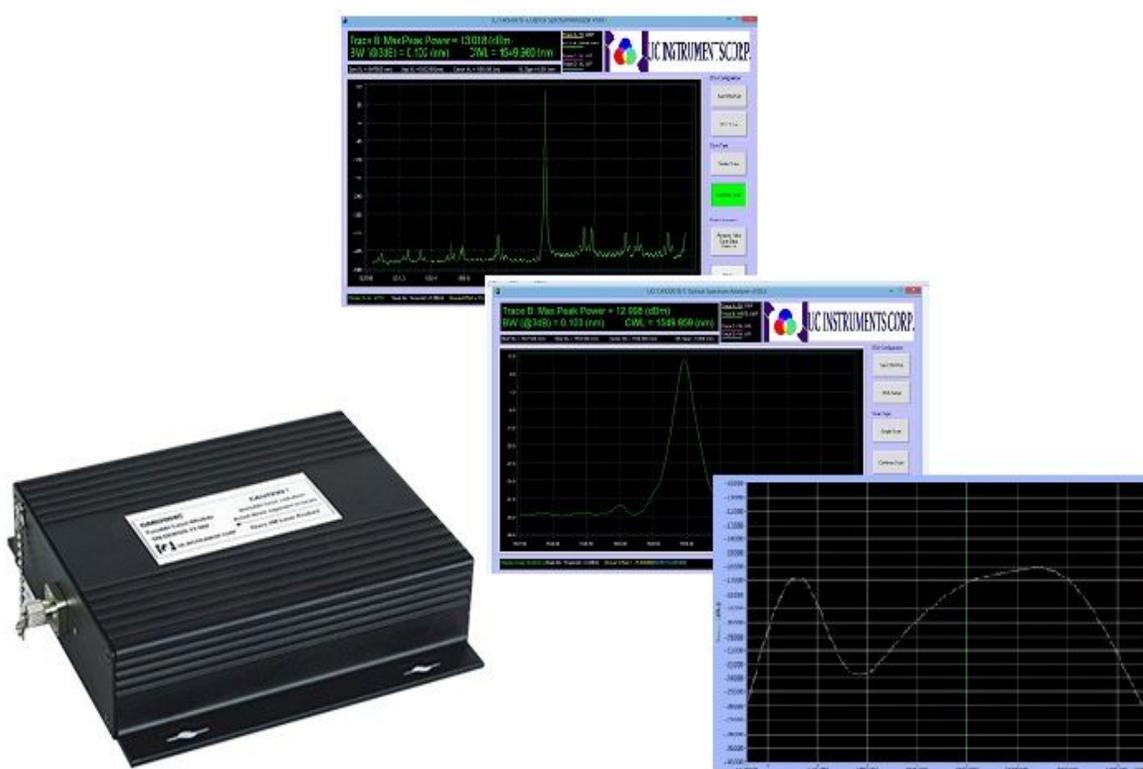


CA92001B Optical Spectrum Analyzer Module

Specification

(R100.5)



 UC INSTRUMENTS CORP.

www.ucinstruments.com

CA92001B Optical Spectrum Analyzer Module

UCINSTRUMENTS CA92001B C band optical spectrum analyzer module is a spectral engine for Process Analytical Technology applications. The OSA module acts as a stand-alone spectral engine, imaging and measuring a wide range of vapors, liquids and solids through transmission and diffuse reflection in a rapid non-destructive process. Leveraging our proprietary Micro-Optic technology, UC INSTRUMENTS' C band OSA module features the following characteristics: (1) compact; (2) light-weight; (3) low power consumption; and (4) wide wavelength coverage. These characteristics of UC INSTRUMENTS' compact OSA engines are suitable for a variety of handheld, portable or bench-top OSA/spectrometer applications. Equipped with a state-of-the-art internal wavelength reference, the OSA module is capable of precisely measuring optical spectrum. Because it does not require an expensive InGaAs detector array, the compact OSA module is a cost-effective alternative to other grating-based OSA/spectrometer engines. The OSA communicates with a PC or an instrument motherboard via an USB interface. UCINSTRUMENTS' OSA module platform can be installed or co-packaged into existing NIR OSA/spectrometers as a cost-efficient alternative to other scanning optical engines.

