

TECHNICAL SPECIFICATION FOR

Ultrafast FBG Interrogator: A state-of-the-art integrated ultra-high-speed portable turnkey sensing solution for monitoring up to 5 Fiber Bragg Grating (FBG) sensors on a two optical fibers.

Number of Fibers	4 channel fiber
Sensors per fiber	Up to 5
Sampling Speed	1.3 MS/s
Wavelength Range	C Band (1540 to 1566 nm)
Resolution	0.1 pm (0.1 $\mu\epsilon$)
Absolute Accuracy	± 2 pm (± 2 $\mu\epsilon$)
Strain Range	$\pm 1,060$ $\mu\epsilon$ (5 FBGs/fiber) $\pm 2,650$ $\mu\epsilon$ (2 FBGs/fiber)
Sensing Temperature	250°C (option for up to 800°C)
System Noise Floor (broadband RMS amplitude)	<0.40 $\mu\epsilon$ @ 0-566 kHz <0.15 $\mu\epsilon$ @ 0-100 kHz
Dynamic Range	96 dB
Optical Connectors	FC or E2000 APC
Operating Temp. Range	0°C to 65°C
Source Optical Power	10 dBm
Power Consumption	16.0 x 36.6 x 24.6 cm ³
Weight	5 kg
Power Supply Voltage	85 – 240 V (universal 50/60 Hz)
Interface	Thunderbolt
Software	Windows 10, C++ Library

1. Warranty: 1 year
2. Previous experience of installation of similar items.
3. Warranty condition and previous experience of supply needs to be added.