

SENSING ANALYSIS SOFTWARE | ENLIGHT



APPLICATIONS

- > Simplified data acquisition from interrogation modules
- > Optical wavelength conversion to engineering units and measurement quantities
- > Wavelength provisioning tools
- > Alarm configurations and alert options
- > Graphical and schematic data visualization modes
- > Automated archive data storage

FEATURES

- > Results in engineering units: easily translate wavelength information to the measurements of interest.
- > Automatic temperature compensation: build transducers that include multiple FBG wavelengths for temperature compensation or special measurements.
- > One tool, many applications: manage data from multiple sensor sites. Store configurations and settings.
- > Intuitive data display: use charts,
- > alarm limits, images and three distinct visual indicators to clearly communicate measurement status and condition of structure
- > Always on, always reliable data archive; In software database visualization. Remote data access capabilities. No setup required.

COMPUTER REQUIREMENTS

- > Windows OS, minimum 1GHz Pentium v, 1GB RAM, 30GB disk storage, .NET 4 framework
- > Optional: Microsoft Silverlight™

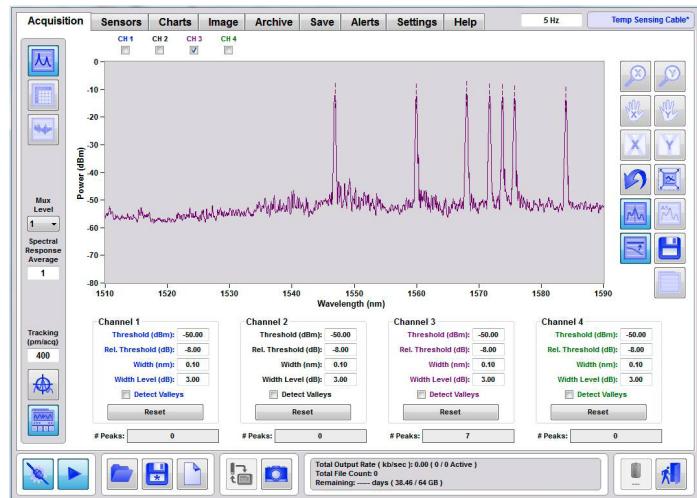


Products displaying the "Micron Optics Tuned" logo include Micron Optics tunable technologies ensuring high quality and performance.

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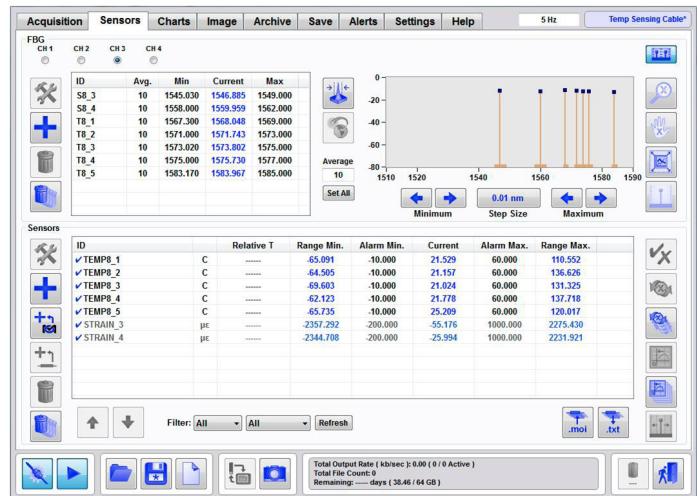
Acquisition Tab

- Manage data connections
- Optimize and engage spectral peak detection
- View FBG spectral or peak data
- Configure module specific settings
- Enable channel multiplexing
- Display and save FFT information



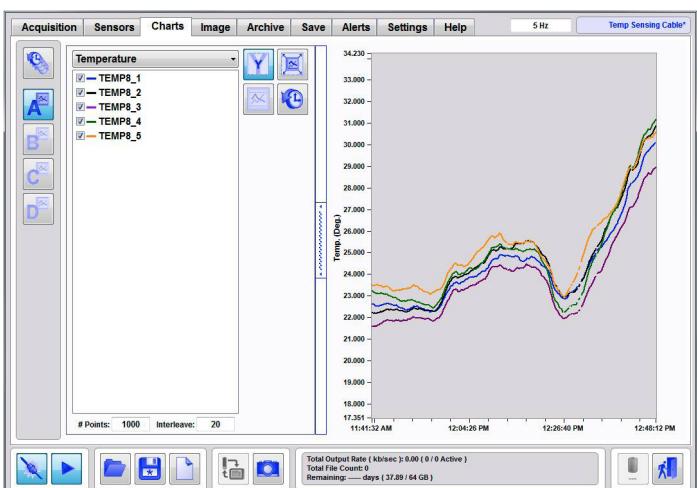
Sensors Tab

- Define wavelength ranges for FBG peaks
- Perform averaging, referencing, and other data processing functions on FBGs
- Define sensors quantities (strain, temperature, displacement, pressure, or custom) based upon one or more FBG inputs
- Create calculated macro-sensor elements (e.g. combine two or more FBGs in one sensor value)
- Define sensor ranges, set warning and alarm limits
- Easily add Micron Optics sensors using pre-configured sensor templates with auto-insertion of standard constants



