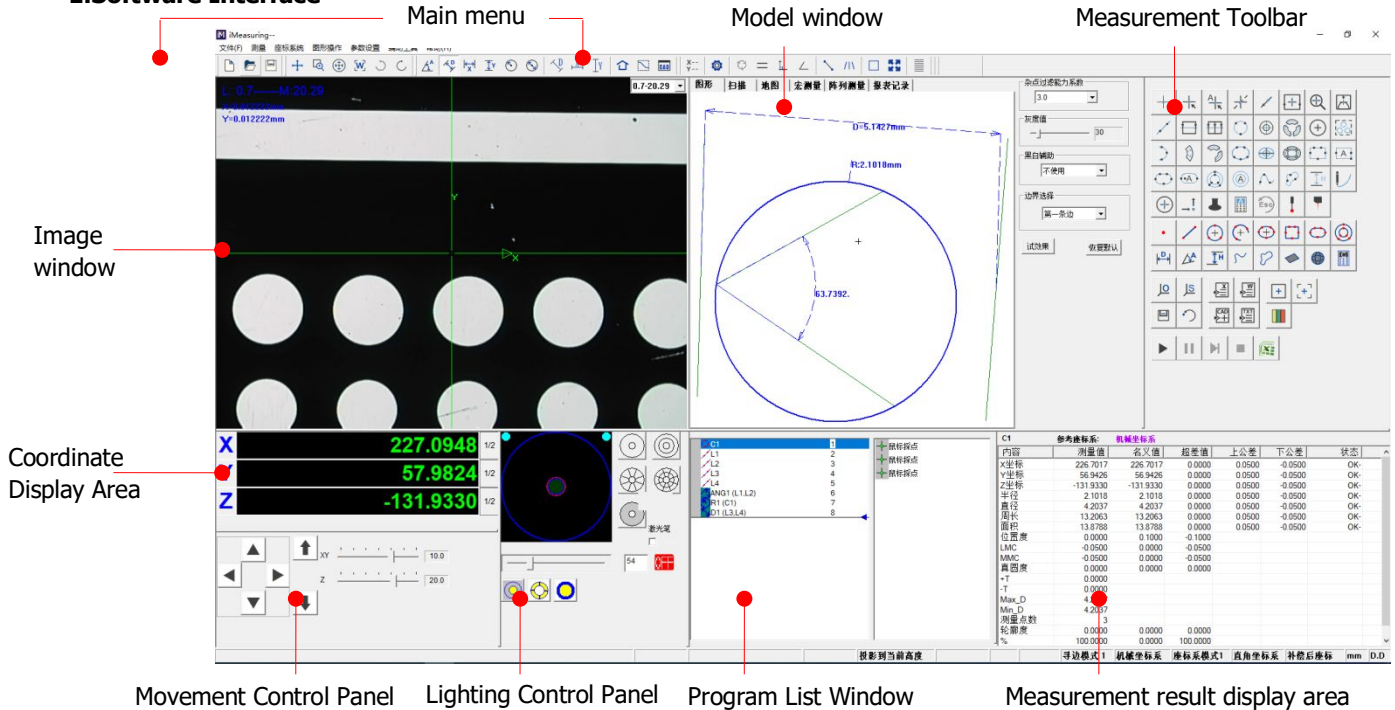
K-M2-VMS-1510

K-M2-VMS-2010

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

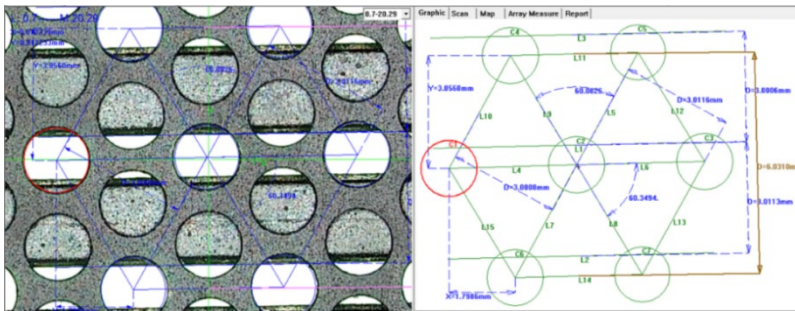


Provide machine through point settings to ensure safe operation of the machine

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.



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

Manual Video Measuring System

K-M3-VMS-2515



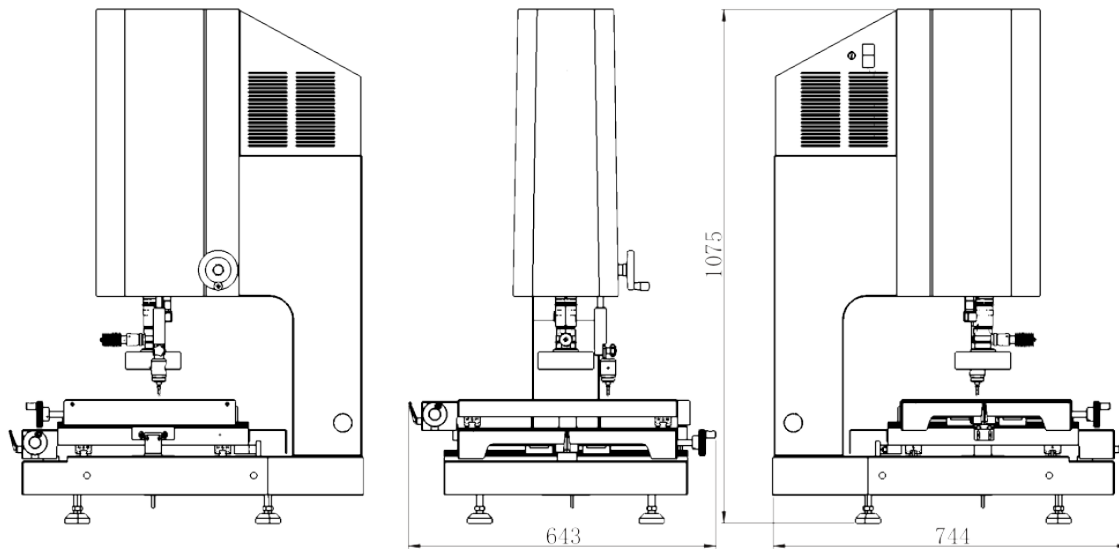
Product Characteristic:

- 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 $\leq 3.0 + L/200\mu\text{m}$;
- 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-2515
Marble Workbench	(505*350)mm
Glass Workbench	(356*248)mm
X/Y axis Travel	(300*200)mm
Z axis travel	High-precision linear guide, effective travel 200mm
X/Y/Z aixe resolution	0.5um
Pedestal and Uprights	High Precision Granite
Measurement Accuracy*	XY axis: $\leq 3.0 + L/200(\mu m)$; Zais : $\leq 5 + L/200(\mu m)$
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)	(744*643*1075)mm
Gross/Net Weight	275/208Kg

Product Size



Product Configuration Model Description (Example with K-M3-VMS-2515)

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 Semiautomatic Video Measuring System	3D Semiautomatic Contact & Video Measuring System
Model	K-M2-VMS-2515	K-M3-VMS-2515A	K-M3-VMS-2515B	K-M4-VMS-2515C	K-M4-VMS-2515D
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 Autofocus 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-2515	300	200	200	400
400x300x200	K-M3-VMS-4030	400	300	200	400
500x400x200	K-M3-VMS-5040	500	400	200	400

Manual Video Measuring System

K-M3-VMS-3020



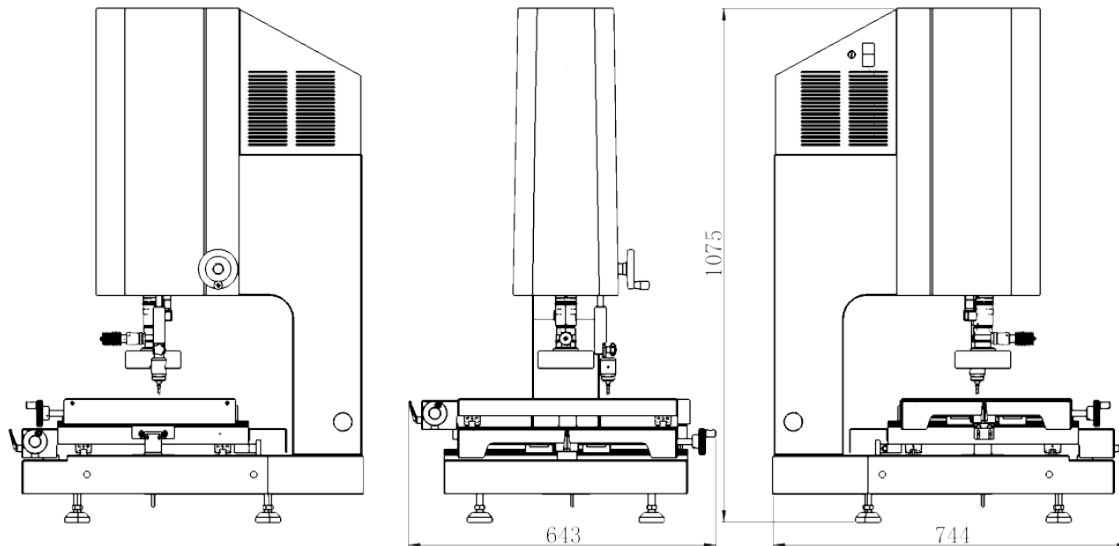
Product Characteristic:

