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Your Optical Fiber Solutions Partner



Polarization changes in the optical network are becoming more important to optical system vendors and network operators. Small variations in the state of polarization (SOP) and degree of polarization (DOP) can lead to changes in network performance. Therefore, real-time measurements of polarization related network parameters are desirable. Measurement and calculation of the Stokes parameters are required to accurately monitor polarization dependent loss (PDL), polarization-mode dispersion (PMD), degree of polarization (DOP) and even the optical signal to noise ratio (OSNR). Collecting and processing these parameters require a high-speed polarization measurement solution to aid in monitoring and managing the operation of today's optical networks.

OFS TruePhase® IPLM Inline Polarimeter

OFS is the first to offer TruePhase® IPLM Inline Polarimeter, a truly commercial, network grade, polarimeter designed to satisfy these market requirements. The TruePhase IPLM in-line architecture enables high-speed polarization measurements of the light transmitted through the all-fiber Polarimeter with minimal loss and without compromising the data traffic. The TruePhase IPLM can be used to determine DOP, SOP, and Optical Power, as well as characterize other key network performance parameters such as OSNR and PMD. Compared to other solutions or bulk optics polarimeters, the TruePhase IPLM is ideal for integration with telecom systems, diagnostic applications for optical channel monitoring and test & measurement (T&M) equipment.

OFS announced commercial availability of the TruePhase IPLM in March, 2011.

Key Features of TruePhase® IPLM

- All-fiber integrated optical device
- Industry's smallest form factor polarimeter
- Convenient system integration
- High-speed Stokes parameters Measurement
- SOP and DOP Measurements
- Complete evaluation platform with USB interface

New Ridge Technologies NRT-2550

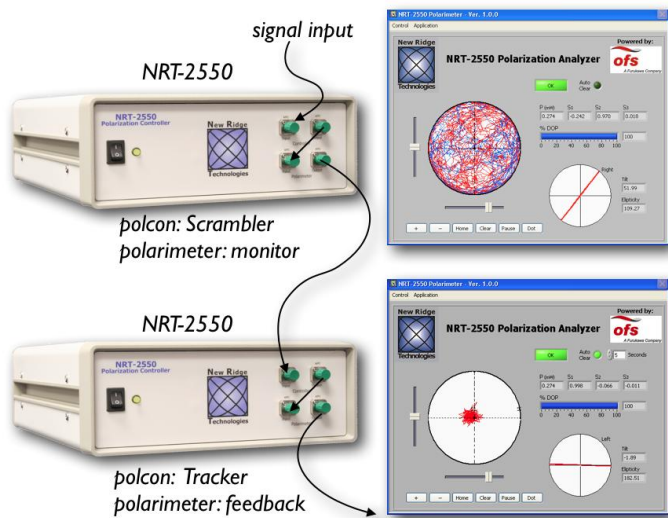
The NRT-2500 is a powerful and versatile polarization control platform designed to implement a variety of very fast, very accurate and very reliable polarization applications. Presently, the platform offers Scrambling, Randomizing, Spinning, Setting and Tracking polarization applications. The new Spinning application on the NRT-2500 can endlessly rotate the SOP up to 50 kHz as required for polarization testing of coherent DP-QPSK transponders.

New Ridge Technologies is pleased to announce the expansion of the NRT-2500 product line to include the TruePhase IPLM Inline Polarimeter. With the introduction of the new NRT-2550, New Ridge adds polarization state analysis to complement its present polarization control capabilities. The NRT-2550 is an all-in-one solution for polarization test and measurement.

The NRT-2550 provides both input and output ports to the TruePhase IPLM enabling both off-line and in-line polarimeter applications. The four Stokes parameters are simultaneously measured, with a fast detector response time and a high sampling rate, to provide SOP and DOP. New Ridge's open architecture of the NRT-2550 allows for the creation of a variety test and measurement applications to meet your lab needs.

The NRT-2550 is expected to be available in early 2012.

The example setup below shows a set-up cascading two New Ridge Technologies NRT-2550s using both polarization controllers and both in-line to first scramble, and then track the polarization to a specific SOP.



Key Features of NRT-2550

- All-in-one solution for polarization T&M
- Polarization state analysis capabilities
- Powerful and versatile polarization control platform
- Fast response time
- High sampling rate
- Open architecture suited for customization

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About OFS Fitel LLC

OFS Specialty Photonics is an industry leader for optical innovation as a world-leading designer, manufacturer and provider of specialty optical fibers, fiber-based devices, gratings, optical connectivity and specialty photonics products. The TruePhase® IPLM Inline Polarimeter module is another patented innovation that leverages OFS competencies in fiber technologies, optical fiber design, fiber gratings and lasers.

About New Ridge Technologies LLC

New Ridge Technologies, founded in 2003, designs and manufactures fiber optic test and measurement equipment, specializing in polarization control and PMD. Their versatile polarization controllers have five modes of operation. The well-known New Ridge Technologies PMD sources use unique and patented coherent PMD generation technology to provide the world's most sophisticated, most realistic and always deterministic PMD states for the greatest accuracy in PMD tolerance testing.

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