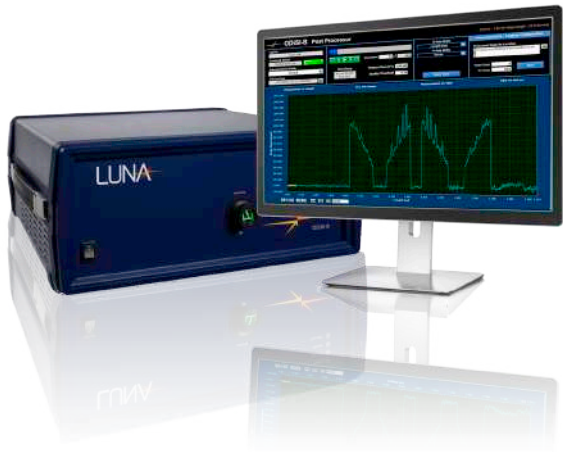




# Introducing the ODiSI-B 5.0 for Strain & Temperature



## ODiSI - Key Benefits

- High definition sensing offers unprecedented visibility into a design's structural performance
- Low profile and flexible sensors ideal for embedding within composite structures and measuring strain on curved surfaces
- Corrosion resistant, dielectric, and immune to EMI/RFI
- An ideal tool for validating FE models of composite structures

## ODiSI-B 5.0 New Features

### Two Sensing Options — High-Definition and High-Speed CFG\*

High-Definition sensors offer a lower priced consumable sensor with ultra high spatial resolution; The High-Speed Continuous Fiber Gratings (CFG) option has greater dynamic sensing capability while still offering high spatial resolution.

### Robust Sensing with Ruggedized Cable and Connectors

Industrial grade stand-off cable and connectors are suitable for harsh environments and rough handling. The optical network has been upgraded and offers significantly higher tolerance to ambient vibration.

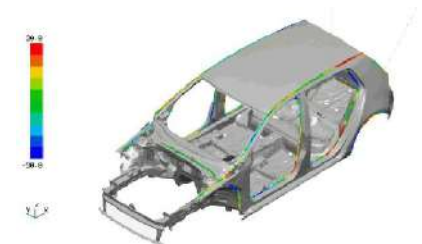
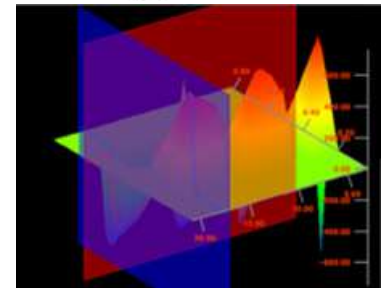
### Data Visualization with CAD Integration\*

The high spatial resolution of the ODiSI reveals important information about test articles not visible with traditional sensing methods. Luna's new data visualization tool set helps engineers to quickly identify key areas of interest, reduce file size, analyze data and generate reports.

### Strain Sensors with NIST-Traceable Calibration

Strain sensors are calibrated to NIST-traceable standards. A certificate of conformance is shipped with every strain sensor.

\*High-Speed CFG module and 3D data visualization package sold as options.



[www.lunainc.com](http://www.lunainc.com)

301 1<sup>st</sup> Street, SW, Suite 200 | Roanoke, VA 24011

[solutions@lunainc.com](mailto:solutions@lunainc.com)

540.769.8400



# ODiSI-B 5.0 UPGRADE OPTIONS

## Upgrade to ODiSI-B 5.0:

If you are already an ODiSI user then we have an upgrade option just for you! We'll give you ODiSI-B 5.0 performance, an upgraded PC, a thorough alignment, test, and inspection, all at a fraction of the new unit cost.

## Upgrade Incentive:

- An upgraded optical network provides significantly improved resilience to ambient vibration
- Ruggedized connectors and stand off cable
- Upgrade to ODiSI-B 5.0 enables use of High-Speed CFG sensing option
- An upgraded PC
- System alignment and test

## The ODiSI-B 5.0 High-Speed CFG Specifications

High-Speed CFG remote module and sensors purchased separately as an option.

High-Speed CFG available only in strain and compatible with 23.8 Hz and 100 Hz modes.

High-Speed Continuous Fiber Grating (CFG) Sensing		
Operating Mode	23.8 Hz Mode	100 Hz Mode
Sensor Length	2m or 5m	2m or 5m
Strain Range	$\pm 7500 \mu\epsilon$	$\pm 1400 \mu\epsilon$
Gage Length	1.3 mm with 0.65 mm pitch	5.2 mm with 2.6 mm pitch
Cyclical Loading Capability	Up to 1/2 data acquisition rate, depending on amplitude of load	

**For more information, contact [solutions@lunainc.com](mailto:solutions@lunainc.com)  
and ask for ODiSI-B 5.0 upgrade information.**