- 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 $\leq 3.0 + L/200\mu\text{m}$;
- 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-3020
Marble Workbench	(505*350)mm
Glass Workbench	(356*248)mm
X/Y axis Travel	(300*200)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: $\leq 3.0 + L/200(\mu m)$; Zais : $\leq 5 + L/200(\mu m)$
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)	(744*643*1075)mm
Gross/Net Weight	275/208Kg

Product Size



Product Configuration Model Description (Example with K-M3-VMS-3020)

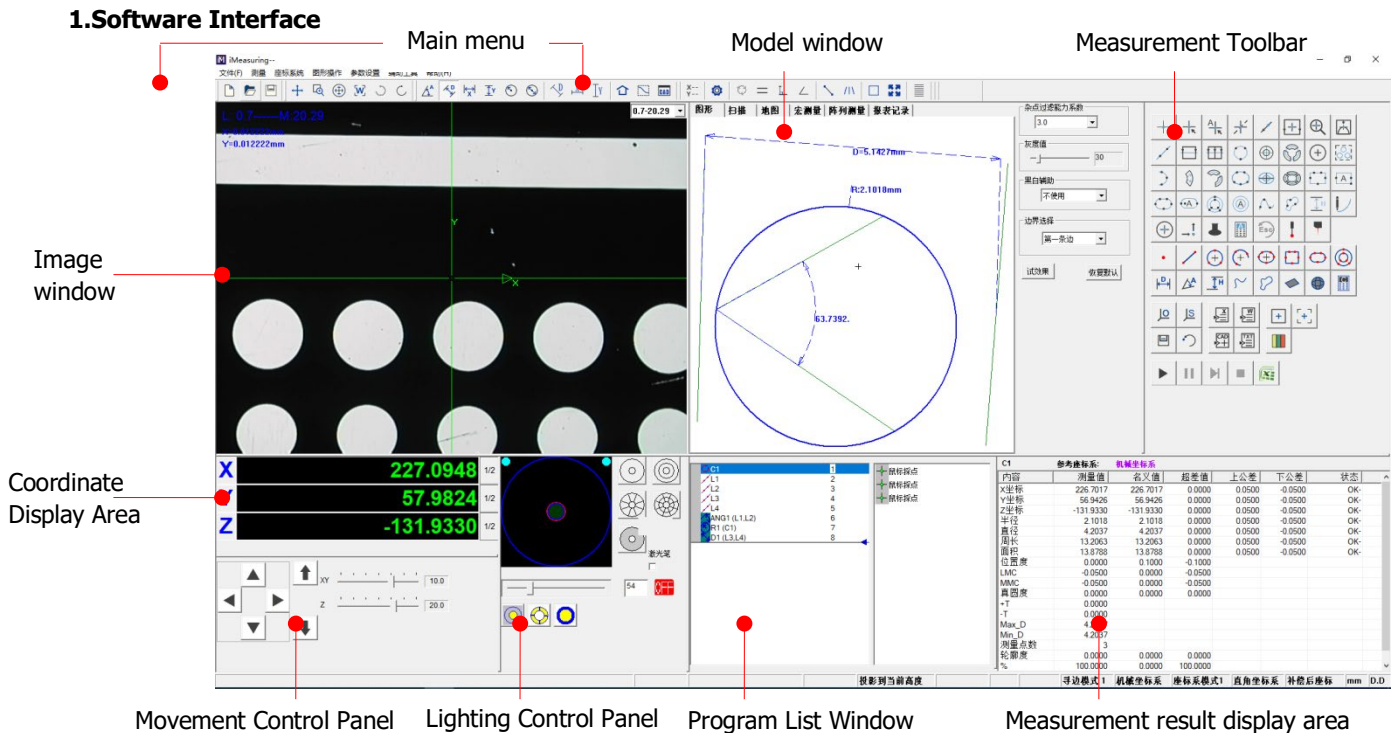
Product Category	Manual Video Measuring System			Semi-auto Video Measuring System	
Sensor Configuration	2D	2.5D	3D	2.5D	3D
Commodity	2D Video Measuring System	2.5D Video Measuring System	3D Contact & Video Measuring System	2.5D Semiautomatic Video Measuring System	3D Semiautomatic Contact & Video Measuring System
Model	K-M2-VMS-3020	K-M3-VMS-3020A	K-M3-VMS-3020B	K-M4-VMS-3020C	K-M4-VMS-3020D
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 Autofocus 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.



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:

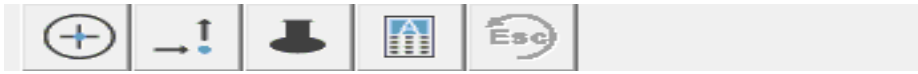
Realize point measurement, line measurement, circle measurement, arc measurement, ellipse measurement, rectangle measurement, groove measurement, ring measurement, curve measurement, contour measurement, height measurement, etc.



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

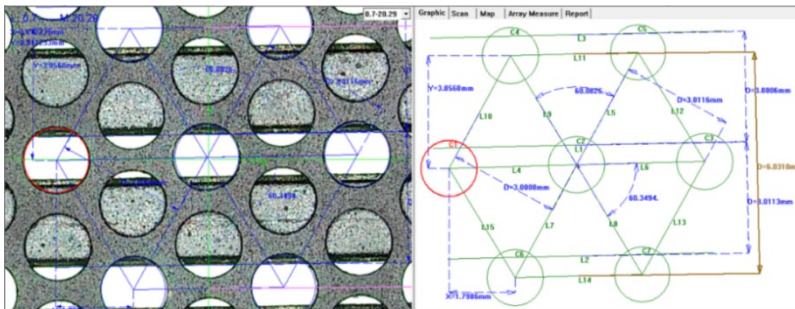


Provide machine through point settings to ensure safe operation of the machine

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.



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

Manual Video Measuring System

K-M3-VMS-4030



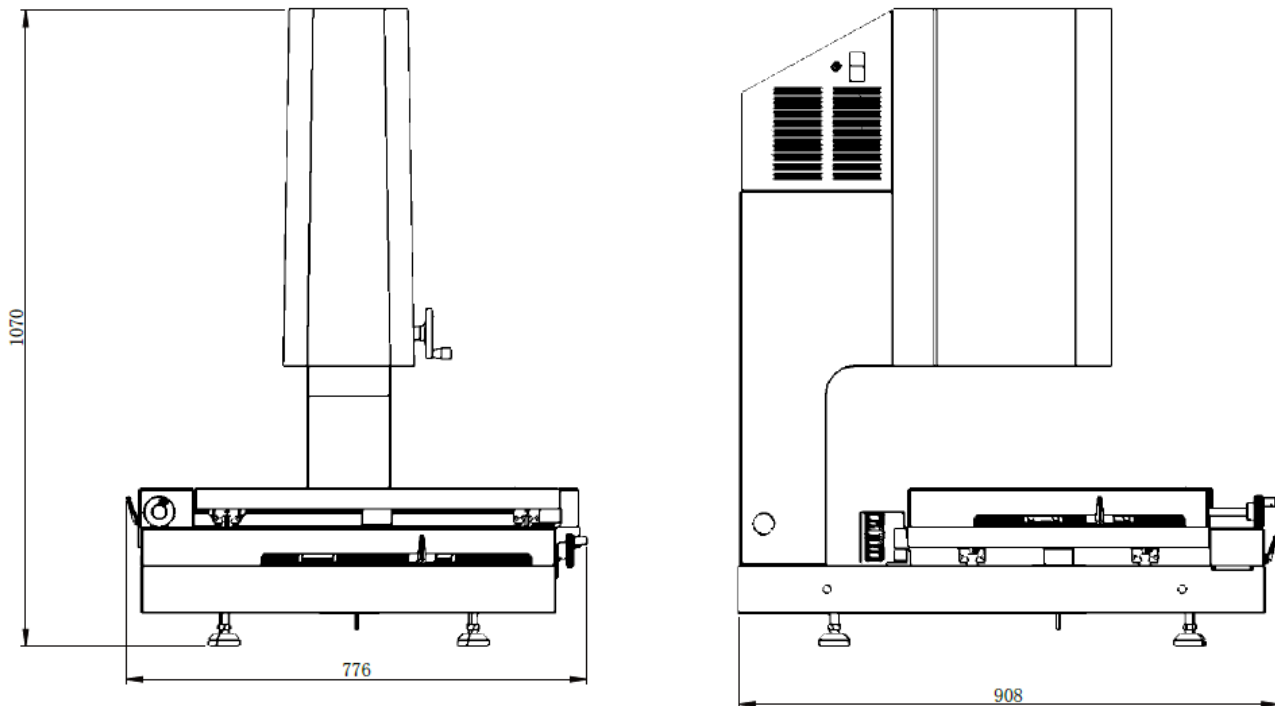
Product Characteristic:

