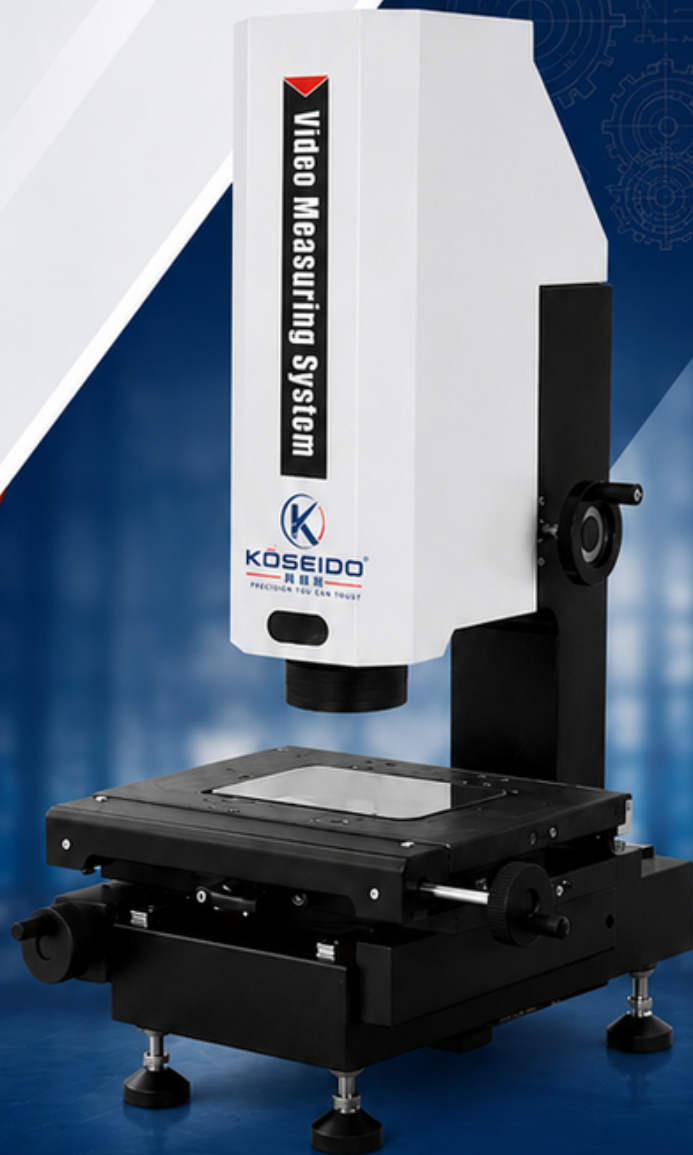


# PRECISION MEETS PERFORMANCE

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## **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;<br>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.



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