KŌSEIDO™

高精度

PRECISION YOU CAN TRUST

VIDEO MEASURING SYSTEMS

ADVANCED MEASUREMENT.
PERFECT RESULTS.

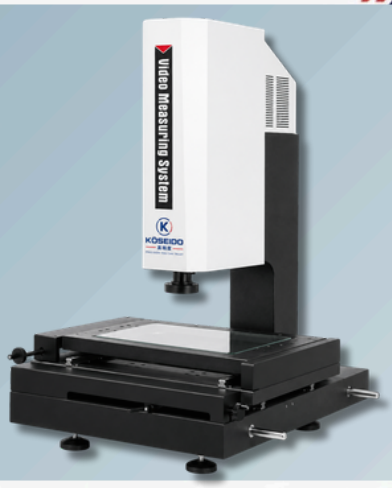
HIGH ACCURACY
Advanced optics & precision mechanics

PRECISE MEASUREMENT
Consistent results you can trust

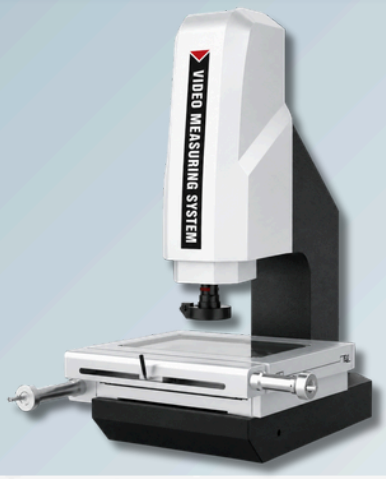
HIGH EFFICIENCY
User-friendly operation for faster inspection

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

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**

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