



STARLITE® S1

BENCHTOP SEMI-AUTOMATIC 3-AXIS VIDEO METROLOGY SYSTEM

StarLite S1 is a compact and reliable video measurement system combining fully automatic measurements with manual stage motion.

Measure-X® metrology software provides powerful programming capability with an easy-to-use operator interface. Programs can be created, guiding the operator from one automatic edge measurement to the next.

- **HIGH-PERFORMANCE OPTICAL SYSTEM**

Fixed lens IntelliCentric-S optical system and VIRTUAL ZOOM™ provide a high resolution image.

- **ADVANCED LIGHTING**

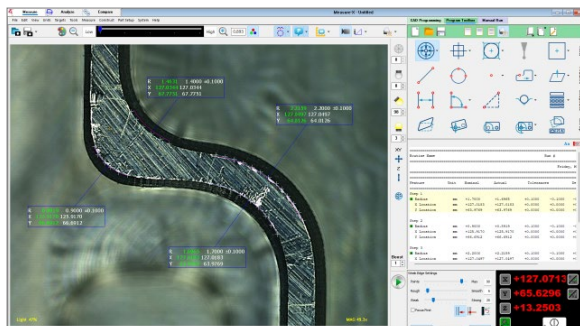
All LED coaxial, substage profile, and SmartRing™ light illumination comes standard.

- **RELIABLE AND OPERATOR FRIENDLY**

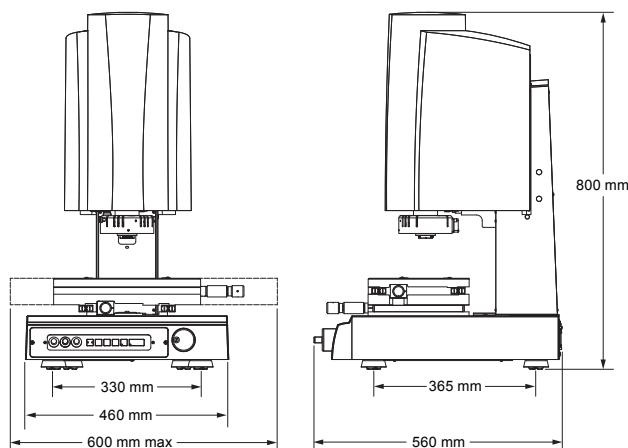
Robust stage with ergonomic controls provide the accuracy expected from a high-performance metrology system.



STARLITE™ S1



Measure-X® makes it easy for StarLite to accurately measure fine features that require multi-step measurement routines. Edge measurements are fully automatic. Measure-X guides the user to position each feature using the manual stage controls.



System Weight: 50 kg
Shipping Weight: 155 kg

	Standard	Optional
XYZ Travel	150 x 75 x 125 mm	
XYZ Scale Resolution	1.0 µm	
Drive System	Manual with coarse and fine 3-axis control (X, Y, Z)	
Worktable	Anodized with fixture holes and removable stage glass; 7 kg recommended max payload	
Optics¹	Fixed optical magnification with VIRTUAL ZOOM, S 8.10 standard lens	Replacement Lenses: S 16.20 Wide Field-of-View/Long Working Distance, S 4.5 High Magnification
Illumination	Substage LED profile, coaxial LED surface, SmartRing LED ring light	Conical SmartRing (included with S 4.5 lens)
Metrology Camera	6 megapixel color digital metrology camera	
Field of View	7.0 mm x 5.2 mm	S 16.20: 14.0 mm x 10.4 mm S 4.5: 3.5 mm x 2.6 mm
Minimum Feature Size²	10 µm	S 16.20: 20 µm S 4.5: 5 µm
Working Distance	62 mm	S 16.20: 110 mm S 4.5: 31 mm
Software	Measure-X metrology software	Productivity Software: Measure-X Analyze, OGP® EVOLVE® Software (Design, Manufacturing, SmartProfile®, SPC) Offline Software: Measure-X
System Controller	Windows® based with up-to-date processor and onboard networking/communication ports	High-Performance Controller
Controller Options		24" flat panel LCD monitor or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)
Accessories		Footswitch, Digital I/O Automation Interface
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 400 W	
Safe Operating Environment	15-30 °C, non-condensing	
Rated Environment	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 1.0 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz	
XY Area Accuracy	$E_2 = (4.5 + 8L/1000) \mu m$	
Z Linear Accuracy	$E_1 = (7.0 + 8L/1000) \mu m$	

Accuracy is evaluated with a OGP compensation and verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the highest 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. This equipment complies with EMC directive EN IEC 61326-1, Class A.

¹Lenses can be manually interchanged to change magnification and working distance.

²Based on width measurement of USAF resolution test chart in best focus at the highest magnification. For reference only.

Learn more about OGP Measurement Systems at ogpnet.com



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