- 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 $\leq 3.0 + L/200\mu\text{m}$;
- 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 axis resolution	0.5um
Pedestal and Uprights	High Precision Granite
Measurement Accuracy*	XY axis: $\leq 3.0 + L/200(\mu m)$; Z axis : $\leq 5 + L/200(\mu m)$
Repeat 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 Semiautomatic Video 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 Autofocus 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

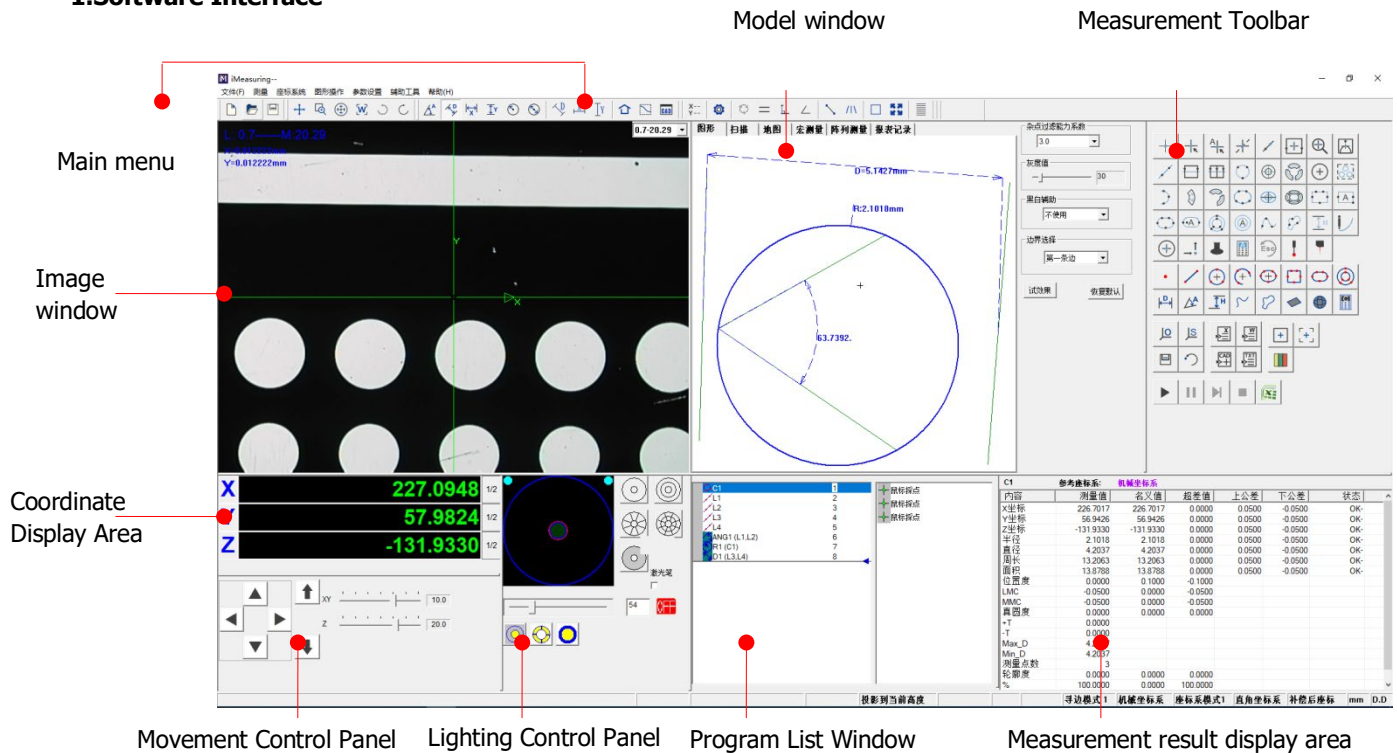
The Measuring Space of K-M3-VMS Series of Manual Video Measuring System

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:

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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

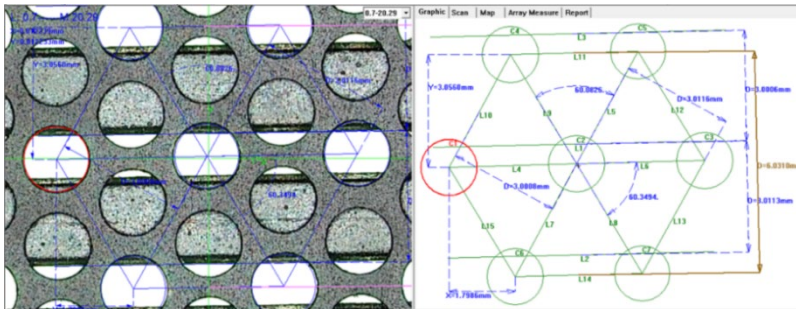


Provide machine through point settings to ensure safe operation of the machine

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.



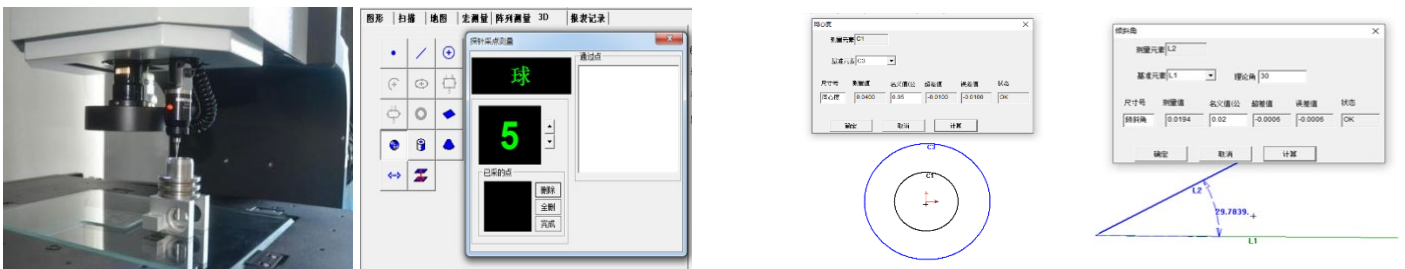
5. Multiple Sensor Configurations:

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

Manual Video Measuring System K-M3-VMS-5040



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 $\leq 3.0 + L/200\mu\text{m}$;
- 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-5040
Marble Workbench	(705*550)mm
Glass Workbench	(556*448)mm
X/Y axis Travel	(500*400)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: $\leq 3.0 + L/200(\mu m)$ □ Zais □ $\leq 5 + L/200(\mu m)$
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 Manual 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)	(1108*876*1070)mm
Net Weight	283Kg

Product Configuration Model Description (Example with K-M3-VMS-5040)

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 Semiautomatic Video Measuring System	3D Semiautomatic Contact & Video Measuring System
Model	K-M2-VMS-5040	K-M3-VMS-5040A	K-M3-VMS-5040B	K-M4-VMS-5040C	K-M4-VMS-5040D
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

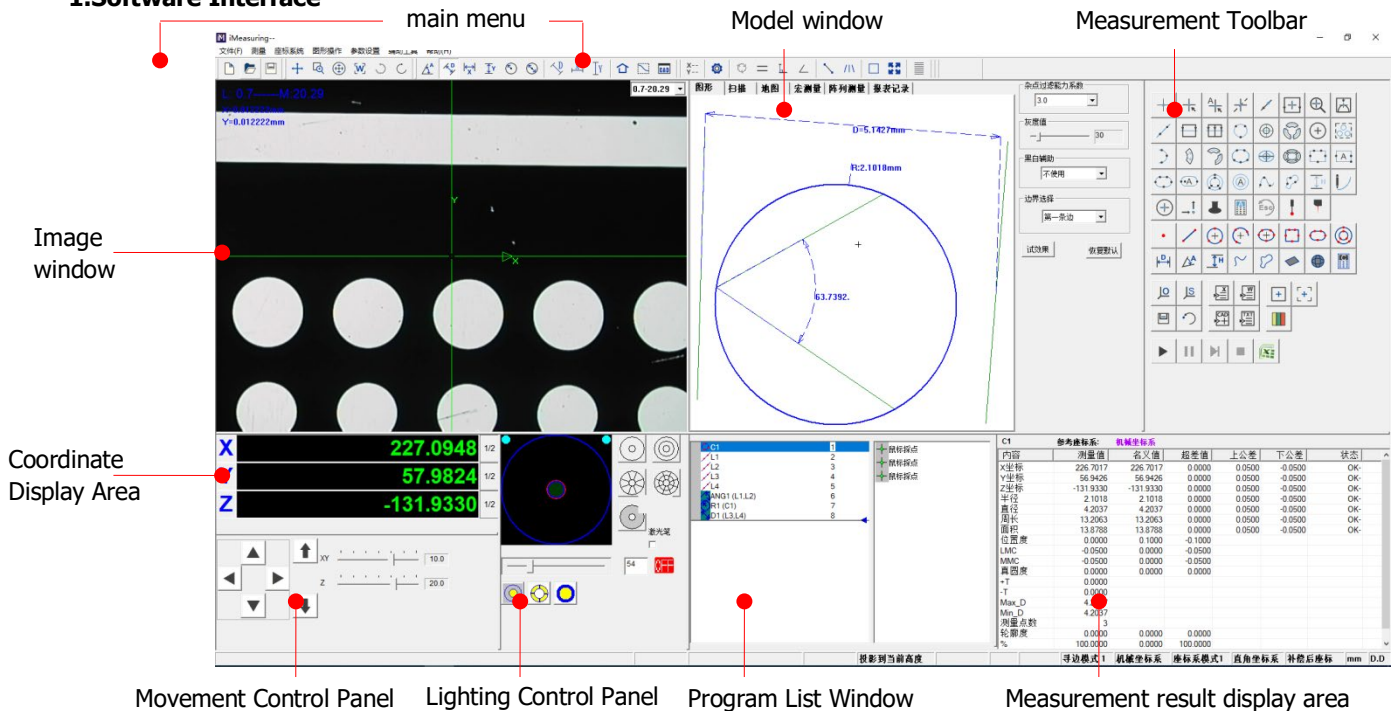
The Measuring Space of K-M3-VMS Series of Manual Video Measuring System

