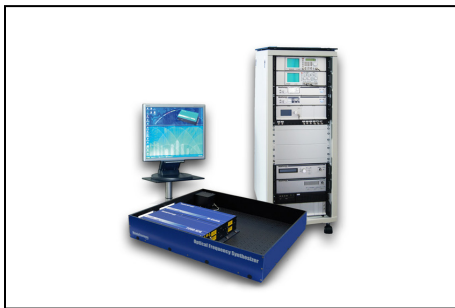


Newsletter – Jul 2013

Wavelab Scientific is a leading company for software and hardware products for the Photonics industries.

We are pleased to present you with updated technology information. Do not hesitate to contact us if you have any query.

1. Optical Frequency Combs



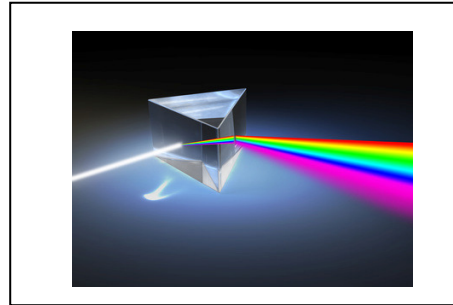
Frequency comb technology makes direct measurement of absolute optical frequencies possible. The FC1500 Optical Frequency Synthesizer is a compact, portable and flexible fiber-based femtosecond frequency comb system.

With the Extension Packages M-VIS and M-NIR the system is capable of providing at the same time a source for frequency metrology in both the visible (530-900 nm) and the near-IR regions (1050-2100 nm) of the spectrum.

Applications:

- Dimensional Metrology
- FTIR Spectroscopy
- Calibration of Lasers

- High Resolution Spectroscopy and Wavemeters
- Precision Radio Frequency Sources



2. USB Camera



These cameras are equipped with a super-speed USB3.0 interface that can deliver a transfer rate of up to 400 Mbytes per second, which is 10 times the USB2.0 speed, 3.5 times GigE speed and 6 times Firewire-800 speed.

Applications:

- Machine vision systems
- Medical imaging and engineering
- Digital microscopy
- Web camera and security

3. Raman Spectrometer



Features

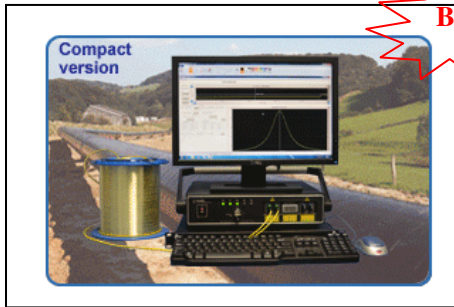
- Low cost - Ruggedized - High performance
- Shock proof - Permanently aligned optics
- Standard Fiber interface to Raman probes
- SpectraWiz Software and SDK included Free
- Simple USB2 interface to Netbook & PC's

Applications:

- perform quick identification of a variety of liquid, solid, or powder samples



4. Strain and Temperature Sensors



Best!

Features:

- Uses standard telecom fibers for simultaneous measurement of temperature and strain
- Real-time measurement of strain and temperature
- BOTDA with optional BOTDR and OTDR built In
- High spatial, strain, and temperature resolution and accuracy
- Measurements can be made over the entire length of fiber, up to 100 km in length

Applications:

- Oil and gas pipeline monitoring
- Bridge and dam monitoring
- Power line monitoring
- Fire detection
- Crack detection
- Smart structures and structural health monitoring (SHM)
- Security monitoring

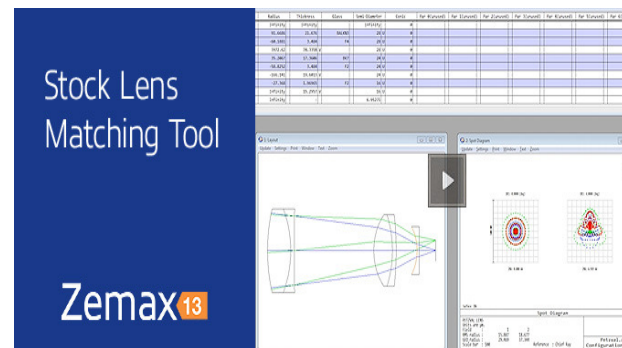
* Return if not satisfied with the Stress/Strain sensor system



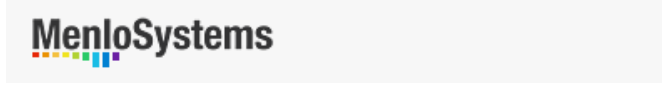
5 ZEMAX 13 Release two has been launched

New Features Include:

- Stock Lens Matching Tool
- BSDF Material Model Library
- NSC Source Diffractive Tool
- Grid Gradient Index in NSC
- See all [features](#)



We are proud to represent the following companies presented in this newsletter and hope we can support you in one way or another :



- Freq comb, THz and Femtosec laser



- Vision, CCD and LED Light Sources



- Spectrometers and Light sources



- Fiber Optics

The Wavelab team who is there for You!



(From left): Vijay, Yvonne, Peng Peng, Sam, John and Edwin