



XSight ONE M1 Video Extensometer High-Precision Strain Measurement System



Product Description: The XSight One M1 Video Extensometer delivers advanced non-contact strain measurement for materials testing. Utilizing high-resolution optics and real-time tracking, it ensures accurate deformation analysis in tensile, compression, and fatigue tests. Its intuitive software and robust design make it ideal for metals, composites, and polymers, enhancing repeatability and reducing specimen interference.

www.universalgripco.com

72 Loring Ave. St. 2 Salem, MA 01923

978-882-1480



Key Features

- All-in-one box extensometer with integrated camera, lens, LED light and USB relay
- Supports ISO 9513 accuracy Class 0.5 and Class 1 measurements
- Stackable units for extended measuring areas (up to 3× modules)
- Intuitive X-Sight Alpha software with axial and transversal modules
- Robust mechanical design for UTM mounting (3/8" UNC tripod or dual M6 screws)

Technical Specifications

Parameter	Specification
Model	ONE 1-M1
Measuring Length	
• ISO 9513 Class 0.5	80 mm
• ISO 9513 Class 1	160 mm
Sampling Rate	
• Full-View	170 Hz
• Typical	200 Hz
Field of View (ONE 1-M1)	
• Class 0.5 (HxW)	80 × 64 mm
• Class 1 (HxW)	160 × 128 mm
Working Distance (typical)	300 – 500 mm (front cover edge)

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Mechanical & Light Parameters

Parameter	ONE 1-M1
Length	221 mm
Width	187 mm
Height	80 mm
Weight	1.4 kg
LED Light	L200 Blue LED
• Active Length	200 mm
• Wavelength	465 nm
• Luminous Flux	165 lm
• Power Consumption	8 W

Software & Connectivity

- **Software:** X-Sight Alpha (axial or transversal modules; post-processing optional)
- **PC Connection:**
 - USB 3.0 (camera) at up to 5 Gbps
 - USB 2.0 (built-in relay)
- **Data Transfer Options:** DOLI Binary, MODBUS, HP VIDEO, TCP/IP, RS-232, API (JSON/MRT), analog AD/DA, pulse encoder
- **Power:** PoE (24 V via RJ45, 802.3.af Mode B)

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Environmental & Operating Conditions

- **Temperature:** 5 – 40 °C
- **Humidity:** 30 – 70 % RH
- **Usage:** Indoor only; compatible with glass or mirror setups (polarization recommended)

Field of View/Working Distances

ONEx-M1											
ISO 9513 class			Field of View [mm]				Working Distance [mm]				
ONE1-M1			ONE3-M1		ONE3-M1		Lens Focal Length [mm]				
	Height	Width	Height	Width	Height	Width	12	16	25	35	50
0.5	80	64	2x80	64	3x80	64	127	169	297	455	685
1	160	128	2x160	128	3x160	128	285	380	621	909	1338
2	320	256	600	56	900	256	600	803	1269	1818	2643

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