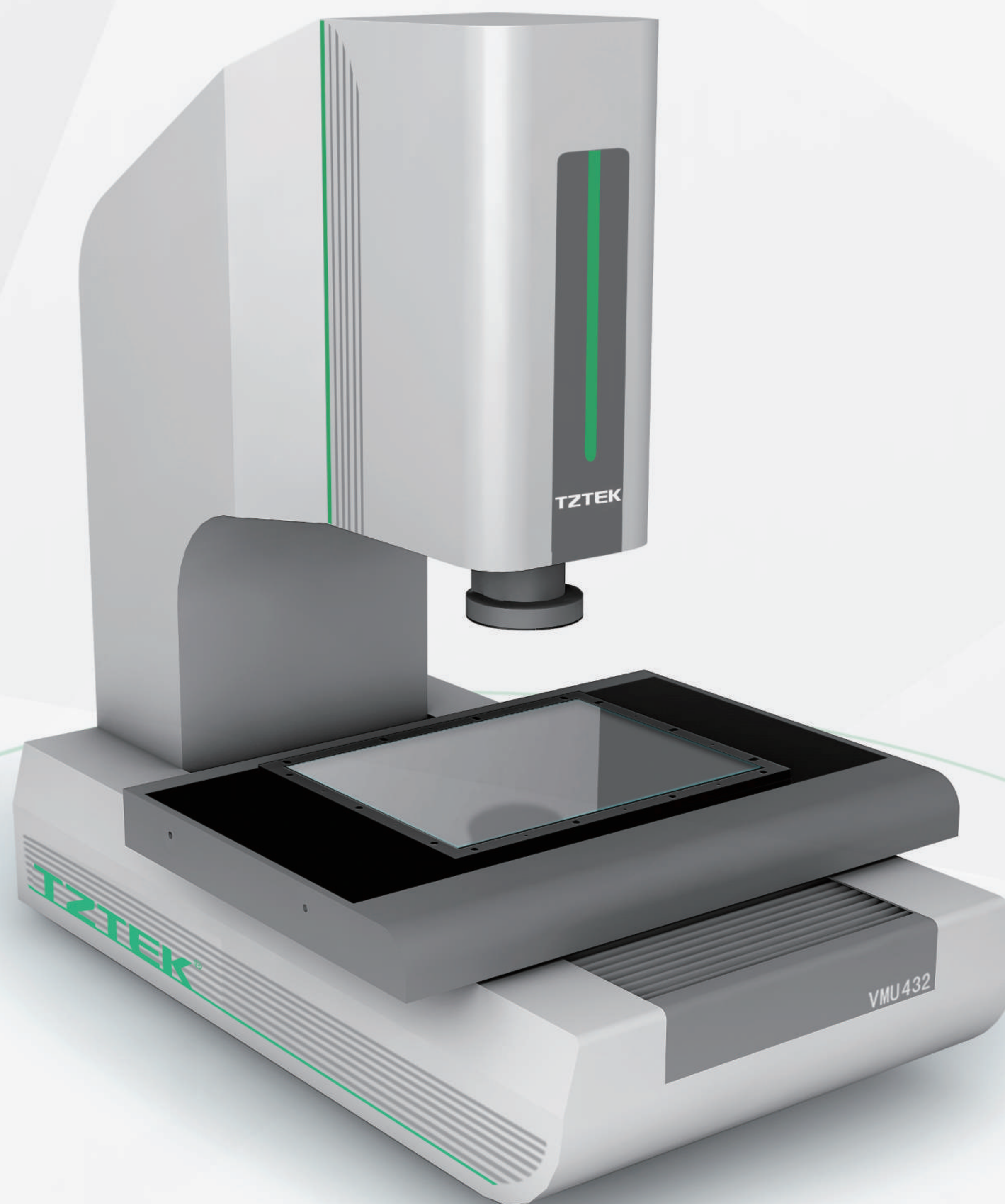


VMU Ultra Video Measuring Machine

VMU Ultra Video Measuring Machine integrates many advanced research achievements in the fields of vision, control, software, mechanism technology, etc.



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Features

- Auto zoom lens with magnification 25-338×
 - Programmable 6 rings 8 segments ring surface light, profile light and coaxial light, available illumination configuration to meet different applications
 - Quick automatic focusing in 2 seconds, substantially improves measuring efficiency
 - Flying-snap function(optional) , increasing measurement efficiency 5-10 times
- Smart extraction enables quick capture of features
 - Joystick is provided for easy operation
 - Granite structure provides high precision and stability
 - AI function for feature capture, reduces manual intervention and saves labor cost
 - Optional chromatic confocal sensor, contact probe, liftable ring surface light etc.

Specification

Model		VMU222	VMU322	VMU432
Travel (mm) ^[1]		200×200×200	300×200×200	400×300×200
External Dimensions (mm)		740×1040×1762		800×1240×1762
Mass (kg)		330	350	420
Max. Stage Loading (kg)		25		
Accuracy ^[2] (μm)	X/Y linear	E1=(1.3+L/200)		
	XY area	E2=(1.4+L/200)		
	Z linear	E1=(2.8+L/200)		
Optics		13.3:1 continuous zooming Lens		
Magnification ^[3]		25-338×		
Illumination	Profile	LED cold light, 256 brightness adjustable		
	Surface ^[4]	Programmable 6 rings 8 segments LED cold light, each segment independently controlled, 256 brightness adjustable (Movable surface light is for option)		
	Coaxial	LED cold light, 256 brightness adjustable		
Camera		High definition industrial color digital camera		
Drive system		4-axis CNC servo control system		
Speed (mm/s)	XY	500		
	Z	100		
Guide		3-axis precise linear guide		
Scale		0.1 μm		
The Min Unit (μm)		0.1		
Image Processing		Advanced TZTEK image processing method: 256 gray level, 20:1 sub- pixel processing technology		
Software		Vispec (VMU Version)		
Environment		Temperature 20°C±2°C, Humidity 30-80%		
		Vibration <0.002 g, below 15 Hz		
Power		200-240 vac, 50/60 Hz, 1 phase, 700 W		

[1] The measurement range of Z-axis is 135 mm, it can add to 280 mm.

[2] L is the measured length in mm, determined by TZTEK's inspection method.

[3] Magnification is approximate and depends on the size and resolution of the monitor.

[4] Movable surface light is for option. The illumination is from 45° to 75°

0.5× or 1.5× or 2.0×additional lens are available for option with the magnification 12-169× or 37-507×or 50-676×.