VIDEO EXTENSOMETER M SERIES

The Video Extensometer M Series is a non-contact optical strain measurement system that uses advanced Digital Image Correlation (DIC) technology to provide precise deformation and elongation measurements during tensile testing. It utilizes a high-resolution optical sensor and dedicated software to capture accurate axial and radial strain data without requiring physical contact with the specimen. The system is suitable for testing steel rebars, flat and round specimens up to failure, as well as materials where conventional extensometers cannot be attached, including FRP, FRCM, CRM, FRC, geotextiles, geogrids, fabrics, and many other materials.

VIDEO EXTENSOMETER M SERIES

SPECIFICATION

Parameter	M5	M9
Sensor Type	CMOS	CMOS
Resolution	5 MP	9 MP
Pixel Dimension	0.00345 mm	0.00345 mm
Frame Rate	75 Hz	32 Hz
Digital Interface	USB 3.0	USB 3.0
Working Distance (Class 0.5)	213 mm	233 mm
Working Distance (Class 1)	459 mm	494 mm
Working Distance (Class 2)	950 mm	1017 mm

STANDARDS

- ASTM A615
- ASTM A370
- ASTM E4
- ASTM E8
- ASTM E9
- UNI EN ISO 6892
- UNI EN ISO 7500-1
- UNI EN 15630
- UNI EN 10080

FEATURES

- Non-contact strain measurement technology
- Advanced Digital Image Correlation (DIC)
- No markers or targets required on specimens
- Measures both axial and radial strain
- Multi-probe simultaneous strain measurement
- Easy calibration process
- Elongation measurement
- Incline measurement
- Torsion measurement
- Crack length measurement
- Surface fragmentation analysis
- Real-time strain distribution analysis
- Video recording and playback functionality
- High-speed USB 3.0 connectivity
- Software upgradeable modules

ACCESSORIES

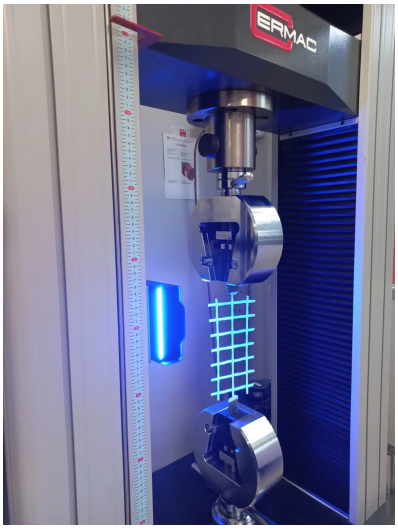
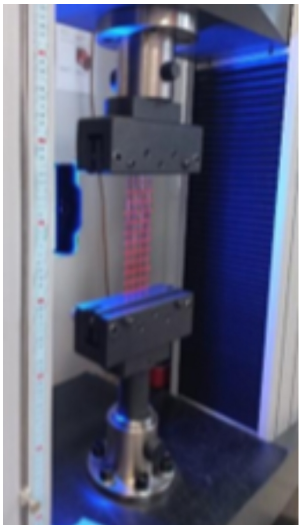
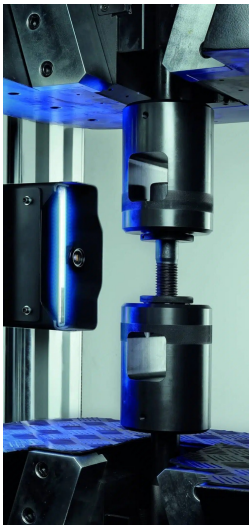
- High-resolution optical sensor
- LED illumination system
- 16 mm focal length lens
- USB 3.0 connection cable
- Calibration tools
- Dedicated analysis software

ORDERING CODE

- Video Extensometer M5
- Video Extensometer M9

3D SOFTWARE

The integrated software enables real-time visualization, measurement, recording, and analysis of strain data during testing. The software supports Digital Image Correlation (DIC), multiple measurement functions, calibration management, video playback, and data export for advanced reporting and Industry 4.0 integration.

DELIVERY KIT

- Video Extensometer Unit
- High-resolution CMOS Sensor
- Integrated LED Illumination System
- Dedicated Software License
- USB 3.0 Cable
- Calibration Accessories
- User Documentation
- Installation & Setup Guide