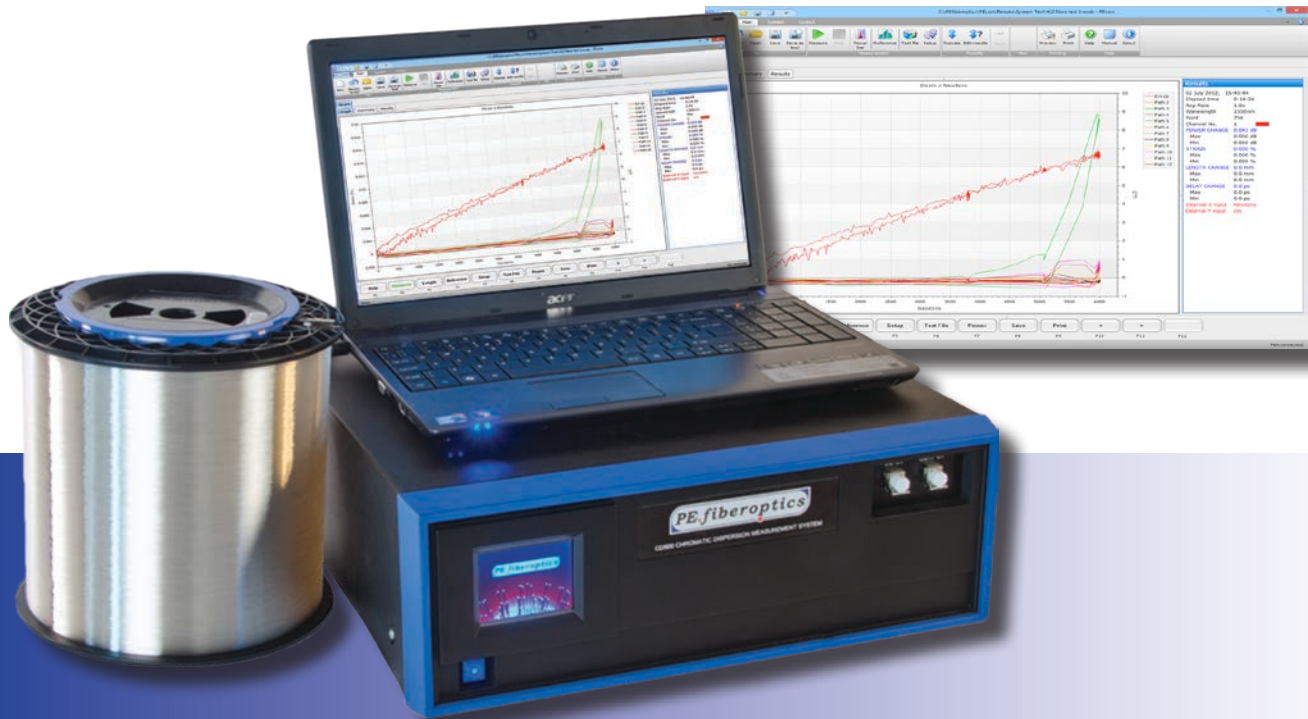


# SPL500 Cable Strain measurement system

NEW



- All new design
- Fiber length with sub-millimeter resolution
- Transmitted Optical power
- Fully IEC, TIA and ITU compliant
- Multiplex option to automatically measure multiple fibers.
- Available in three versions:
  - **SPL500-1** Single wavelength.
  - **SPL500-2** Dual wavelength.
  - **SPL500-MW** Multiple wavelength.
- Options for Chromatic Dispersion, Pmd and Ribbon Fiber Skew
- New operating software 'PECON' runs on Windows XP™, 7 and 8.
- **PECON** is built on the Microsoft® .NET Framework
- Built-in Report Designer

Continued innovation and investment at **PE.fiberoptics** has yielded yet another major improvement in the series of Fiber Strain measurement systems that began with the SPL3 and happily continues with the **SPL500**.

New from-the-ground-up DSP and detection technology reduces measurement noise and greatly improves measurement speed.

