



- 500 kHz Sampling
- Ultra-high Sensitivity
- Ideal for Vibration Monitoring

The W6 is our fastest FBG interrogator, providing high-resolution measurements at up to 500 kHz on one channel, or 100 kHz on four channels. It lends itself to such applications as ballistic and blast testing, acoustic emission monitoring, and vibration mode analysis. W6 is manufactured by Micron Optics Inc.

Specifications	W6
Optical	
Wavelength Range	1530 – 1560 nm
Number of Optical Channels	4
Number of Sensors / Channel	1
Scan Frequency	500 kHz for single channel, 100 kHz on four simultaneous channels
Strain sensitivity range ¹	0.02 µε / 100 µε OR 0.2 µε / 1,000 µε OR 2 µε / 10,000 µε
Optical Connector	FC/APC
FBG specification	0.5 nm bandwidth, >80% reflectivity
Mechanical	
Dimensions	134 mm x 432 mm x 451 mm
Weight	15.5 kg (34 lbs)
Colour LCD display	162 mm (diagonal)
Environmental	
Operating Temperature	10 to 30 °C
Operating Humidity	0 to 80%, non-condensing
Electrical	
Interface	Ethernet
On-board storage	80GB HDD
Input Voltage	100 VAC to 240 VAC. 50/60 Hz input (24 VDC available)
Power Consumption	80W typical, 150 W max
Data Management	
On-board firmware	4 spectral domain views (for FFT analysis) or time varying signal. Triggered acquisition

Notes

¹ Each channel is independently configurable e.g. Ch 1 0.02 µstrain / 100 µstrain, Ch 2 & 3 0.2 µstrain / 1,000 µstrain, Ch 4 2 µstrain / 10,000 µstrain - Specifications subject to change without notice

W6 Software Utilities

Overview of applications supplied with every W6 interrogator.

Data analysis tools to provide you with information in a variety of formats to suit your application needs.

