Fiber optic system suppliers need more speed, resolution, dynamic range and accuracy with each round of product development. General Photonics’s innovative products include the most accurate PMD measurement on the market, the only spatial birefringence analyzer, the only instrument capable of analyzing polarization evolution along an optical fiber and PIC, and the only instruments using magneto-optic crystals.

OPTICAL INSTRUMENTATION
for WDM components and PICs
**OPTICAL COHERENCE DOMAIN REFLECTOMETER InsideView**

**OCDR-1000**

A breakthrough instrument capable of analyzing polarization evolution along an optical fiber. It obtains four measurements: birefringence (transverse stress), optical path discontinuities, refractive index, and 1 fs to 400 ps (ext. laser, 0.01 nm <

**POLARIZATION MEASUREMENT SYSTEM PolaWise™**

The PolaWise measurement system from General Photonics is the most accurate product on the market for analyzing PDL, FDL, and other polarization related properties of optical fibers. It allows for fast design iterations using-magneto-crys-

**PDL MULTICOMMUNICATION POLARIZER PolaCheX™**

Using patented maximum and minimum search method (compliant with TIA EIA-455-39b), General Photonics’ PolaCheX simultaneously measures the Polarization Dependent Loss (PDL), Insertion Loss (IL), and optical power of a decoder under test in just 30ms.

**POLARIZATION ANALYZING OFDR PolaMagic™**

The OFDR-1000 is a polarization analyzing optical frequency domain reflectometer, an advancement in instrument technology by allowing polarization evolution along an optical fiber. It obtains four measurements: birefringence (transverse stress), reflection, strain and displacement along optical paths or waveguide.

**POLARIZATION DEPENDENT RESPONSE MULTIMETER PolaPix™**

General Photonics’ PDR-201 simultaneously measures the polarization dependent response and conversion loss in just 20ms, and is an ideal tool for characterizing the total repeatability and polarization dependence of optical integrated circuits with phasemeter for output. It covers a wide wavelength range without wavelength calibration. The PDR-201 comes with two optical ports and electrical input port (BNC).

**MULTICOMMUNICATION OPTICAL COMPONENT ANALYZER OptiCheX™**

The OCA-1000 is a multi-channel optical component analyzer that simultaneously measures insertion loss (IL), polarization dependent loss (PDL), and Power (P) measurements on multiple optical paths. The measurement is based on Muller Matrix method. This OCA-1000 characterizes multiple port components and modules, including CMOSs, SOA, AWGs and PICs. It requires a tunable laser from EXFO, Keysight or Santec.

**APPLICATIONS**

- PDL vs. wavelength measurement
- IL vs. wavelength measurement
- IL vs. PDL measurement
- PDL vs. time
- PDL vs. pass band parameters
- User-friendly control program

**FEATURES**

- 32-measurement speed
- Wide wavelength range
- High PDL accuracy
- High channel-to-channel uniformity
- USB removable data storage
- Flip-top graphic display
- External LCD monitor enabled
- Ethernet for remote operation
- Analog PDL output

**PER Measurement Range**

IL: ±0.05 dB + 2% of PDL

PDL: ±0.05 dB + 2% of PDL

**PER Dynamic Range**

IL: > 40 dB

PDL: > 40 dB

**PDL Accuracy**

±0.05 + 2% of PDL

±5 fs + 1% of DGD (1280 to 1340 nm version)

±1 fs to 400 ps (ext. laser, 0.01 nm <

**APPLICATIONS**

- IL vs. wavelength measurement
- PDL vs. wavelength measurement
- PDL vs. PDL measurement vs wavelength
- PMD measurement vs wavelength
- IL vs. wavelength measurement
- PMD measurement vs wavelength
- PDL measurement vs wavelength
- IL vs. wavelength measurement
- IL vs. wavelength measurement
- PMD measurement vs wavelength
- IL vs. wavelength measurement
- IL vs. wavelength measurement
- PMD measurement vs wavelength
- IL vs. wavelength measurement
- IL vs. wavelength measurement
- PMD measurement vs wavelength
- IL vs. wavelength measurement
- IL vs. wavelength measurement
- PMD measurement vs wavelength
- IL vs. wavelength measurement

**FEATURES**

- 30ms measurement speed
- Wide wavelength range
- High PDL accuracy
- Analog PDL output

**Wavelength Range**

1260 to 1620 nm

PDL Dynamic Range

0 to 45 dB

Resolution

0.01 dB

IL Accuracy

±0.05 + 2% of PDL

PDL Accuracy

±0.05 + 2% of PDL

PDL Dynamic Range

0 to 45 dB

Resolution

0.01 dB

IL Measurement Range

3 to 60 dB (single point or stepped wavelength sweep mode) or 0.55 dB (continuous wavelength sweep mode)

PDL Measurement Range

0 to 20 dB

Resolution

0.002 dB