Charts Tab

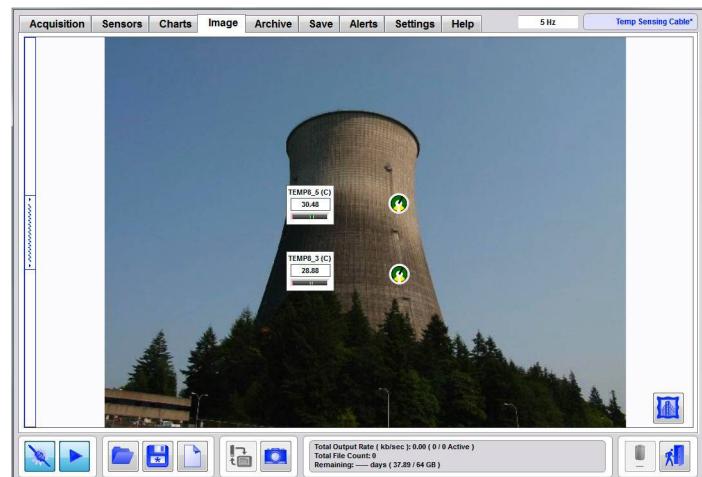
- Combine like sensors together on the same chart
- Display up to four charts simultaneously, each with multiple sensor display capability
- Show/hide alarm limits where needed
- View historical data
- Synchronize multiple charts



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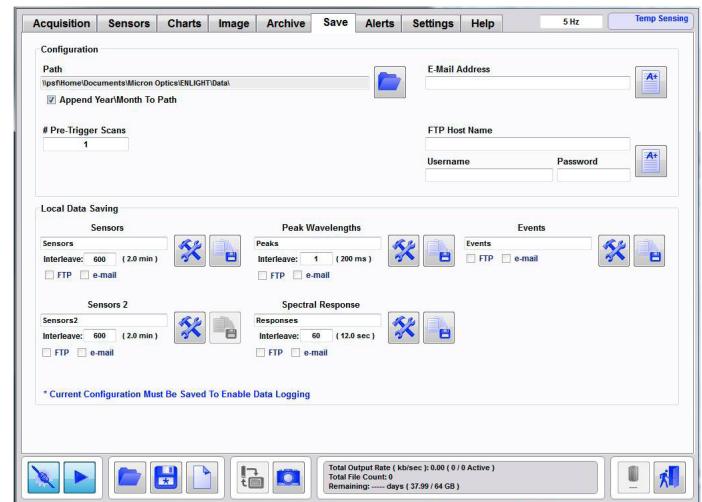
Image Tab

- Import custom image for each application
- Choose from three types of sensor status indicators
- Position indicators directly on any image
- Receive fast visual updates on sensor status



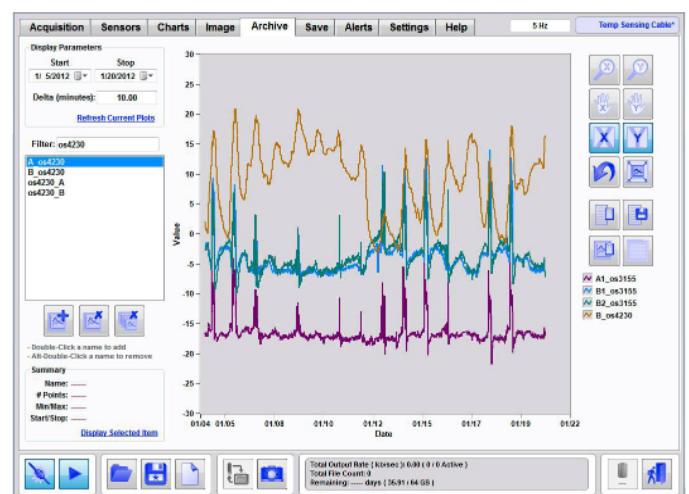
Save Tab

- Save data for sensors, peak wavelengths, spectral responses and events
- Save data by stop/start time, scheduled, repeated or triggered events
- Select triggered acquisitions and include pre-trigger data
- Manage files by time, date or file size



