

6362E Spectrometer



- **Product Description**

A high-speed, high-performance spectrum analyzer with a wide wavelength range based on diffraction grating spectrometry technology. The 1200-2400nm spectrum range not only covers the communication wavelength band, but also covers the SWIR region. It can be applied to optical system testing such as DWDM and optical amplifiers; testing of optical active devices such as LEDs, FP-LDs, DFB-LDs, and optical

transceivers; testing of optical passive devices such as optical fibers and fiber gratings, as well as measurement testing of environmental sensing and medical applications.

- **Product features**

1200nm~2400nm wide spectral scanning range 、 50pmMin. spectral resolution、 55dB dynamic range、 -70dBmz high sensitivity、 Free space optical input

- **Part Number**

MP-OSA-NIR-2-0.50

- **Application area**

Applicable to optical system testing such as DWDM and optical amplifiers、 Optical active device testing such as LED, FP-LD, DFB-LD, optical transceivers、 Optical passive device testing such as optical fiber and fiber Bragg gratings

- **Core parameters**

Wavelength range	Wavelength Accuracy
1200~2400nm	±0.50nm

● General Parameters

Main Parameters:

Parameters	Specification
Spectral range	1200~2400nm
Scan span	0.5~1200nm (Light source output options) , 0nm
Wavelength accuracy	$\pm 0.05\text{nm}$ (1520 ~1580nm) 、 $\pm 0.10\text{nm}$ (1580 ~1620nm) 、 $\pm 0.50\text{nm}$ (Full wavelength range)
Wavelength linearity	$\pm 0.01\text{nm}$ (1520 ~1580nm)
Wavelength repeatability	$\pm 0.015\text{nm}$ (1min)
Wavelength resolution setting	Standard version : 0.05、 0.1、 0.2、 0.5、 1、 2nm
Min. sampling resolution	0.002nm
Number of sampling points	101~50001、 AUTO
Power sensitivity setting	NORMAL、 MID、 HIGH1、 HIGH2 and HIGH3
Power sensitivity	-70dBm (1800-2200nm) 、 -67dBm (1500~1800nm , 2200-2400nm) 、 -62 dBm (1300-1500nm) (Sensitivity : HIGH3)
Max. input power	+20dBm (Each channel, full wavelength range)
Max. safe input power	+25dBm (Total input power)
Power accuracy	$\pm 1.0\text{dB}$ (1550nm , Input Power : -20dBm , Sensitivity : MID , HIGH1-3)

Parameters	Specification
Power linearity	$\pm 0.05\text{dB}$ (Input Power : $-30\sim+10\text{dBm}$, Sensitivity : MID , HIGH1-3)
Polarization dependence	$\pm 0.1\text{dB}$ (1550nm)
Dynamic Range	45dB(Peak $\pm 0.4\text{nm}$, Resolution : 0.05nm) 55dB(Peak $\pm 0.8\text{nm}$, Resolution:0.05nm) (1523nm , Sensitivity : HIGH1-3)
Applicable optical fiber	SM(9.5/125 μm) 、 MM(GI 50/125 μm 、 GI 62.5/125 μm 、 Large core diameter : Max. 200 μm)
Light source output options	Standard calibration light source、 DFB/FP light source (standard 1550nm, other wavelengths optional), SLED light source (band range optional) Other light source types and accessories can be customized

Note: For devices that do not use the gas absorption cell calibration light source option, wavelength calibration and optical axis alignment can be performed using an external light source.

Appendix 1: Model and Part Number Comparison Table

Title	Spectral Range	Span	Wavelength Accuracy	Wavelength Repeatability	Wavelength Resolution Setting	Min.Sampling resolution
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Title	Spectral Range	Span	Wavelength Accuracy	Wavelength Repeatability	Wavelength Resolution Setting	Min.Sampling resolution
6362E Spectrometer	1200~2400nm	0.5nm~ 1200nm (Full range span), 0nm m	$\pm 0.05\text{nm}$ (1520-1580 nm) , $\pm 0.10\text{nm}$ (1580-1620 nm) , $\pm 0.50\text{nm}$ (Full range)	$\pm 0.015\text{nm}$ (1 Min.)	Standard version : 0.05、0.1、0.2、0.5、1、2nm	0.002nm

