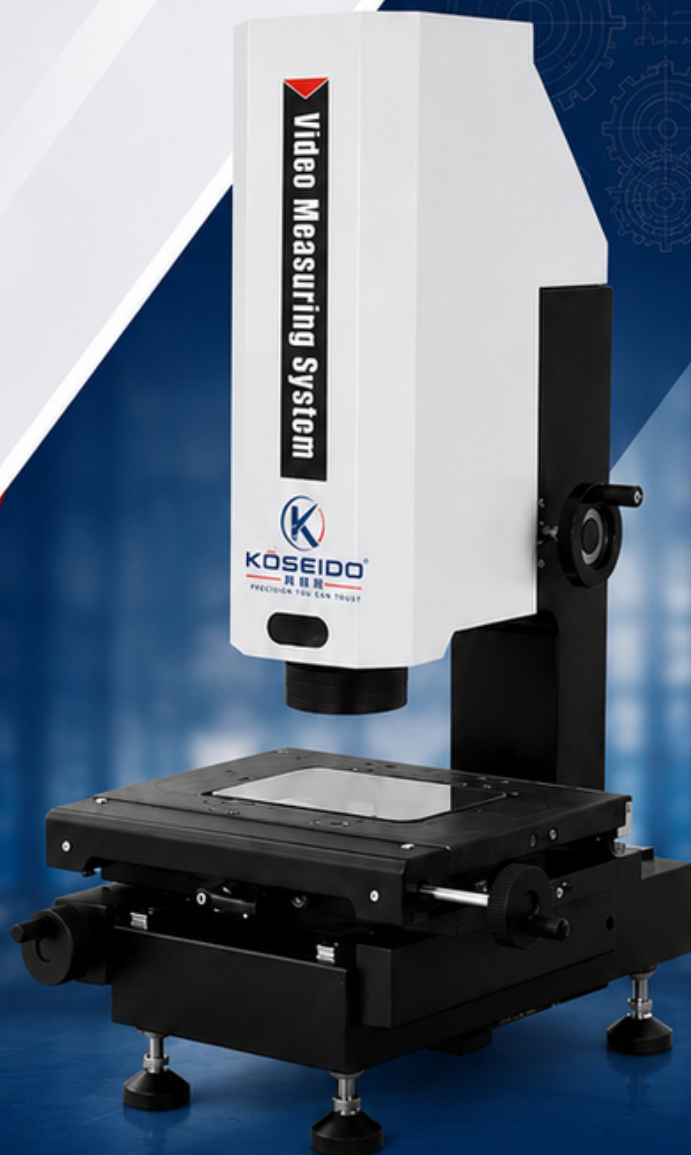


PRECISION MEETS PERFORMANCE

Advanced measurement solutions
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WIDE RANGE OF PRECISION SOLUTIONS

-  Video Measuring Systems
-  3D Scanners
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-  And More Precision Instruments



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RESEARCH &
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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 E1x,y (μm)	3.0+L/200	3.0+L/200	3.0+L/200	3.0+L/200	3.0+L/200
Measurement Accuracy E2xy (μm)	4.0+L/200	4.0+L/200	4.0+L/200	4.0+L/200	4.0+L/200
Measurement Accuracy E1z (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.



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