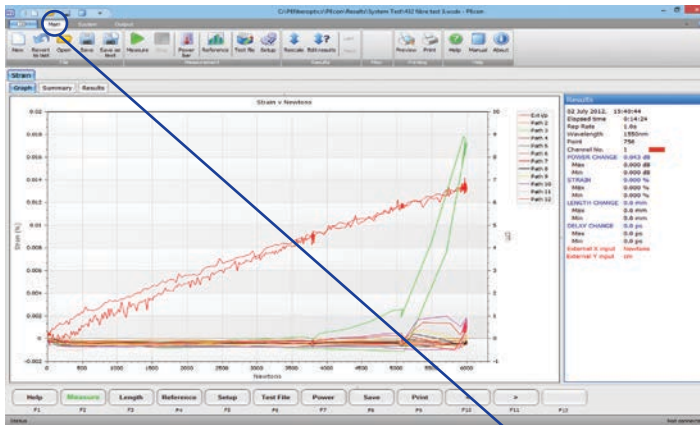
All internal modular subassemblies employ TWI/I<sup>2</sup>C and RS485 technology, enabling comprehensive control over every aspect of system operation including temperatures and resulting in greatly enhanced stability.

Considerable investment has been made in the programming to control the system. **PE.fiberoptics'** latest controller package '**PECON**' has been built on the Microsoft® .Net Framework which has resulted in an all-new software package that maintains our philosophy of simplicity, stability and user friendliness, whilst adding powerful features such as an all-new Report Designer.

Microsoft, .NET Framework and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

## PE.fiberoptics

PECON Instrument control software.



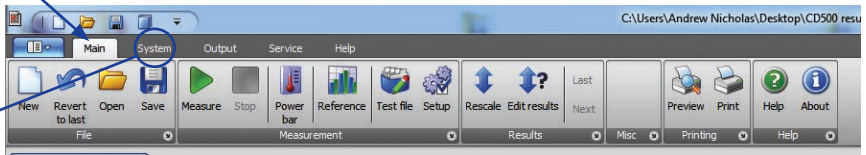
PECON is the name given to a suite of software, designed to support a complete new range of instruments starting with the CD500 and now the available on the SPL500.

From the beginning, our philosophy has been to keep our product up-to-date with the latest technology whilst still maintaining the ease of use and reliability for which we have come to be known. We believe that with PECON, we have succeeded.

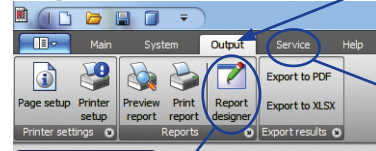
The structure has remained simple, with most common functions being available either from the 12 function keys at the bottom of the screen, or the Ribbon tabs at the top of the screen.

Where possible, menus have been limited to 1 level deep.

Each tabbed Ribbon is configured logically with functions relative to that context being included. Inactive Ribbon tab headers remain visible allowing quick navigation between the

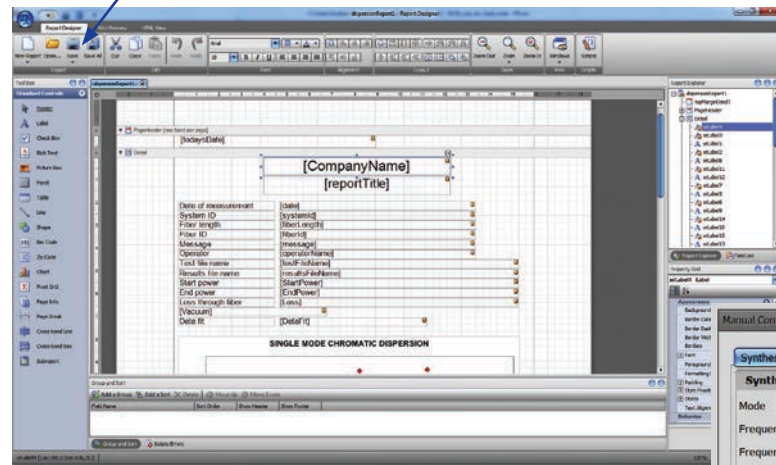


different sections.



Easily the most significant addition to our control software is the Report Editor.