Archive Tab

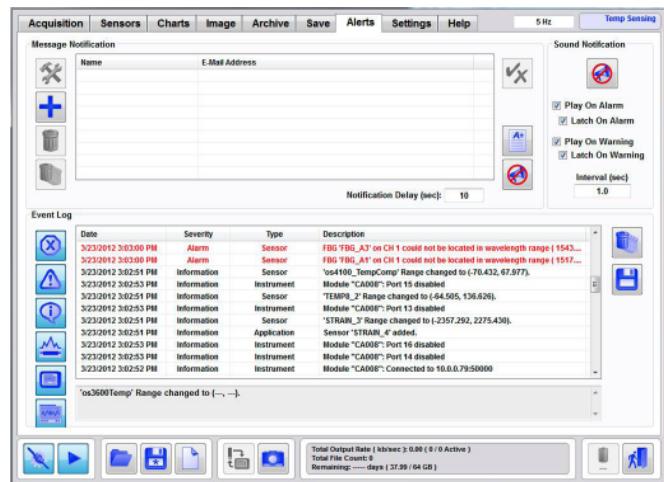
- Automatically store active FBG wavelengths and defined sensor quantities
- View single/multiple Archive entries in user-adjustable chart
- Query Data Archive using ENLIGHT Remote Command Interface (TCP commands), RESTful interface (HTTP), or a Silverlight™ web interface
- Export the displayed chart or raw data to either a text file or the clipboard



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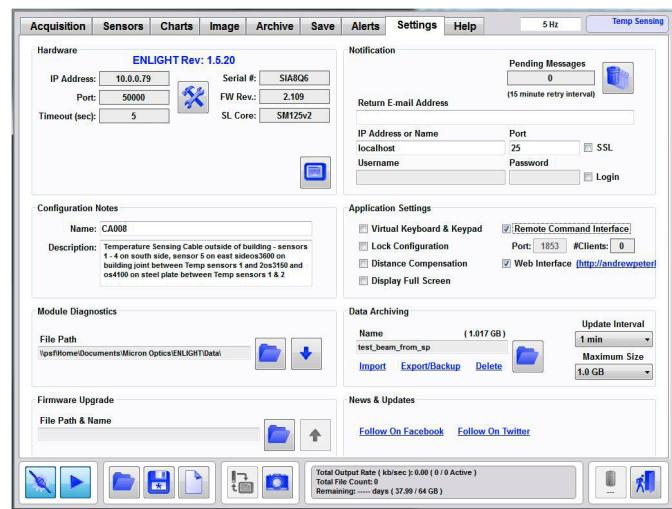
Alerts Tab

- Selectively view information, warnings and alarms associated with sensor, software and instrument events
- Set notification instructions by type and condition for multiple e-mail addresses
- Trigger relays to physical devices (using sp) for audible alarms, warning lights and lights



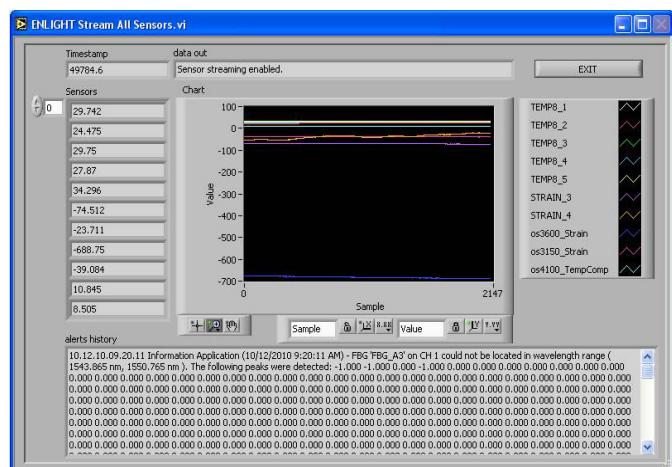
Settings Tab

- View and set instrument IP address and communication preferences
- Define e-mail notification settings
- Download on-board module diagnostic files
- Manage firmware upgrades
- Enable remote command interface to external applications, displays, analysis tools and control systems.
- Maximize display to full screen



Help Tab and Global Controls

- Access the complete ENLIGHT manual for full description of all software functions, hardware and instrument capabilities
- Global controls on any tab allow:
 - connect/disconnect from instrument
 - stop/start acquisitions
 - open/save configurations
 - download configurations from memory stick
 - capture screen shots and save



Remote Command Interface

- Create custom GUI's to display data, control processes and trip alarms
- Call or stream sensor data
- Run ENLIGHT in background