Applications

- Analytical instrumentation
- Telecom networks installation and maintenance
- Pharmaceutical manufacture
- Chemical & petrochemical manufacture
- Food, beverage & dairy processing
- Environmental testing
- Defense industry
- Optical performance monitoring

Key Features and Benefits

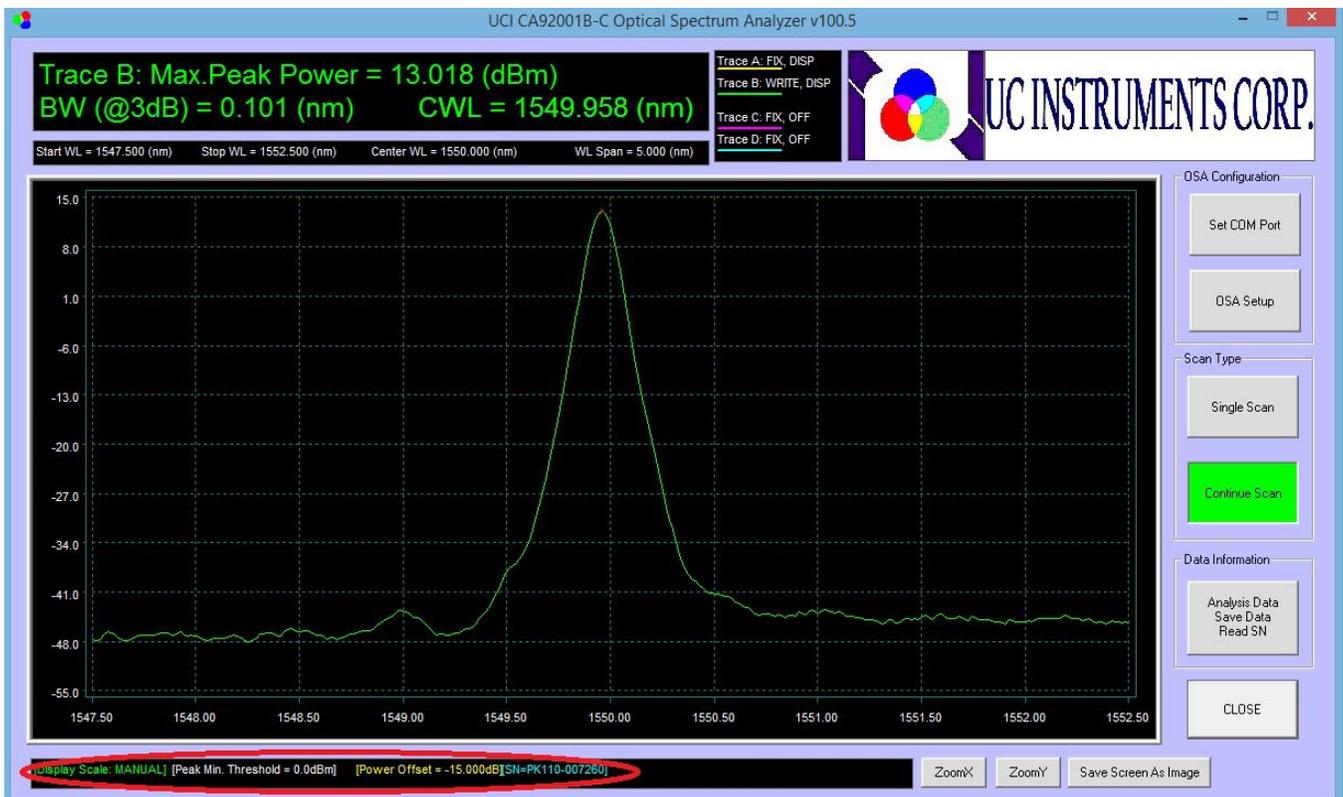
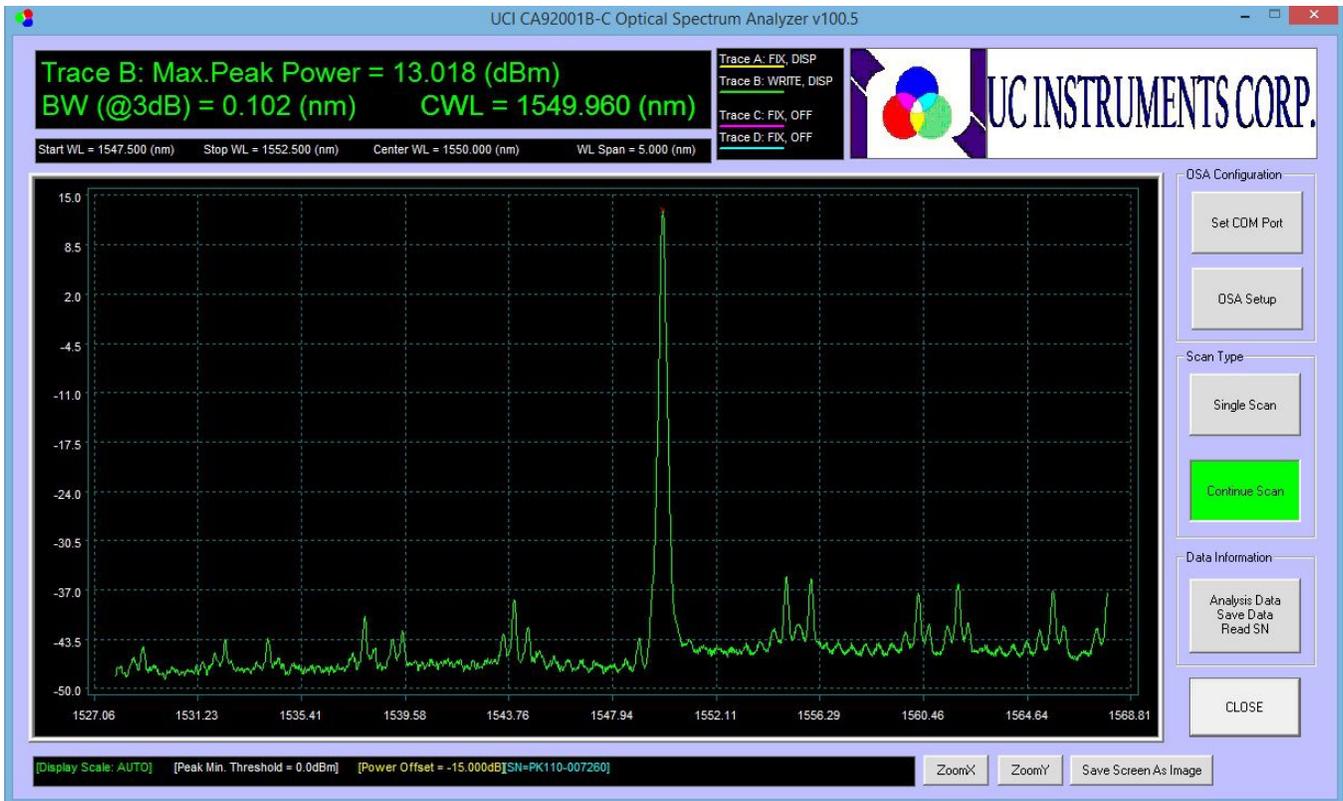
- Excellent wavelength accuracy (with built-in wavelength reference)
- Big power measurement range
- Excellent power accuracy
- Compact size, light weight
- Fast scan speed
- Software upgradeable
- Low system cost solution

- Single or multi-mode fiber interface

Specifications

Parameter	Unit	Data
Wavelength Range	nm	1528.00 ~ 1567.00
Maximum Input Power	dBm	23
Relative Optical Power Accuracy ¹	dB	< ±0.25
Optical Power Measurement Repeatability ¹	dB	< ±0.2
PDL	dB	< 0.2
Wavelength Resolution	pm	< 10
Absolute Wavelength Accuracy	pm	< ±25 (At highest resolution sweep mode)
Noise Floor	dBm	< -55
Response Time	s	3.0 (At the highest resolution sweep mode) 0.5 (At the lowest resolution sweep mode)
Power Supply	V	5 V, 2.0 A (DC)
Power Consumption	W	2
Operating Temperature	°C	0 ~ 65
Storage Temperature	°C	-40 ~ 85
Electronics Interface	-	USB Port
Optical Connector	-	FC/APC
Dimensions ³	mm	38mm H, 150 mm W, 175 mm D
Weight	kg	0.5

CA92001B C Band Optical Spectrum Analyzer GUI Interface



Contact Information

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July., 2015

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