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

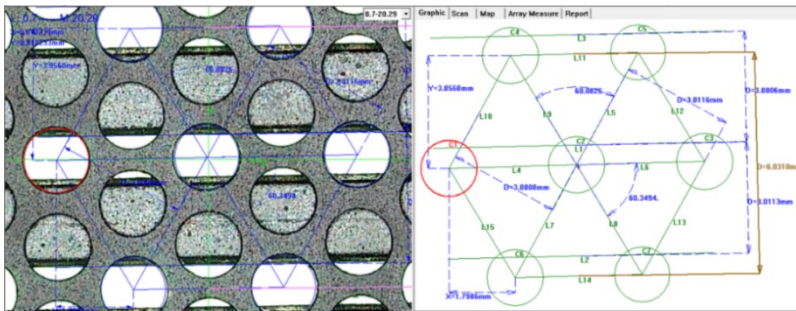


Provide machine through point settings to ensure safe operation of the machine

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:

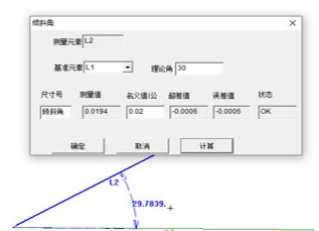
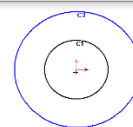
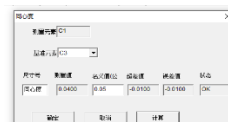
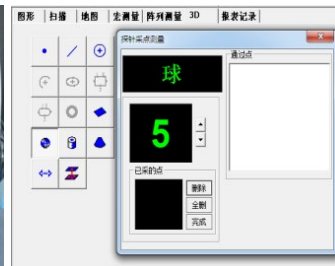
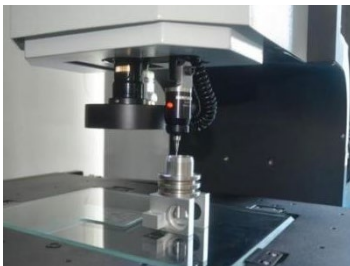
5.1 Optical imaging

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

Semi-automatic Video Measuring System

K-M4-VMS Series



K-M4-VMS-2515/3020/4030/5040/6050

Product Characteristic:

- High-precision granite worktable/base/column and optical scale integrated with precision worktable for exceptional machine stability and accuracy;
- High-definition zoom lens and high-resolution color digital camera for distortion-free clear imaging;
- Programmable 4-ring 8-zone LED ring surface light source and parallel LED transmission light source with built-in intelligent light adjustment module for independent brightness control of each zone;
- Z-axis driven by AC servo motor module with software-analyzed auto focus for high-definition imaging and precise semi-automatic measurement;
- Powerful image measurement software for elevated quality control.

Technical Specifications :

Specifications	K-M4-VMS-2515	K-M4-VMS-3020	K-M4-VMS-4030	K-M4-VMS-5040	K-M4-VMS-6050
X/Y Axis Travel (mm)	250×150	300×200	400×300	500×400	600×500
Dimension (L×W×H) mm	744×643×1075	744×643×1075	908×776×1070	1108×876×1070	1420×1258×1730
Weight (Kg)	208	208	283	352	800
Measurement Accuracy E1 x,y (μm)	3.0+L/200	3.0+L/200	3.0+L/200	3.0+L/200	3.0+L/200
Measurement Accuracy E2 xy (μm)	4.0+L/200	4.0+L/200	4.0+L/200	4.0+L/200	4.0+L/200
Measurement Accuracy E1 z (μm)	5.0+L/200	5.0+L/200	5.0+L/200	5.0+L/200	5.0+L/200
Repeatability	±2μm	±2μm	±2μm	±2μm	±2μm

Parameter	Specification
Table Load Capacity	0~20Kg (Max: 40Kg)
Z Axis Travel (mm)	200mm (Customized 300/400mm)
X/Y/Z 3-Axis Grating Ruler	High-precision Glass Liner Scale, Resolution: 0.5μm
X/Y/Z Axis Operation Mode	X/Y Axes: Manual; Z Axis: Autofocus
Motion Control	420 Motion Controller – Linear Guide – 0.5μm Special Grating Ruler
Camera	1/3" High-resolution Digital Camera
Video System	Zoom745 Fixed Magnification Optical Lens (Optional Coaxial Light Lens Upgrade)
Optical Magnification	0.7X~4.5X, Video Magnification: 26X~169X (21.5" Display)
Surface Illumination	4-Ring 8-Zone LED Ring Surface Light, 0~255 Level Stepless Adjustable
Contour Illumination	Telecentric Parallel LED Contour Bottom Light, 0~255 Level Stepless Adjustable

Coaxial Illumination	Optional High-brightness LED Coaxial Surface Light, 0~255 Level Stepless Adjustable
Measuring Software	Manual Vision Measurement Software
Working Environment	Temperature: 20°C; Temperature Change: <1°C/hr; Humidity: 30%~80% RH; Vibration: <0.02g, ≤15Hz
Power Supply	220V/50Hz; 110V/60Hz

- **Measurement Accuracy Explanation:**

L: Measured length

The above accuracy is verified with standard gauge blocks or standard line scales as measurement objects.

In practical applications, the Z-axis focusing accuracy largely depends on the roughness and reflective characteristics of the workpiece surface.

- **Magnification Explanation:**

The indicated magnification is for reference only. The actual observation effect varies with the final selected display size and resolution. Auxiliary objective lenses or APO attachment lenses can be optionally configured to meet specific measurement requirements.

Optional Sensors

- **2D Optical Lens Options**

Electronic Feedback | Lens Zoom745EF

Fixed Magnification Coaxial Light | Lens

Zoom745C

- **3D Contact Probe Options**

Imported Contact Probe | MCP

Contact Probe | KSIG-A-5000

High Precision Manual Vision Measuring Machine

K-M5-iVision Series



Product Characteristic□

- Adopt high-precision granite base and column to ensure the stability and precision of the machine;
- Adopt high-precision 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 $\leq 2.5+L/200\mu\text{m}$;
- Adopt high-definition 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.

Specifications:

Commodity		High Precision Manual Vision Measuring Machine K-M5-iVision Series				
Model		K-M5-iMS-2010	K-M5-iMS-2515	K-M5-iMS-3020	K-M5-iMS-4030	K-M5-iMS-5040
Marble Workbench		(270*350)mm	(408*308)mm	(458*358)mm	(608*470)mm	(650*580)mm
Glass Workbench		(142*242)mm	(306*198)mm	(356*248)mm	(456*348)mm	(540*440)mm
X/Y axis Travel		(200*100)mm	(250*150)mm	(300*200)mm	(400*300)mm	(500*400)mm
Z axis travel		High-precision linear guide, effective travel 200mm				
X/Y/Z axes resolution		0.5um				
Pedestal and Uprights		High Precision Granite				
Measurement Accuracy *	E1x,y	2.5+L/200(um)				
	E1xy	3+L/200(um)				
	E1z	4+L/200(um)				
Repeat 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		1/2.9"/1.6Mpixel High Resolution Digital Camera				
Zoom Lens		6.5X High-Resolution Electronic feedback zoom lens, Optical Magnification: 0.7X~4.5X ; Video Magnification: 20X~129X				
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)		(677*552*998)mm	(790*617*1000)mm	(838*667*1000)mm	(1002*817*1043)mm	(1111*867*1086)mm
Packaging Dimension (WxDxH)		(1030*780*1260) mm	(1030*780*1260) mm	(1030*780*1260) mm	(1130*1000*1270) mm	(1250*1035*1460) mm
Gross/Net Weight		220/150Kg	242/175Kg	275/185Kg	449/350Kg	550/380Kg

Note

- "L" represents the measured length in millimeters, and the mechanical accuracy of the Z-axis is highly dependent on the focusing accuracy and the surface of the workpiece.
- Customers can choose to add a 0.5X or 2X auxiliary lens according to their needs to achieve image magnification.
- K-M5-iMS-2010/4030/5040 are workbenches made of marble, while K-M5-iMS-2515/3020 are workbenches made of metal.

