

ID OSA Optical Spectrum Analyzer

Features

- ✓ 312.5MHz/2.5pm Scan Resolution
- ✓ More than 50dB dynamic Range
- ✓ C Band Operation
- ✓ 1 Hertz Scan Rate
- ✓ 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

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.

The optical input connector plate can be removed by the user allowing to clean the input port connectors effectively.

It is controlled via USB or Ethernet interface by a provided Graphical User Interface (GUI) for Windows PCs or by a SCPI command set.

Optical Spectrum Analyzer Specifications

Parameter	Specification
Frequency Scan Range	191.25 – 196.125 THz 1528.5 – 1567.5 nm
Max. Spectral Sampling Resolution	312.5 MHz 2.5 pm
Resolution Bandwidth	1.7 GHz 13.6 pm
Absolute Frequency Accuracy	+/- 1 GHz 8 pm
Measurement Update Rate full range, full resolution, 15.600 points	1 Update / s
Optical input Power range; Standard Port High Sensivity Port	-30 – +23 dBm -50 – 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 Storage Temperature	0 – 40 °C -20 – 60 °C
Size of device (H x W x D) 19 inch Half width 1HE stack size	44 x 205 x 210 mm 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-00	OSA Main unit
ID-OSA-ACC-RM-01	19 inch Rackmount kit, for 1 unit per 1 HE
ID-OSA-ACC-RM-02	19 inch Rackmount kit, for 2 units per 1 HE, order 1 kit per 2 Main units

Contact information

ID Photonics GmbH
Anton-Bruckner-Str. 6
85579 Neubiberg
GERMANY
Tel.: + 49 (0) 89 – 201 899 16

info@id-photonics.com
www.id-photonics.com