Spectraleye™ 600 Interrogator Family



Description

The SpectralEye Interrogator 600 is a handheld interrogation system for Fibre Bragg Grating (FBG) sensors.

This device provides powerful, reliable, easily integrated measurement options, for Fiber Bragg Grating and other optical sensor developers and system integrators. The speed, narrow linewidth and superb repeatability of the integrated Optical Spectrum Analyser (OSA) provide the accuracy and resolution needed for a wide range of optical sensing applications.

With its rugged design, configuration flexibility, small size, standard integrated battery and low cost, Spectraleye Interrogators are designed to meet the diverse needs and challenging requirements of the fiber optic sensing community.

Operational flexibility is another important advantage of the SpectralEye Interrogator family. Application software can be customized to display temperature, strain or any other physical parameter. SpectralEye Interrogators can even be operated in a passive optical spectrum analyzer mode, displaying power versus absolute wavelength and can be directly controlled using a laptop or other PC for on-line monitoring. An optional integrated HP iPAQ™ Pocket PC provides extended communications, control, storage, and display flexibility.

FOS&S

Fiber Optic Sensors and Sensing systems

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Released: May, 2005

Spectraleye™ 600 Interrogator Family

Features

- 10pm Wavelength Accuracy
- 38nm Scan Range
- 500 µW Launch Power
- 1pm Resolution
- Fast Scan time
- 90 Minute Battery Operation
- RS-232 Interface Extended communication
- Wi-Fi Interface
- USB

Applications

- Pipeline Stress Monitoring
- Offshore Oil Platform Riser Stress Monitoring
- Oil well Temperature and Pressure Monitoring
- High-Tension Line Temperature Monitoring
- Geotextile Strain Monitoring
- Security / Defense Fence Monitoring
- Civil Structure Stress and Strain Monitoring
- General purpose Optical Spectrum Analysis

Standard specifications

	SE-600		
Parameter	**Min**	**Max**	**Units**
Wavelength Range	1527	1565	nm
Source Launch Power in SMF	500		µW
Wavelength Accuracy*	±10		pm
Wavelength Resolution	1		pm
Scan Time	1		Sec.
Dynamic range	20		dB
Loss budget	15		dB
Operating Temperature	0	40	°C
Weight	1.3		kg
Battery Life	90		Min.
Mechanical Dimensions	200 X 135 X 45 mm 7.9 X 5.5 x 1.8 inches		
Interfaces			
RS-232	DB-9		
USB 2.0	USB-B		
Optical	FC/APC		
Battery Charger	DC-input jack		

** One-Year continuous operation*

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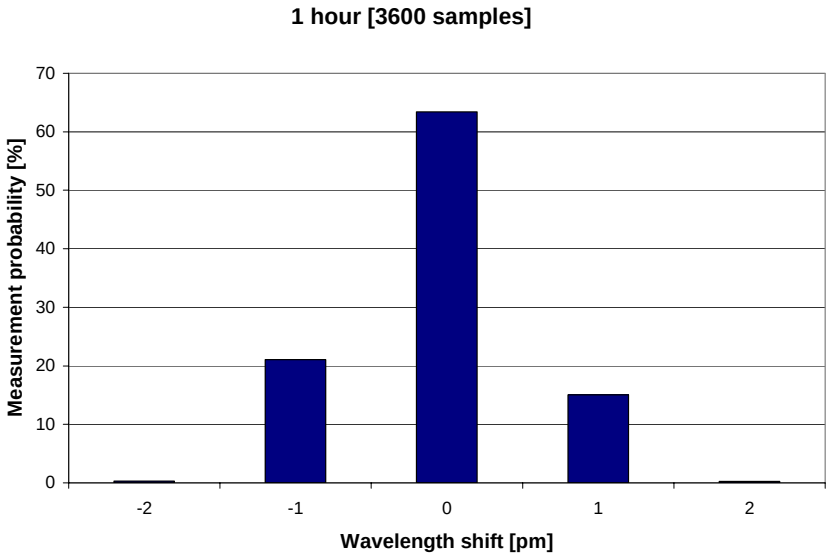
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Wavelength stability



Ordering information

Please contact FOS&S

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