Product Configuration Model Description (Example with K-M5-iMS-3020):

Sensor Configuration	2.5D	3D	2.5D	3D
Commodity	2.5D Vision Measuring Machine	3D Contact & Vision Measuring Machine	2.5D Semiautomatic Vision Measuring Machine	3D Semiautomatic Contact & Vision Measuring Machine
Model	K-M5-iMS-3020A	K-M5-iMS-3020B	K-M6-iMS-3020C	K-M6-iMS-3020D
Type	A	B	C	D
Significance	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 Autofocus Function
Z-axis Auto-focus	Without	Without	With	With
Contact Probe	Without	With	Without	With
Software	iMeasuring2.1	iMeasuring3.1	iMeasuring2.2	iMeasuring3.2

Manual Vision Measuring Machine Travel Guide Table:

Travel mm	Model	X Axis Travel mm	Y Axis Travel mm	Z Axis Standard Travel mm	Z Axis Maximum Customized Travel mm
200x100x200	K-M5-IMS-2010	200	100	200	300
250x150x200	K-M5-IMS-2515	250	150	200	300
300x200x200	K-M5-IMS-3020	300	200	200	400
400x300x200	K-M5-IMS-4030	400	300	200	400
500x400x200	K-M5-IMS-5040	500	400	200	400

◆ Other travel specifications can be customized according to customer needs

High Precision Semi-automatic Vision Measuring Machine

K-M6-iSemi Series



Product Characteristic:

- Adopt high-precision granite base and column to ensure the stability and precision of the machine;
- Adopt high-precision 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 $\leq 2.5+L/200\mu\text{m}$;
- Adopt high-definition 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;
- The Z-axis uses high-precision linear guides and servo motor control system to achieve automatic focusing, eliminate human focusing errors, and improve measurement accuracy and stability;
- Optional contact probe and three-dimensional measurement software can be used to upgrade the machine to a contact three-dimensional measuring machine.

Specifications:

Commodity		High Precision Semi-automatic Vision Measuring Machine K-M6-iSemi Series				
Model		K-M6-IMS-2010	K-M6-IMS-2515	K-M6-IMS-3020	K-M6-IMS-4030	K-M6-IMS-5040
Marble Workbench		(270*350)mm	(408*308)mm	(458*358)mm	(608*470)mm	(650*580)mm
Glass Workbench		(142*242)mm	(306*198)mm	(356*248)mm	(456*348)mm	(540*440)mm
X/Y axis Travel		(200*100)mm	(250*150)mm	(300*200)mm	(400*300)mm	(500*400)mm
Z axis travel		High-precision linear guide, effective travel 200mm				
X/Y/Z axis resolution		0.5um				
Pedestal and Uprights		High Precision Granite				
Measurement Accuracy*	E1x,y	2.5+L/200(um)				
	E1xy	3+L/200(um)				
	E1z	4+L/200(um)				
Repeat 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		1/2.9"/1.6Mpixel High Resolution Digital Camera				
Zoom Lens		6.5X High-Resolution Electronic feedback zoom lens, Optical Magnification: 0.7X~4.5X ; Video Magnification: 20X~129X				
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)		(677*552*998)mm	(790*617*1000)mm	(838*667*1000)mm	(1002*817*1043)mm	(1111*867*1086)mm
Packaging Dimension(WxDxH)		(1030*780*1260)mm	(1030*780*1260)mm	(1030*780*1260)mm	(1130*1000*1270)mm	(1250*1035*1460)mm
Gross/Net Weight		220/150Kg	242/175Kg	275/185Kg	449/350Kg	550/380Kg

Note:

- "L" represents the measured length in millimeters, and the mechanical accuracy of the Z-axis is highly dependent on the focusing accuracy and the surface of the workpiece.
- The magnification is an approximate value and is closely related to the size and resolution of the display.

- Customers can choose to add a 0.5X or 2X auxiliary lens according to their needs to achieve image magnification.
- K-M6-iMS-2010/4030/5040 are workbenches made of marble, while K-M6-iMS-2515/3020 are workbenches made of metal.

Product Configuration Model Description (Example with K-M6-iMS-3020):

Sensor Configuration	2.5D	3D	2.5D	3D
Commodity	2.5DVision Measuring Machine	3D Contact & Vision Measuring Machine	2.5D Semiautomatic Vision Measuring Machine	3D Semiautomatic Contact & Vision Measuring Machine
Model	K-M5-iMS-3020A	K-M5-iMS-3020B	K-M6-iMS-3020C	K-M6-iMS-3020D
Type	A	B	C	D
Significance	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 Autofocus Function
Z-axis Auto-focus	Without	Without	With	With
Contact Probe	Without	With	Without	With
Software	iMeasuring2.1	iMeasuring3.1	iMeasuring2.2	iMeasuring3.2

Manual Vision Measuring Machine Travel Guide Table:

Travel mm	Model	X Axis Travel mm	Y Axis Travel mm	Z Axis Standard Travel mm	Z Axis Maximum Customized Travel mm
200x100x200	K-M6-IMS-2010	200	100	200	300
250x150x200	K-M6-IMS-2515	250	150	200	300
300x200x200	K-M6-IMS-3020	300	200	200	400
400x300x200	K-M6-IMS-4030	400	300	200	400
500x400x200	K-M6-IMS-5040	500	400	200	400

- ◆ Other travel specifications can be customized according to customer needs

Cantilever Automatic Video Measuring System

K-V3-VAS Series



K-V3-VAS-322/432/542/652

The K-V3-VAS Fully Automatic Vision Measuring Machine integrates 3-axis automation, auto focus and programmable light source, and is paired with professional fully automatic image measurement software to provide you with a precise and efficient solution for geometric tolerance measurement.

Product Characteristic:

- Precision full-closed-loop AC servo control system combined with natural granite structural components ensures ultra-stable measurement process;
- Standard configuration with high-definition 6.5X fixed magnification optical lens, digital camera and programmable light source for what-you-see-is-what-you-measure measurement;
- Optional expandable sensors including auto zoom coaxial light lens, contact probe, spectral confocal laser probe and 3D camera for enhanced measurement applications;
- Powerful image measurement software with flexible expandability enables highly efficient automated measurement.

Specifications:

Commodity		Automatic Video Measuring System K-V3-VAS Series			
Model		K-V3-VAS-322	K-V3-VAS-432	K-V3-VAS-542	K-V3-VAS-652
X/Y Axis Travel (mm)		300*200	400*300	500*400	600*500
Dimension (L*W*H)/mm		789*636*1640	1033*820*1685	1213*940*1705	1453*1120*1725
Weight (Kg)		396	466	560	796
Measurement Accuracy (um)	E1x, y	2.5+L/200	2.5+L/200	3.0+L/200	3.0+L/200
	E2xy	3.0+L/200	3.0+L/200	4.0+L/200	4.0+L/200
	E1z	4.0+L/200	5.0+L/200	5.0+L/200	5.0+L/200
Repeatability		±2um	±2um	±2.5um	±3um
Table Load Capacity		0~30Kg (Max: 50Kg)			
Z Axis Travel (mm)		200 (Customized 300/400mm)			
X/Y/Z 3-Axis Grating Ruler		High-precision Glass Liner Scale, Resolution: 0.5μm			
X/Y/Z Axis Operation Mode		Joystick, Mouse, Programmable Automatic Measurement			
Motion Control		10 Motion Controller - AC Servo Motor - P-class Linear Guide - C7 Rolled Ball Screw - 0.5μm Grating Ruler for Automatic Machine			
Video System		1/3 " High Resolution Digital Camera			
		Zoom745 Fixed Magnification Optical Lens (Optional Upgrade to Other Auto Zoom Coaxial Light Lenses)			
		Optical Magnification: 0.7X~4.5X, Video Magnification: 28X~182X (based on 24" monitor)			
Illumination	Surface	5-Ring 8-Zone LED Ring Surface Light, 0~255 Level Stepless Adjustable			
	Contour	Telecentric Parallel LED Contour Bottom Light, 0~255 Level Stepless Adjustable			
	Coaxial	Optional High-brightness LED Coaxial Surface Light, 0~255 Level Stepless Adjustable			
Measuring Software		Fully Automatic Vision Measurement Software			
Working Environment		The temperature is 20°C ±2°C, and the temperature change is less than 1°C /hr; Humidity 30% ~ 80% RH; Vibration < 0.02g's, ≤15Hz.			
Power Supply		220V/50Hz; 110V/60Hz			

Note:

- Measurement Accuracy Explanation:**

L: Measured length

The above accuracy is verified with standard gauge blocks or standard line scales as measurement objects .

In practical applications, the Z-axis focusing accuracy largely depends on the roughness and reflective characteristics of the workpiece surface.

- Magnification Explanation:**

The indicated magnification is for reference only. The actual observation effect varies with the final selected display size and resolution. Auxiliary objective lenses or APO attachment lenses can be optionally configured to meet specific measurement requirements.

⊕ OPTIONAL SENSORS

Sensor Type	Description	Model / Option	
A	2D Optical Lens	Electronic Feedback Lens	Zoom745EF
		Motorized Zoom Coaxial Lens	Zoom745MC
B	3D Contact Probe	Imported Contact Probe	MCP
		Imported Contact Probe	PH6 + TP20
C	2D Laser Probe	Displacement Sensor	WCS Series
		Displacement Sensor	ZW-7000 Series

Video Measuring Projector K-VMD Series



Product Characteristic:

- Adopts granite stone base and column to ensure the stability and precision of the machine;
- Adopts toothless polished rod and fast-moving locking device to ensure that the return error of the table is within 2um;
- Adopts high-precision instrument optical ruler and precision worktable to ensure E1 accuracy of the machine is within $\leq 3+L/200\mu\text{m}$;
- Adopts zoom lens and high-resolution color digital camera to ensure clear picture quality without distortion;
- Adopts LED cold surface light source and bottom LED parallel light source as projector illuminations;
- Adopts to adjust the suitable color of Cross line to aim the measured points;
- Adopts high-quality color screen metrology multifunction digital readout DP400 as data process system.

