

Brochure

# VIAVI

## WDM-Expert Software for VIAVI OSAs

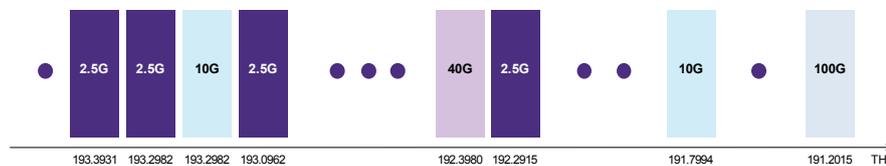
Added flexibility, new levels of functionality

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.

### 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.



### 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

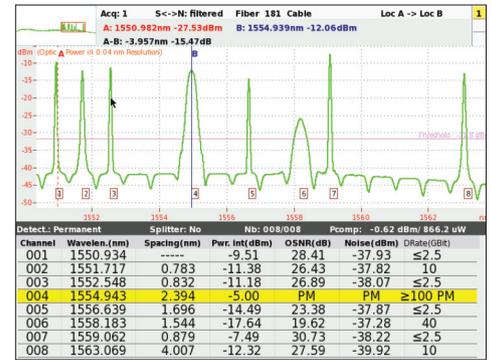


## WDM-Expert Indicates Data Rates Including Pol-Mux Modulation Information of Each WDM Channel

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.

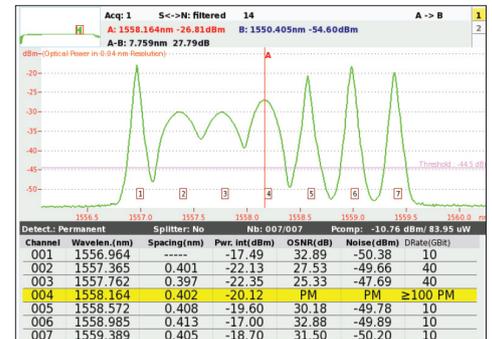
WDM-Expert software saves time:

- 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

Display	
Grid	ITU DWDM
Alarms	None
Zoom Mode	Auto
Unit	nm
Table Content	Extended

Standard	Statistics	Pass/Fail	CWDM
Extended	User Def 1	User Def 2	User Def 3
User Def 4			

Current Table	Value
Sequence Number	<input type="checkbox"/> Available
Channel ID	<input checked="" type="checkbox"/> Actual
Center [THz/nm]	Remove from Tab.
Offs./Spac. [THz/nm]	
Power Integr.	
OSNR	
Noise	
	Move Item up
	Move Item down

## Ordering Information

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



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