

Machine Name : profilometer

Brand : Keyence

Machine Model : VR-3200

Stock No. : 4813107

Ex-factory Date : 2018



Main Technical Parameters:

Measuring Head: VR-3000K

Applicable Controller: VR-3000K

Field of View:

Wide-Field Mode:

15-inch Monitor Magnification 12×: 24.0 × 18.0 mm

15-inch Monitor Magnification 25×: 12.0 × 9.0 mm

15-inch Monitor Magnification 38×: 8.0 × 6.0 mm

15-inch Monitor Magnification 50×: 4.5 × 3.4 mm

High-Magnification Mode:

15-inch Monitor Magnification 40×: 7.6 × 5.7 mm

15-inch Monitor Magnification 80×: 3.8 × 2.9 mm

15-inch Monitor Magnification 120×: 2.5 × 1.9 mm

15-inch Monitor Magnification 160×: 1.4 × 1.1 mm

Zoom Ratio: 1×-4×

Measurable Height: 10 mm (± 5 mm) in Wide-Field Mode; 1 mm (± 0.5 mm) in High-Magnification Mode

Display Resolution: 0.1 μm

Height Measurement Repeatability (σ): 0.5 μm

Width Measurement Repeatability: 1 μm in Wide-Field Mode; 0.5 μm in High-Magnification Mode

Height Measurement Accuracy: ± 3 μm

Width Measurement Accuracy: ± 5 μm in Wide-Field Mode; ± 2 μm in High-Magnification Mode

Stitching Function: Fully Automatic Measurement (Automatic XY Stage Control + Autofocus), with Automatic Adjustment and Automatic Template Analysis

XY-Axis Travel: 184 × 88 mm

Z-Axis Travel: 90 mm

Rotation Angle: $\pm 180^\circ$

Tilt Angle: $\pm 30^\circ$ or More

Working Distance: 75 mm

Image Sensor: 4-Megapixel Monochrome CMOS

Transmitter Lens: Double Telecentric Lenses ×2

Receiver Lens: Double Telecentric Lens

Observation Light Source: LED Ring Light (Red, Green, Blue)

Measurement Light Source: White LED

Image Size: 1024 × 768 / 2048 × 1536 pixels

Data Processing: KEYENCE-Specified Dedicated Computer (Windows 7)

Power Supply: 100-240 VAC ±10%, 50/60 Hz

Power Consumption: 150 VA

Ambient Temperature: +15-+30 °C

Relative Humidity: 35-80% RH (Non-Condensing)

Equipment Weight: 28.0 kg