Technical Specifications :

Commodity		Video Measuring Projector K-VMD Series			
Model		K-VMD-1510	K-VMD-2010	K-VMD-3020	K-VMD-4030
Granite Stage		(310*220) mm	(390*220) mm	(505*350) mm	(605*450) mm
Glass Stage		(179.5*129.5) mm	(229.5*129.5) mm	(356*248) mm	(456*348) mm
X/Y Axis Travel		(150*100) mm	(200*100) mm	(300*200) mm	(400*300) mm
Z Axis Travel		100mm	100mm	200mm	200mm
Linear Scales		Resolution: 0.5um			
Instrument Base and Column		High Precision Granite Stone			
Measurement Accuracy*	E1x,y	3+L/200um			
	E1xy	5+L/200um			
	E1z	5+L/200um			
Repeatability Accuracy		2um			
Illumination System		LED cold surface light			
		Bottom LED parallel light			
		Optional coaxial light			
HDMI Camera		1/3" 2MPixel High Resolution Camera: 1920*1080@30fps			
Video Magnification		6.5X High-Resolution Zoom lens with Optical Magnification: 0.7X~4.5X,			
		Video Magnification: 26X~172X (21.5" Monitor)			
Wireless Mouse		Applied to adjust the suitable color of Cross line to aim the measured points			
HDMI LCD Monitor		21" HDMI LCD Monitor			
Measurement Data Process		Digital readout DP400 with English			
Power Supply		AC220V/50Hz; 110V/60Hz			
Dimension (WxDxH)		(462*401*725) mm	(477*452*725) mm	(744*643*1075) mm	(908*776*1070) mm
Gross/Net Weight		60/48Kg	65/50Kg	275/208Kg	283Kg

The Measuring Space of K-VMD Series:

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

Multifunction Digital Readout of Video Measuring Projector

DP400



Systemic		mm	1	POL
Systemic	Point Hits:		01	
Advanced	Line Hits:		02	
Equalize	Circle Hits:		03	
Language	Ag.Type:		DD	
Ports	Key click:		be on	
Supervisor	Backlight:			
Printer	Decimal MM:		03	
RI Mode	Decimal INCH:		03	
Adjust EDGE	Decimal Ag.:		03	

Advanced		mm	1	POL
Systemic	Z-Axis Type:		Linearity	
Advanced	X-Rescaling:		0.001±	
Equalize	Y-Rescaling:		0.001±	
Language	Z-Rescaling:		0.001±	
Ports	Q-Rescaling:		360.0000	
Supervisor	Reverse X:		Yes	
Printer	Reverse Y:		Yes	
RI Mode	Reverse Z:		Yes	
Adjust EDGE	Load Defaults:		ENTER	

Equalize		mm	1	POL
Systemic				
Advanced				
Equalize				
Language				
Ports				
Supervisor				
Printer				
RI Mode				
Adjust EDGE				

Features:

- 5.6 " Color Screen and Sealed silicone touch button, with full information, friendly operation, long using life;
- Save 100 permanent image elements, can set and save current date;
- Multi-function Measurement: Point, line, circle, angle, distance, rectangular, screw thread, ellipse, slot, rounding, preset, construction, and so on;
- Obverse or Opposite direction counting function, 1/2 value, midpoint, permission function, Call function, REC (record) function, and Cycle measurement;
- Section and linear compensation are available for 3-axis, highly ensure measurement accuracy;
- Can connect foot switch, printer, optical edge detection and other multiple auxiliary measurement tools;
- With polar and coordinate system, and can display millimeter and inch, and can shift easily;

- With independent password permission function, to prevent the possibility of data deviation by wrong operation, it can also change the original setting by password permission;
- Support multiple language: English

Specification:

Commodity	Multifunction Digital Readout of Video Measuring Projector
Model	DP400
Language	English
LCD Screen Size	115mm×85mm
LCD Screen Resolution	640*480
Digital Display Range	8Digits (With Decimal Point)
Display Axis	3-axis (X,Y,Z/Q)
Z/Q Display Model	Length or Angle
Angle Display Model	Degree, Minutes and Second or Degree
Signa of Linear Scales	TTL square-wave or AC sine wave of two 90 ° phase angle difference, drive capacity larger than 10MA
Linear Scale Resolution	0.1um,0.2um,0.5um, 1um,2um,5um
Baud Rate	4800,9600,14400,19200,38400,57600
Data Output Port	RS232, DB-9 Parent interface
Operation Keyboard	Sealed Silicone touch-type keyboard
Expansion port	Foot Switch, Printer, Optical Edge Finder, etc
Input Power Supply	AC90V-240V,15W

Standard Delivery:

Commodity	Quantity	Commodity	Quantity
Video Measuring Projector K-VMP-1510	1PCS	K-VMS-3000 Light source Controller	1PCS
Digital Readout DP400	1PCS	Wireless Mouse	1PCS
21" LCD HDMI Monitor	1PCS	Warranty Card/ Qualification /Manual	4COPIES

Koseido Toolmaker Microscope

K-TMM-505D



Technical specifications:

Model	K-TMM-505D
Metall Stage Size	96×96mm
Glass Stage Size	152×152mm
Working Travel	50×50mm
Resolution of Micrometer	Digital 1um
Measuring Accuracy	≤5um
Max.Height of Specimen	115mm
Max.Weight of Specimen	2Kg

Max.Magnification	150× (Φ0.13mm) (15×Eyepiece+10×Objective)
Min.Magnification	20× (Φ6.5mm) (10×Eyepiece+2×Objective)
Standard Magnification	30× (Φ6.5mm) (15×Eyepiece+2×Objective)
Standard Working Distance	67mm
Eyepiece	Monocular(Diopter Adjustable),Depression angle:30°
Eyepiece Protractor	Range:360°;Graduation:1°
Vernier angle Reading	6'
Reticule	90°Broken Gross-Reticule
Illumination	Tungsten bulb(24V;2W),Lightness Adjustable
Power Supply	AC90V-240V,60Hz/50Hz
Dimension(D×W×H)	415×315×420mm
Packing Dimension(D×W×H)	210×333×391mm
Gross/Net Weight	18Kg/14Kg

Standard Delivery:

Product name		Product name		Product name	
15×Eyepiece		2×Objective		Anti-dust Cove	
Mitutoyo Digimatic Head Morometer (K-TMM-505D)		Operation Manual			

Optional Accessories:

Product name		Product name		Product name	
10×Eyepiece		5×Objective		10×Objective	
Rotary Table RTO		25mm Length Gauge		Built-in Reflected Bulb	

EJ SERIES

MANUAL VISION MEASURING SYSTEM



EJ SERIES

MANUAL VISION

MEASURING SYSTEM



EJ series with high reliability and good dynamic performance .It is dimensional measurement has met the demands of rigorous quality control departments in numerous industrial fields.

Applicable to all the application fields for the purpose of two-dimensional coordinate measurement.

Easy to operate and save time. Such as mobile phone, tablet computer, LED,PCB, plastic, metal stamping parts, injection molding, die cutting, electronic industry and other products of geometric size detection.

Features

- Granite Base & Column
- Superior Structural Stability
- Precision Optical Scale
- High-Accuracy Worktable
- Enhanced Quality Control
- HD Zoom Lens
- High-Resolution Camera
- Distortion-Free Imaging
- Optional Touch Probe
- 3D Measurement Upgrade

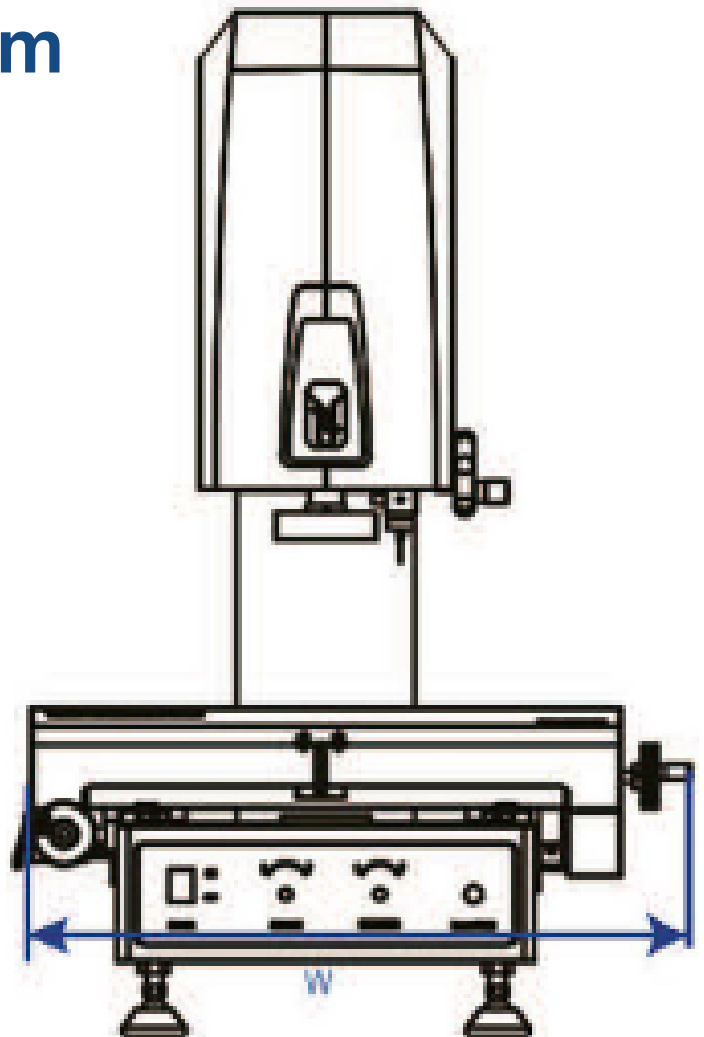


Features

Measuring Stroke (mm)

