

VERTEX

261, 341, 342

MICRO·VU

compatible
with:



InSpec
Classic



InSpec

- Equipped with a high-resolution camera-based system to get fast, accurate measurements on a variety of parts.
- Provides vivid pictures through a programmable optical and digital zoom.
- Supports sensitive touch probes systems.
- Integrates high speed vertical distance measurement sensors for scanning capability.
- Includes InSpec Metrology Software®.
- Uses proprietary edge detection to capture data.
- Offers advanced programmable lighting control.
- Includes automated calibration procedures.



Product information is subject to change without prior notice as a result of ongoing technical development.

www.microvu.com | 7909 Conde Lane, Windsor, California 95492

Technical Specifications

	Vertex 261	Vertex 341	Vertex 342
Physical			
Measurement Volume [mm]	250 x 160 x 160	315 x 315 x 160	315 x 315 x 250
Stage Capacity [kg]	10	20	20
Exterior Dimensions [mm]	755 x 1130 x 1075	900 x 1410 x 1065	900 x 1410 x 1245
Machine Weight [kg]	100	150	160
XY Max Speed [mm/s]	250		
Z Max Speed [mm/s]	100		
Linear Resolution [μm]	0.1		
Electrical			
Input Voltage [VAC]	100-240		
Power Consumption (Max) [W]	120		
Power Consumption (Idle) [W]	45		
Power Consumption (Sleep) [W]	35		
Environmental			
Operating Temperature [°C]	18 - 27; <1 change per hour, <2 change per day		
Storage Temperature [°C]	0 - 50		
Relative Humidity	30% - 80% (Non-Condensing)		
Sound Level [dB(A)]	< 70		
Max Altitude [m]	4000		

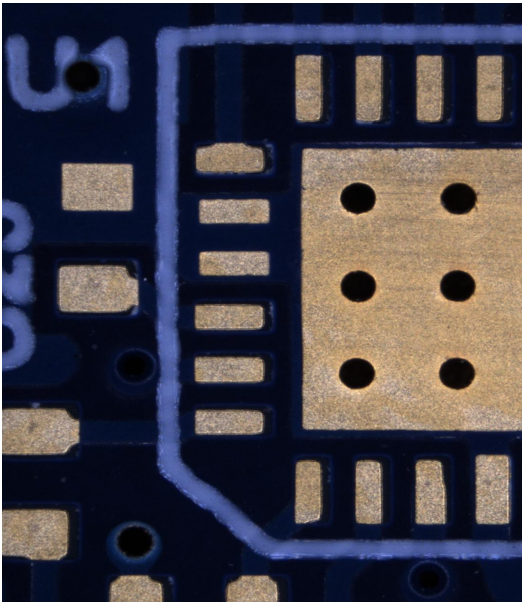
Stage capacity is based on an evenly distributed load.

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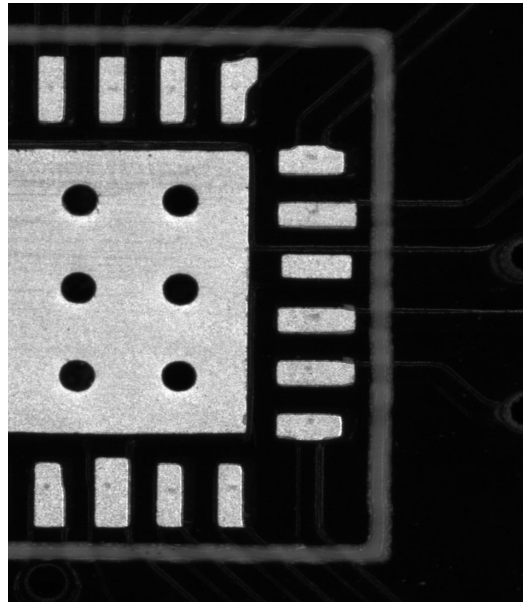
Configuration Options

Camera Options:



A. Color Camera:

- Utilizes white illumination system.
- Offers vivid chromatic information increasing the contrast of color parts.



B. Monochrome Camera:

- Utilizes red illumination system.
- Offers higher optical resolution compared to a color system.

Optical Sensor Configuration Options:

A. Standard Zoom Range Lens or 6x Lens:

- Has an optical and digital hybrid zoom range of 19.5:1.
- Achieves an optical configuration and magnification of $\approx 20\times - 390\times^*$.
- Its simplicity and compactness usually allows for higher accuracy measurements and a longer life span.

B. Extended Zoom Range Lens or 12x Lens:

- Has an optical and digital hybrid zoom range of 36:1.
- Achieves an optical configuration and magnification of $\approx 15\times - 540\times^*$.
- Offers a larger field of view in low magnification and higher resolution in high magnification.

**Monitor size and resolution affect on screen magnification.*

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Optical Multiplier Options:

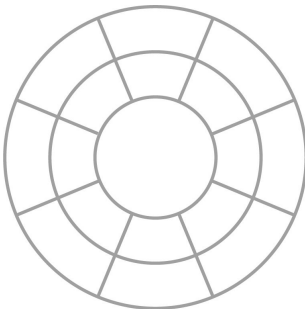
A. No Multiplier or Long Working Distance:

- The optical magnification is maintained for both lens options.
- The working distance is ≈ 66 mm.

B. 2x Optical Multiplier or Short Working Distance:

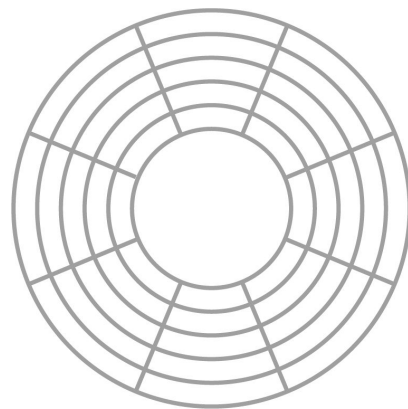
- Doubles the optical magnification of both lens options and simultaneously shrinks the field of view by half.
- Significantly shrinks the working distance to ≈ 25 mm.

Ringlight Options:



A. Standard Ringlight:

- Offers 2 rings, 8 sections, and 16 segments of programmable lighting options.
- Suffice the basic needs of programmable surface lighting.



B. Macro Ringlight:

- Offers 5 rings, 8 sections, and 40 segments of programmable lighting options.
- Improved image contrast for parts with complex surface geometry.