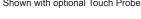


SmartScope E7 sets the standard for 3-axis video measurement performance. The fixed lens IntelliCentric™ 10.10 optical system and digital zoom provide a high resolution image engineered for video edge detection metrology. SmartScope E7 also offers:

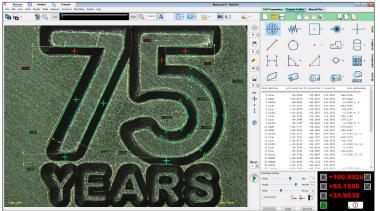
- Advanced Lighting –
 All LED coaxial, substage profile, and SmartRing™ light illumination comes standard
- Sturdy, Stable Construction –
 A heavy-duty cast base and integral compound stage with Y-axis center drive provides stability.
- Multisensor Versatility Optional touch probe.

Fully Automatic Measurement System that Sets the Standard for 3-Axis Video Measurement



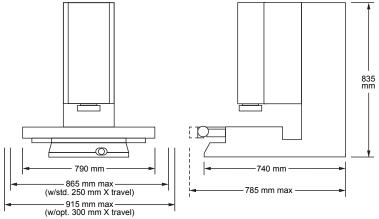






Full feature Measure-X® metrology software offers 2D CAD program generation and general-purpose dimensional measurement with multisensor and rotary axis support.

SmartScope® E7



System Weight: 165 kg Shipping Weight: 280 kg

	Standard	Optional
XYZ Travel	250 x 150 x 200 mm	Extended X-axis, 300 mm
XYZ Scale Resolution	0.1 µm	
Drive System	DC servo with 3-axis control (X, Y, Z); with 3-axis joystick controller	
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 25 kg recommended max payload	
Rotary Axis		Miniature Servo Rotary (MSR™)
Optics*	Fixed optical magnification with digital zoom, 5 zoom positions, 1.0x lens	Replacement Lenses: 2.0x
Illumination	Substage LED profile, coaxial LED surface, SmartRing™ LED ring light	
Metrology Camera	6 megapixel color digital metrology camera	
Field of View**	7.0 mm x 5.2 mm to 1.7 mm x 1.3 mm	3.5 mm x 2.5 mm to 0.85 mm x 0.65 mm (2.0x lens)
Working Distance	75 mm	
Sensor Options		Tactile: TP20 or TP200 Touch Probe
Software	Measure-X Measure and Compare	Productivity software: Measure-X Analyze, SmartFit® 3D, OGP® EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: Measure-X
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, 700 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 <0.001g below 15 Hz	
XY Area Accuracy	E ₂ = (2.2 + 5L/1000) µm	
Z Linear Accuracy	E ₁ = (3.8 + 5L/1000) μm	E ₁ = (2.8 + 5L/1000) µm (requires optional 2.0x lens)

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum digital 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.



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^{*}Lenses can be manually interchanged to change magnification and working distance.