Axis	EJ200	EJ300	EJ400	EJ500
X	200	300	400	500
Y	100	200	300	400
Z	200	200	200	200

Resolution: 0.5 μm



Specifications

'(L=is the measured length,unit mm)

Specification	EJ200	EJ300	EJ400	EJ500
Stage Glass Size (mm)	228 × 128	328 × 228	428 × 328	528 × 428
Maximum Stage Loading	20 kg			
X/Y Linear Accuracy	$(2.5 + L/200) \mu\text{m}$			
Z Accuracy	$(3.0 + L/50) \mu\text{m}$			
Camera	1/2" GigE Color Camera, 1.3 MP			
Zoom Lens	0.7X – 4.5X			
Monitor Magnification	40X – 250X			
Working Distance	90 mm			
Software	Koseido KJ-M-VM Measurement Software			
Lens Position Identifier	Double Laser Pointer			
Illumination Unit	White LED Ring Light + Green LED Transmission Parallel Light Source			
Net Weight	95 kg	135 kg	217 kg	297 kg

Application

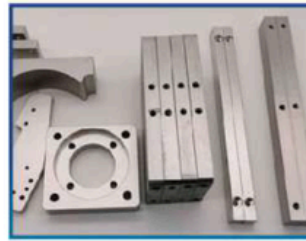
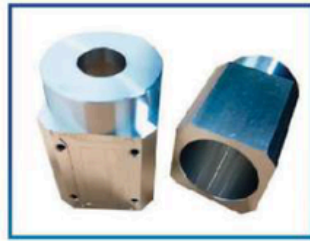
✦ Hardware industry

Including hardware parts, die casting, screws, springs, gears, etc



✦ Machining industry

Including car, milling, grinding, CNC and other mechanical parts, etc



✦ Mold industry

Including mold products, mold parts, mold inserts, mold kernel, mold core



✦ 3C industry

It includes glass cover plates, spare parts, chips, circuit boards and touch screens of mobile phones, ipads ,etc



✦ Automobile industry

Including auto parts, auto modules



SEMI-AUTO VIDEO MEASURING SYSTEM



Semi-auto KJ Series

Semi-auto Vision Measurement Machine. X/Y axis control manually, Z-axis CNC motion control (including auto focus function eliminate the human focus error, enhance measurement accuracy and stability) . Z-axis with high accuracy linear guide.

Features

- Drive resolution X/Y axis control manually, Z-axis CNC motion control.
- With auto focus function, make your operation easier
- Auto Zoom Lens: 0.7X - 4.5X
- High precision granite base, column, to ensure high stability and rigidity.
- Software assisted dimming, so that users can know whether the light is over-saturated.
- Bottom light source lamp makes the imaging effect clearer.



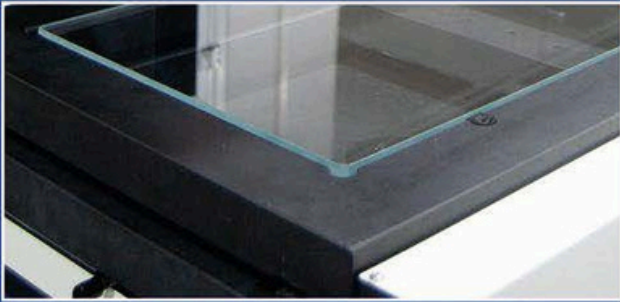
Structure



Hardware

■ Integrated structure, High precision granite base

Max loading weight is 20KG, Use high precision natural granite to ensure the stable operation of the equipment, and has good temperature stability, not easy to deformation.



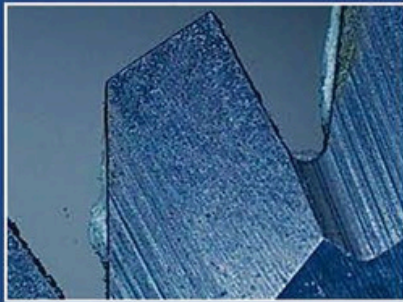
■ Motorized Focus

Z axis Linear guideway+motor control.
Auto Focus.



■ Wide ranging zoom optics streamline dimensional measurements.

Efficient program creation and dimensional measurement are achieved as magnification can be changed at high speed, whilst maintaining highly accurate measurement. So more convenient to test precision sample's size.



■ CMOS image sensor

See clearly, Accurate in measurement, high resolution color camera high definition image effect, high quality picture.



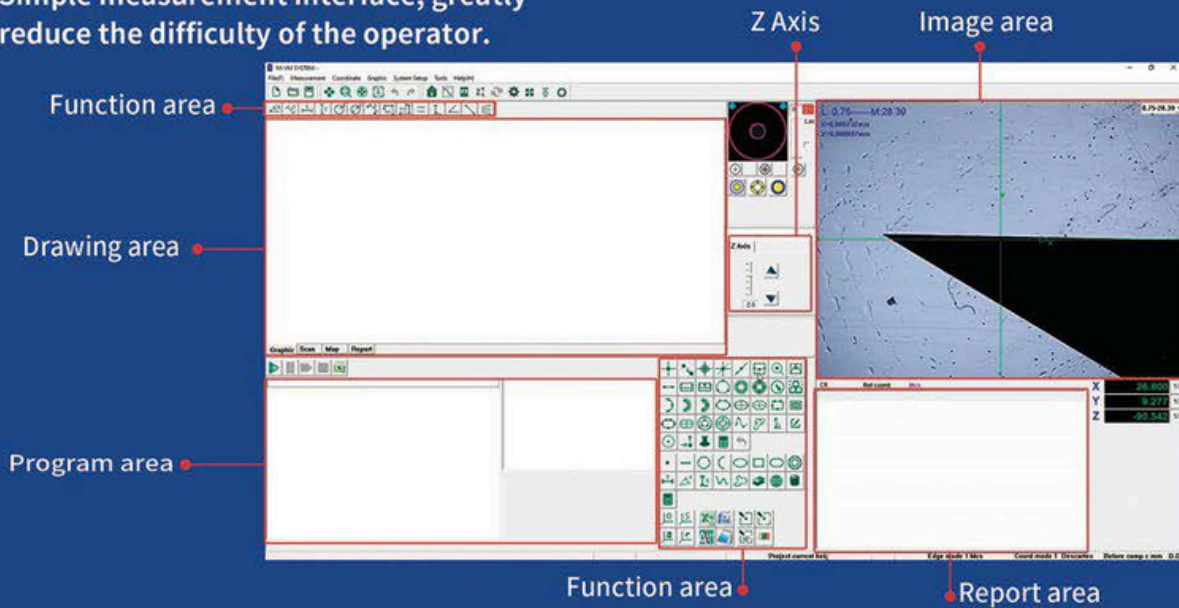
■ Optical system

Manual operation measurement, the lens and light source position can be adjusted up and down, easy to operate. LED cold light source to avoid heat deformation of the work piece under test. Various forms of light source, ensure to meet the diversity of measurement requirements, software assisted dimming, so that users know whether the light is over-saturated.



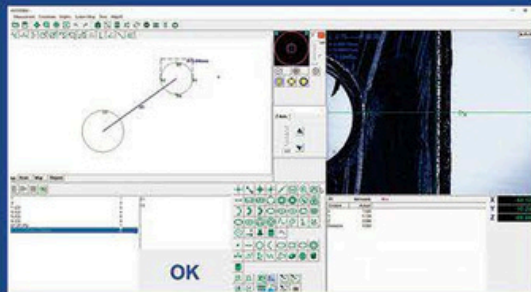
Software

- Simple measurement interface, greatly reduce the difficulty of the operator.



