

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:

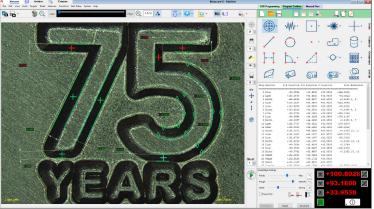
- Advanced Lighting –
 All LED coaxial, substage profile, and SmartRing™ light illumination comes standard
- Sturdy, Stable Construction –
 A heavy-duty cast base and integral compound stage with Y-axis center drive provides stability.
- Multisensor Versatility Optional touch probe.

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



Shown with optional Touch Probe.

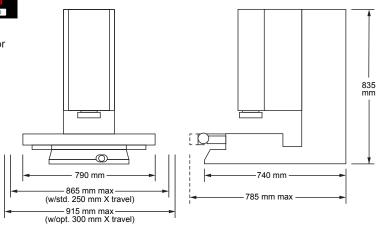




Full feature Measure-X® metrology software offers 2D CAD program generation and general-purpose dimensional measurement with multisensor

and rotary axis support.

SmartScope[®] E7



System Weight: 165 kg Shipping Weight: 280 kg

Sta	tandard	Optional
ravel 250	50 x 150 x 200 mm	Extended X-axis, 300 mm
Scale Resolution 0.1	0.1 μm	
System DC	DC servo with 3-axis control (X, Y, Z); with 3-axis joystick controller	
t able Ha	Hardcoat anodized, with fixture holes, removable stage glass, 25 kg recommended max payload	
y Axis		Miniature Servo Rotary (MSR™)
	ixed optical magnification with digital zoom, 5 zoom positions, .0x lens	Replacement Lenses: 2.0x
nation Su	Substage LED profile, coaxial LED surface, SmartRing™ LED ring light	
logy Camera 6 n	6 megapixel color digital metrology camera	
of View** 7.0	.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)
ing Distance 75	5 mm	
or Options		Tactile: TP20 or TP200 Touch Probe
Me Me	fleasure-X Measure and Compare	Productivity software: Measure-X Analyze, SmartFit® 3D, EVOLVE® Suite (Design, EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: Measure-X
m Controller Wi	Windows® based, with up-to-date processor and onboard networking/communication ports	
oller Options		24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)
r Requirements 100	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 700 W	
Operating Environment 15-	15-30 °C, non-condensing	
	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	
ea Accuracy E ₂	E ₂ = (2.2 + 5L/1000) µm	
ear Accuracy E,	t ₁ = (3.8 + 5L/1000) μm	E ₁ = (2.8 + 5L/1000) μm (requires optional 2.0x lens)
ea Accuracy ear Accuracy E1 is evaluated with a QVI verification proceconfiguration. XY Accuracy applies with arbution, accuracy at maximum payload max	$< 0.001g$ below 15 Hz $E_2 = (2.2 + 5L/1000) \mu\text{m}$ $E_1 = (3.8 + 5L/1000) \mu\text{m}$ $E_2 = (2.8 + 5L/1000) \mu\text{m} \text{(requires optional 2.0x lens)}$ The procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum digital magnification of 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. Dependent of the contraction of the standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Dependent of the contraction of the contrac	





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