



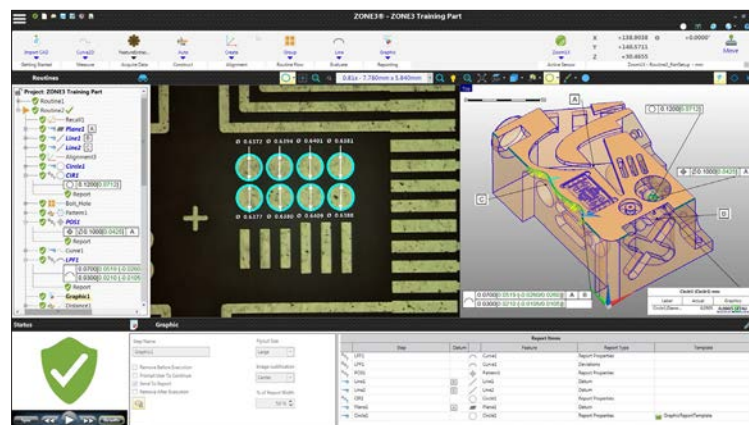
**SmartScope® Quest™ 300** – A 3D multisensor measurement system with the versatility and accuracy needed for the most critical, demanding parts. A compact machine with a unique “elevating bridge” design that yields larger XYZ measurement volume, combining state-of-the-art video and autofocus to deliver high productivity. Quest 300 offers:

- **Accurate video metrology** – TeleStar® telecentric 10:1 zoom optics for the highest level of optical performance
- **Multisensor versatility** – Optional touch probe, SP25 continuous contact scanning probe, micro-probes, and on-axis TeleStar Plus TTL interferometric laser
- **State-of-the-art software** – Powerful ZONE3® metrology software, and other productivity and offline software applications, to suit your requirements

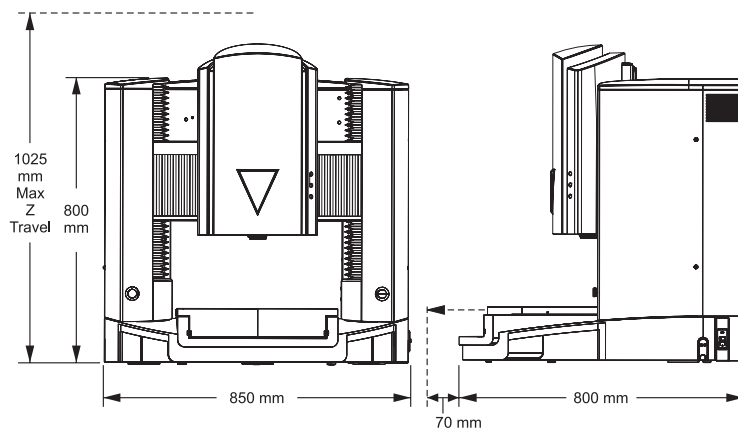
## High Performance Large Volume Dimensional Measuring System that Fits on a Benchtop



# SmartScope® Quest 300



ZONE3® Metrology Software represents a totally new way of working with multisensor measurement systems - robust programming capabilities provide faster, easier, and more productive measurements.



System Weight: 160 kg  
Shipping Weight: 220 kg

	Standard	Optional
<b>XYZ Travel</b>	300 x 300 x 250 mm	
<b>XYZ Scale Resolution</b>	0.1 µm	0.05 µm
<b>Drive System</b>	DC servo with 4-axis control (X,Y,Z,zoom); air bearing Z axis; with multifunction handheld controller	
<b>Worktable</b>	Hardcoat anodized, with fixture holes, removable stage glass, 30 kg recommended max payload	
<b>Rotary Axis</b>		Miniature Servo Rotary (MSR), MicroTheta Rotary (MTR), Dual MTR/MSR
<b>Optics*</b>	AccuCentric® auto-compensating, fully telecentric zoom, motorized; 1x lens	<b>Focus Grid Projector:</b> LED source <b>Laser Pointer:</b> Not available with optional TTL laser <b>Replacement / Laser Lenses:</b> 0.5x, 2.0x, 4.0x
<b>Illumination</b>	Substage LED profile, coaxial LED surface, SmartRing™ LED ring light	Flexible SmartRing light for 0.5x lens
<b>Metrology Camera</b>	Monochrome digital metrology camera	
<b>Field of View</b>	8.1 mm x 6.1 mm (low zoom) to 0.81 mm x 0.61 mm (high zoom)	13.1 mm x 9.8 mm (0.5x lens), to 0.20 mm x 0.15 mm (4.0x lens)
<b>Working Distance</b>	65 mm	Up to 127 mm (0.5x lens)
<b>Sensor Options</b>		<b>Tactile:</b> TP20 or TP200 Touch Probe, SP25 Scanning Probe, Feather Probe™ <b>Non-Contact:</b> TeleStar Plus Interferometric TTL laser
<b>Software</b>	<ul style="list-style-type: none"> <li>• ZONE3 metrology software</li> <li>• QVI Portal</li> </ul>	<b>Metrology software:</b> ZONE3 Prime, ZONE3 Pro <b>Productivity software:</b> MeasureFit® Plus, SmartFit® 3D, OGP EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) <b>Offline software:</b> ZONE3
<b>System Controller</b>	Windows® based, with up-to-date processor and on board networking/communication ports	
<b>Controller Options</b>	24" flat panel LCD monitor, keyboard, 3-button mouse	Dual 24" flat panel LCD monitors
<b>Power Requirements</b>	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 600 W	
<b>Compressed Air Requirements</b>	0.3 - 0.5 MPa; Minimum Flow capacity: 120 l/min; Air quality ISO 8573-1:2010 Class 4.3.4 or better	Air dryer kit
<b>Safe Operating Environment</b>	15-30 °C, non-condensing	
<b>Rated Environment</b>	Temperature 18-22 °C, stable to ±1 °C; max rate of change 1 °C / hour; max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
<b>XYZ Volumetric Accuracy</b>	$E_3 = (3.0 + 5L/1000) \mu m$	
<b>XY Area Accuracy</b>	$E_2 = (1.5 + 5L/1000) \mu m$	
<b>Z Linear Accuracy</b>	$E_1 = (2.5 + 5L/1000) \mu m$	$E_1 = (2.0 + 5L/1000) \mu m$ (requires optional TeleStar Plus TTL laser, or touch probe)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Accuracy specifications are verified with the imaging sensor unless otherwise specified. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Depending on load distribution, accuracy at maximum payload may be less than standard. On-site verification of volumetric accuracy is optional.

\*Lenses and lens attachments can be manually interchanged to change magnification and working distance.



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