WDM-Expert software is an analysis package for use with data captured from the Viavi Solutions® OSA-110/500 optical spectrum analyzers (OSA) for T-BERD®/MTS-6000A and ~8000 platforms.

Network equipment manufacturers and service providers working with DWDM fiber networks are looking for easy and fast ways to measure power, wavelength, and optical signal-to-noise ratio (OSNR) to assess the signal quality of each channel and predict bit error rates (BER). A Viavi OSA is the answer.

**Key Benefits**

- Automatic identification of data rates for faster channel assessment
- Pol-Mux signal identification and OSNR measurement for 100 G and higher-speed coherent signals
- Fast, full WDM spectrum scans
- Increased flexibility with customized results displays
- Increased productivity from user-defined templates for results tables of content

**DWDM Networks Bring Flexibility**

DWDM networks typically support up to 96 channels, with each channel spaced at 50 GHz as defined by industry standard ITU G.694. Any 2.5/10/40/100 G optical data can be carried in any of the 50 GHz channels, enabling carriers to mix and match data rates and channels as needed on their networks.
WDM-Expert Indicates Data Rates Including Pol-Mux Modulation Information of Each WDM Channel

In addition to traditional information about the wavelength, power, and noise for each channel, WDM-Expert software indicates the transmitted data rate per channel as well as the presence of 40/100 G or higher speed polarization-multiplexed (Pol-Mux) signals. This real-time functionality has no impact on the measurement times of Viavi OSA scans.

WDM-Expert software saves time:

• OSA users can now correlate OSNR results to data rates instantaneously without the need to look at a pile of network plans
• OSA users can now quickly identify Pol-Mux signals of coherent systems

WDM-Expert Increases Flexibility and Productivity with User-Defined Results Display

Traditional OSAs only display a limited amount of information in the results page. This is often inadequate for experts that want more precise spectrum-analysis data. WDM-Expert software lets users fully customize the table of results by adding, editing, or removing parameters.

WDM-Expert software provides considerable flexibility and increases productivity, letting users:

• Pick from a list of more than 50 result display parameters to match their specific applications
• Create and save up to 4 customized tables of results templates in addition to 5 pre-set tables

Ordering Information

The WDM-Expert software option #2293/94.01 can be added to an OSA-110X or OSA-500X.