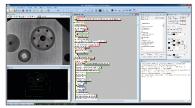


Summit delivers high accuracy and high measuring speeds for near-line process monitoring and quality assurance applications. High-Speed linear motor XY drives ensure very high productivity on the factory floor. It is ideally suited for measuring large footprint parts such as stencils, flat panel displays, etching sheets, and mask patterns, as well as nested groups of smaller parts.

- Built-in Measurement Stability –
 A fixed granite bridge structure provides vibration isolation and measurement stability for use on the production floor.
- Optical Interchangeable Lenses Advanced fixed single-magnification or optional dual-magnification optics, illumination, image processing, and available Continuous Image Capture make it a world-class metrology system.
- Multisensor Versatility –
 Optional touch and scanning probes,
 TTL Laser, and Rainbow Probe™.

Large Area, High Accuracy Dimensional Metrology System





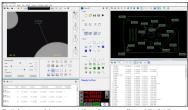
VMS™ software combines a complete tool box for automation scripting environment that allows complete development of custom measurement routines to suit production requirements.



ZONE3® Metrology Software represents a totally new way of working with multisensor measurement systems, providing faster, easier, and more productive measurements.

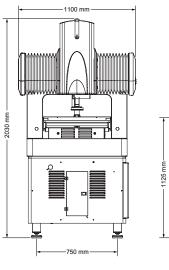


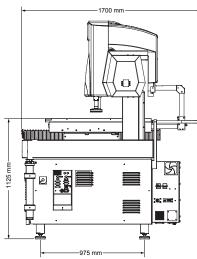
Elements® software is designed specifically for precision simple feature-based measurements and a dedicated measurement of circuit board and electronic assemblies in a high mix manufacturing environment. Elements uses a library of pre-configured SMT component algorithms to automatically create measurement routines from CAD Files



Full feature Measure-X® software offers 2D CAD program generation and general-purpose dimensional measurement with multi-sensor and rotary axis







System Weight: 1000 kg Shipping Weight: 1140 kg

	Standard	Optional
XYZ Travel	450 x 600 x 150 mm	
XYZ Scale Resolution	0.1 μm, zero expansion material	0.05 μm, zero expansion material
Drive System	XY liquid cooled linear motor drives and Z DC servo with 4 motorized motions (X, Y, Z, PRL) and multifunction handheld controller	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 50 kg recommended max payload	
Rotary Axis		Miniature Servo Rotary (MSR™), MicroTheta Rotary (MTR™), Heavy Duty Rotary (HDR™), High Precision Rotary (HPR)
Optics*	Single magnification, fixed lens; 2.5x lens; 1.0x adapter tube	Dual Magnification: Fixed lens optics with field interchangeable front lens Focus Grid Projector: LED source with Ronchi or Dot pattern Laser Adapter: Allows for field retrofit of TTL Laser. Includes Laser Pointer Front Lenses: 1.0x Long Working Distance (LWD), 0.8x, 1.0x, 5.0x, 10.0x, and 25.0x Factory Installed Adapter Tube: 2.0x (single magnification optics only)
Illumination**	Substage LED profile (green), Coaxial LED surface (green), Multicolor PRL with motorized angle of incidence adjustment (R/G/B)	PRL: All Green, Blue, or White Continuous Image Capture (CIC), Strobing profile
Metrology Camera	2MP digital, monochrome metrology camera	2MP digital, color 5MP digital monochrome (single magnification optics only)
Field of View	2.78 x 2.07 mm (1.0x tube, 2.5x lens)	Single Mag FOV: 8.34 x 6.23 mm (1.0x tube, 0.8x lens) to 0.28 x 0.21 mm (2.0x tube, 25.0x lens) Dual Mag FOV: 8.34 x 6.23 mm (0.8x lens) to 0.06 x 0.05 mm (25.0x lens)
Working Distance (with PRL Retracted)	34 mm (2.5x)	Up to 112 mm (0.8x)
Sensor Options***		Tactile: TP20 or TP200 Touch Probe, SP25 Scanning Probe Non-Contact: Through-the-Lens (TTL) Laser, Rainbow Probe
Software	Choice of VMS, ZONE3 Express, or Measure-X metrology software QVI® Portal	Metrology software: ZONE3 Prime, ZONE3 Pro, Elements Productivity software: Measure-X Analyze, SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: ZONE3, Measure-X, VMS, Elements
System Controller	Windows® based, with up-to-date processor and onboard networking/communication ports	
Controller Options		24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1800 W	
Safe Operating Environment	15-30 °C, non-condensing	
Rated Environment	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 <0.001 g below 15 Hz	
XY Area Accuracy	E ₂ = (2.0 + 4L/1000) µm	E ₂ = (1.5 + 5L/1000) μm (requires optional 0.05 μm scales)
Z Linear Accuracy	E ₁ = (1.8 + 5L/1000) μm	E ₁ = (1.4 + 5L/1000) µm (requires optional Rainbow or Touch Probe)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment on materials with CTE 0 +/- 2.5 PPM/°C. Optical specifications apply with the standard configuration. XY Accuracy applies with an evenly distributed load up to 10 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. Accuracy specifications do not apply to Continuous Image Capture (CIC) mode.

***Touch Probe only supported in Measure-X and ZONE3. Scanning Probe only supported in ZONE3. Rainbow Probe only supported in VMS and ZONE3.



World Headquarters: Rochester, NY, USA • 585.544.0400 • www.ogpnet.com

OGP Shanghai Co, Ltd: Shanghai, China

86.21.5045.8383/8989 • www.smartscope.com.cn

OGP Messtechnik GmbH: Hofheim-Wallau, Germany

49.6122.9968.0 • www.ogpmesstechnik.de

Optical Gaging (S) Pte Ltd: Singapore • 65.6741.8880 • www.smartscope.com.sg