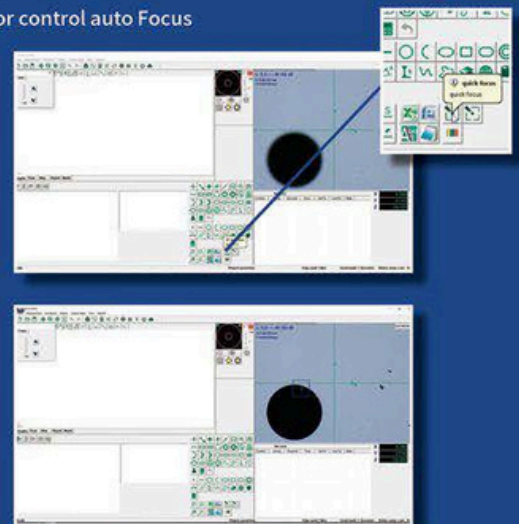
- Multi-functional software

Switch into CNC program, quickly match measurement, navigation image "real-time navigation" function, with the fastest speed to locate the work piece to measure the position for efficient programming.



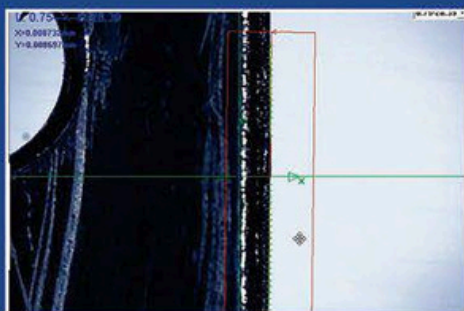
- Auto Focus

Motor control auto Focus



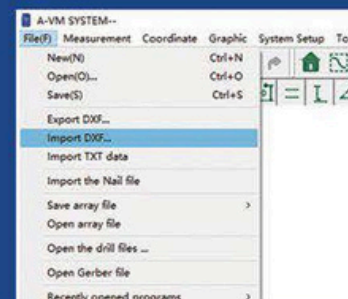
- Intelligent edge

Reduce the error caused by personnel improper operation.



- Graphic correlation

Software can import CAD files, can realize the standard drawing file and workpiece comparison function.

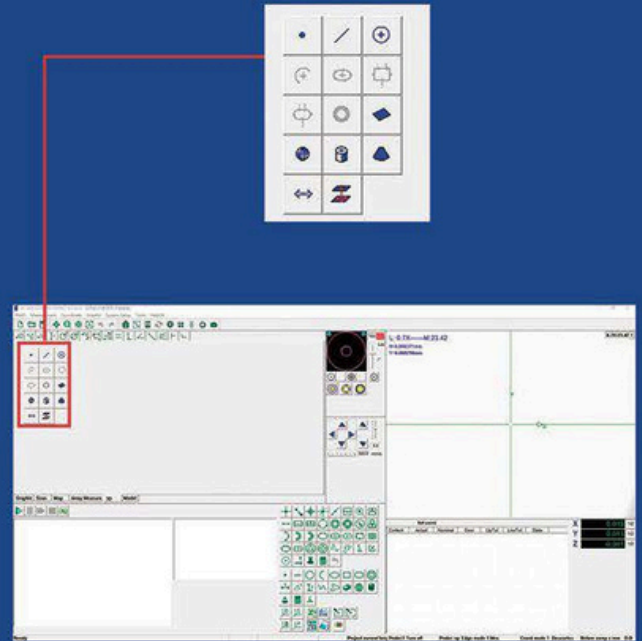


Optional

Optional probe can have 3D measuring function, intuitive 3D graphic display, let users improve the efficiency of probe measurement.



Renishaw MCP probe



Illumination unit: White LED 4-ring 8-area programmable ring light source



Specification

MODEL	KJ-M2010H	KJ-M3020H	KJ-M4030H	KJ-M5040H
X-Y-Z STROKE (mm)	200×100×200	300×200×200	400×300×200	500×400×200
Granite size (mm)	370×230	450×350	570×460	700×560
Stage glass size (mm)	228×128	328×228	428×328	528×428
Max loading weight	20KG			
Observation and Image	1/2 "GIGE Color Camera,1.3MP			
	Zoom Lens:0.7X- 4.5X Working distance:90mm			
	Monitor magnification :40X-250X			
	KOSEIDO KJ-M-VM SYSTEM Software			
X/Y Accuracy	(3+L/200)μm (L is the measured length,unit mm)			
Z Accuracy	(5+L/50)μm (L is the measured length,unit mm)			
Illumination unit	White LED Transmitted Illumination			
X/Y axis control	Manually			
Z axis control	Motion control (Including Auto Focus function)			
Power Source	AC220V/50Hz			

More Accessories Optional

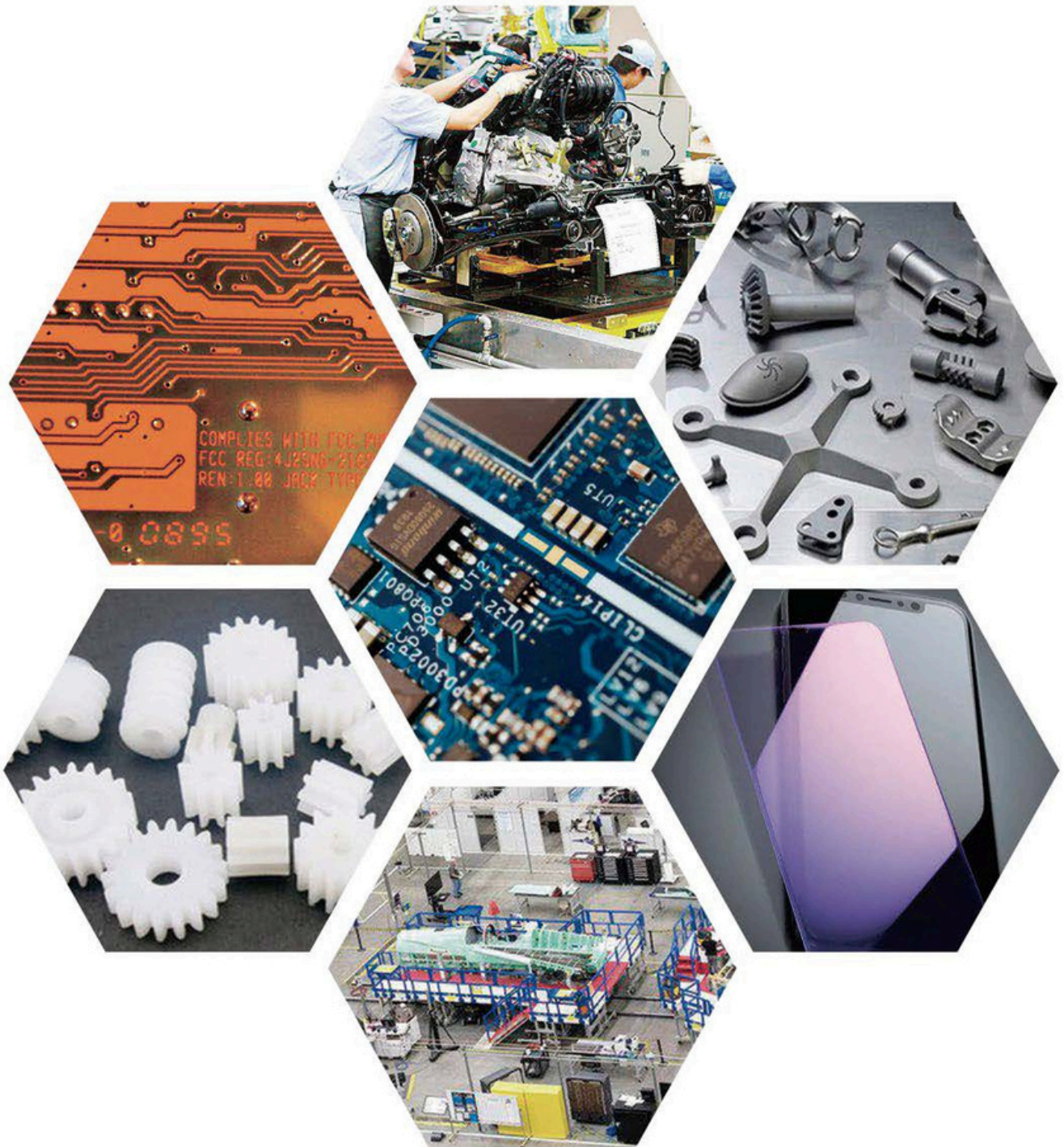
Z Axis	250mm 300mm 350mm 400mm(Other options)
Lens	Motorized zoom lens 0.7-4.5X + coaxial light source
	Motorized zoom lens 0.7-4.5X + coaxial light source + polarized light
	Motorized zoom lens 0.58-7.5X without coaxial light source
	Motorized zoom lens 0.58-7.5X + coaxial light source
	Motorized zoom lens 0.58-7.5X + coaxial light source + polarized light
	Manual zoom lens 0.58-7.5X
	Manual zoom lens 0.58-7.5X + coaxial light source
	Manual zoom lens 0.58-7.5X + coaxial light source + polarized light
Touch Probe	Renishaw or Other options
Ring light	White LED 4-ring 8-area programmable ring light source (Auto control the brightness)
Computer	Lenovo or other

Application area

■ MACHINERY: SHEET METAL, MOULD & DIE, GEAR, TURNING PARTS LIKE BEARINGS, SHAFT.

■ ELECTRONICS: PHONE & TABLET SHEET, PCB, WATCH PARTS, ETC.

■ PLASTICS: MOBILE PHONE CAMERA PLATE, COVER, FRONT BEZEL, SLIDE PLATE, ETC.





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