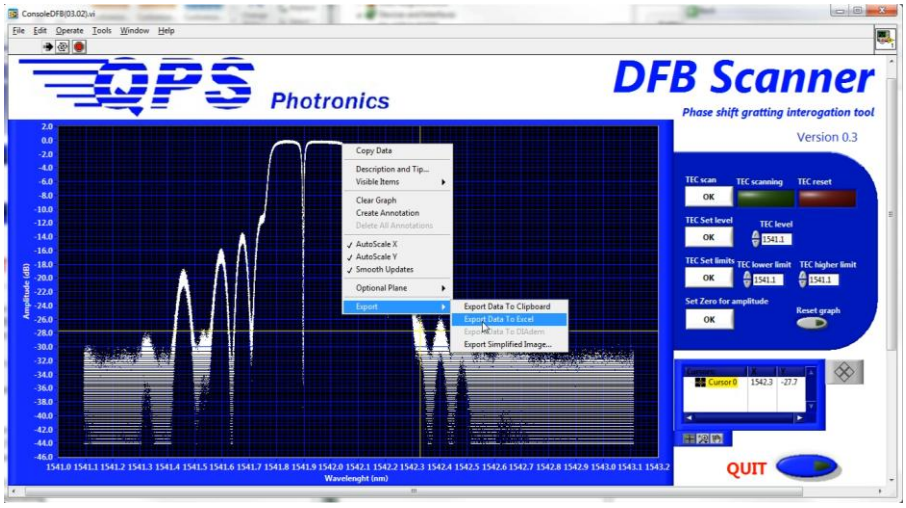
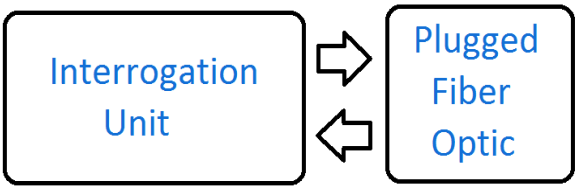
DFB Scanner®

High Finesse Vibrofibre™

The High Finesse Vibrofibre™ is a recent breakthrough that spurred the DFB Scanner® into existence. The FBG-based architecture is a narrow cavity (Phase-Shifted Grating) whose internal fiber mirrors enable very high reflectivity., resolution capability resulted in a boost. Our High Finesse Vibrofibres™ are manufactured by selecting phase masks that match closest to the interrogator embedded DFB laser center wavelength (1542.9 nm) at 5°C.



Working Principles



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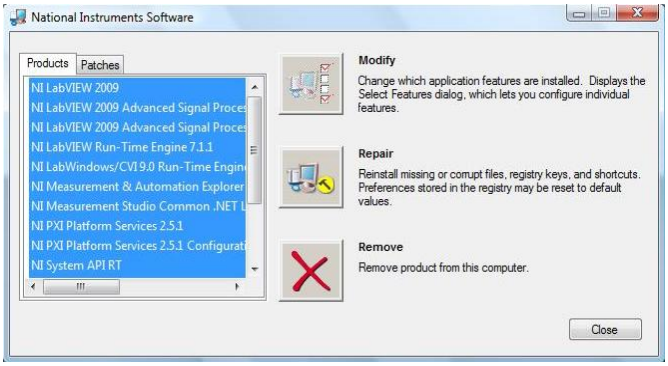

Specifications of the DFB Scanner® System

High Finesse Phase-Shift Grating Sensor (Accessory included with the System)		
	Minimum	**Maximum**
Center Wavelength (nm)	1530	1565
Wavelength Tolerance (nm)	±0.1	±0.2
Grating Cavity Length (mm)	1	20
Operating Pressure:	100psi	
Fiber Connector:	SC/APC(default) / FC/APC(customized)	
Non-Destructive Temperature:	-40°C to 125°C	
DFB Scanner® Interrogator		
Output:	0~5V 4~20mA	
Resolution:	Strain: 0.001 με	Temperature: 0.001 °C
DFB Laser Wavelength Tunability Range	1541.1 to 1543.1 nm (Δλ=3 nm)	
Center Wavelength :	1542.9 nm	
Residual Noise:	<3mVrms overall noise	
Operating Temperature :	5°C to 40°C (in practice, ceiling temperature equals to 35°C)	
Ideal Environment of Use or Storage	Stable Temperature Environment at 25°C. Heavy humidity to be avoided.	
Fiber Connector:	SC/APC(default) / FC/APC(customized)	
Computer Interface:	USB 2.0	
Supply Voltage:	100-200 Vac 50/60Hz	
3U Portable Casing Size:	366mm(W) x 147mm(H) x 325mm(D)	

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