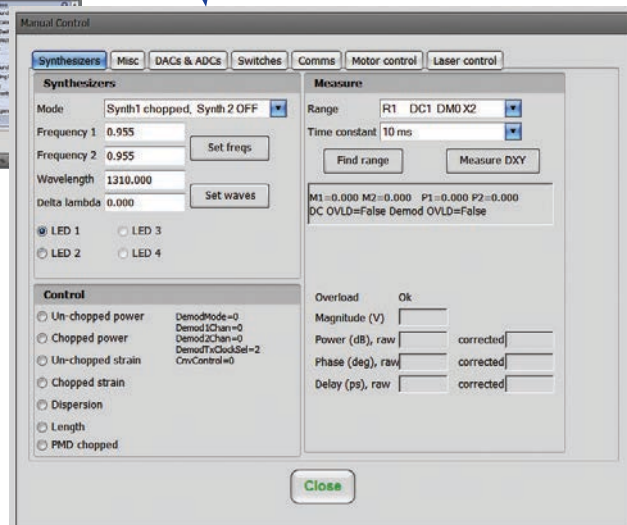
Located in the 'Output' Ribbon tab, the report designer enables for the first time, user definition of what is reported, how it is reported and the layout of that report.

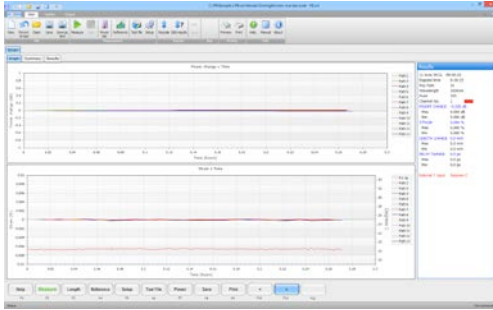


Once defined, the report can be used for printing, converting to PDF, exporting to Excel or HTML, or saving as text/csv files.

Any number of reports can be stored for use as and when required.

Not to be forgotten is the role of support, and in this regard, the software delivers; access to valuable diagnostic tools in the service menu is available for authorised engineers by means of a password.





### SPL500 Dual Strain Mode.

The **SPL500** is able to simultaneously measure changes in fiber Elongation and Attenuation at the same time as acquiring other data such as Cable Extension, Mechanical Load, Environmental Temperature and other desired variables.

### SPL500-MW Multiple Wavelength Testing Mode

The **SPL500-MW** option utilizes the systems wavelength programming capability to enable the system to test more than one wavelength at the same time, reducing the need for repeat tests.



### SPL516 Multiplexer.

The **SPL516** options adds a level of automation to everyday testing, allowing measurements to be made on multiple fibers with a single button press.

Measurements that can be automated include Cable Strain (**SPL500**), Chromatic Dispersion(**CD500**), PMD (**CD500/PMD500**), and Spectral Loss Monitoring(**SM500**)

## Ordering information

Fiber Strain			
BASE MODELS	<b>SPL500-1</b>	<b>SPL500-2</b>	<b>SPL500-MW</b>
Wavelengths provided	1310nm or 1550nm	1310nm and 1550nm	1250nm to 1630nm
FEATURE OPTIONS			
<b>SPL516/N</b>	N-channel integrated multiplex option package. N can be specified as any number of channels to suit your application.		
<b>SPL509SKW</b>	Ribbon Fiber Skew. <i>(Requires SPL516/N configured for the number of fibers to be tested)</i>		
<b>SPL561</b>	Depolarizer for improved performance with <b>SPL516</b> option.		
<b>SPL-CD</b>	Chromatic Dispersion measurement option. <i>(Requires SPL500-MW)</i>		
<b>SPL-PMD</b>	Polarization Mode Dispersion measurement option. <i>(Requires SPL500-MW)</i>		
<b>SPL-SM</b>	Spectral Loss monitoring option. <i>(Requires SPL500-MW and SPL516/N)</i>		

*All specifications are typical and are subject to improvement or modification without notice or obligation. Please refer to any formal offers for specification guarantees.*

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This product complies with 21 CFR 1040.10 Class 1 LED product

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