

ID OSA Optical Spectrum Analyzer

Features

- ✓ 312.5MHz/2.5pm Scan Resolution
- ✓ More than 50dB dynamic Range
- ✓ C Band Operation
- ✓ Ultra Compact - 1HE half size 19" rack stacking
- ✓ Rugged, no Calibration required
- ✓ USB and Ethernet Interface
- ✓ SCPI Style Remote Command Interface
- ✓ Intuitive GUI provided
- ✓ External Trigger interfaces
- ✓ Integrated Web Server
- ✓ 2 Hertz Scan Rate
- ✓ L – Band Support



Applications

- ✓ High-resolution spectral analysis
- ✓ DWDM transport testing
- ✓ OSNR characterization
- ✓ Modulated Signal characterization
- ✓ Transceiver testing
- ✓ Network monitoring



ID OSA is a versatile Optical Spectrum Analyzer for R&D and production test applications with picometer class spectral resolution across the C Band. It makes it a cost effective solution for spectral monitoring.

Two input ports with different sensitivity boost the available power range beyond 90dB allowing accurate analysis of both low power signals as well as high power DWDM bands.

The unit is extremely compact and rugged as it contains no moving parts and does not require recalibration.

It is controlled via USB or Ethernet interface. An integrated Web Server allows controlling the instrument via any Browser based device such as smartphones without software installation.

Optical Spectrum Analyzer Specification

Parameter	Specification	
Frequency Scan Range	C - Band	L - Band
Frequency [THz]	191.25 – 196.125	186.25 – 191.05
Wavelength [MHz]	1528.5 – 1567.5	1569.080 - 1609.731
Max. Spectral Sampling Resolution	312.5 MHz 2.5 pm	
Resolution Bandwidth, -3dB	1.7 GHz / 13.6 pm	
-20dB	4 GHz / 32 pm	
Absolute Frequency Accuracy	+/- 1 GHz 8 pm	
Measurement Update Rate full range, full resolution, 15.600 points	2 Updates / s	
Optical input Power range;	Standard Port	-30 – +23 dBm
	High Sensivity Port	-60 – 3 dBm
Relative Power Accuracy	0.4 dB	
Absolute Power Accuracy	+/- 0.7 dB	
Spurious Dynamic Range	> 45 dB	
Optical Return Loss	> 35dB	
Optical Input Connector	FC/APC	
Trigger In/Output	3.3V TTL (SMA female)	
Data Interfaces	USB, Ethernet	
Operating Temperature, non-condensing	0 – 40 °C	
Storage Temperature	-20 – 60 °C	
Size of device (H x W x D)	44 x 205 x 210 mm	
19 inch Half width 1HE stack size	1.7 x 8 x 8.2 inch	
Weight	< 3 kg	
Integrated Power Supply	100-240 VAC, 80VA, 50/60Hz	

Ordering Information

ID-OSA-MPD-01	OSA Main unit, C - Band
ID-OSA-MPD-11	OSA Main unit, L - Band
ID-OSA-ACC-RM-01	19 inch Rackmount kit, for 1 unit per 1 HE

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