

6362D Spectrometer



- **Product Description**

The high-resolution, large dynamic range, high-speed and high-performance optical spectrum analyzer is suitable for testing optical systems such as DWDM and optical amplifiers in the 600-1700nm spectrum range; testing optical active devices such as LED, FP-LD, DFB-LD, and optical transceivers; and testing optical passive devices such as optical fibers and fiber gratings.



● Product features

20pmMin. spectral resolution、 600 ~ 1700nm spectral scanning range、
 78dB large dynamic range、 -90dBmz high sensitivity、 Support spatial light
 input、 Built-in light source output configuration optional

● Part Number

MP-OSA-NIR-2-0.10

● Application area

Semiconductor laser light source spectrum measurement application、
 Fiber polarization mode dispersion measurement application、 Wavelength
 division multiplexing application、 Fiber amplifier application、 Wavelength
 division multiplexing filter application

● Core parameters

Wavelength range	Wavelength Accuracy
600~1700nm	±0.100nm

● General Parameters

Main Parameters:

Parameters	Specifications
Spectral range	600 ~1700nm



Parameters		Specifications
Scan span		0.2 ~1100nm (Full range span)
Wavelength accuracy		$\pm 0.02\text{nm}$ (1520 ~1620nm) 、 $\pm 0.04\text{nm}$ (1450 ~1520nm) 、 $\pm 0.10\text{nm}$ (Full range span)
Wavelength linearity		$\pm 0.01\text{nm}$ (1520 ~1580nm)
Wavelength repeatability		$\pm 0.005\text{nm}$ (1min)
Wavelength resolution setting		0.02、0.05、0.1、0.2、0.5、1、2nm
Min. Sampling resolution		0.001nm
Number of sampling points		101~50001、AUTO
Power sensitivity setting		NORMAL、MID、HIGH1、HIGH2 and HIGH3
Power sensitivity		-90dBm (1300-1620nm) 、 -85dBm (1000 ~1300 nm) 、 -60dBm (600-1000nm) (Sensitivity : HIGH3)
Max. input power		+20dBm (Each channel, full wavelength range)
Max. safe input power		+25dBm (Total input power)
Power accuracy		$\pm 0.4\text{dB}$ (1310/1550nm, Input Power: -20dBm, Sensitivity: MID)
Power linearity		$\pm 0.05\text{dB}$ (Input Power : -50~+10dBm)
Power flatness		$\pm 0.1\text{dB}$ (1520 ~1580nm) 、 $\pm 0.2\text{dB}$ (1450 ~1520nm、1580 ~1620nm)
Polarization dependence		$\pm 0.08\text{dB}$ (1550nm)
Dynamic Range	Resolution : 0.02nm	63dB(Peak $\pm 0.2\text{nm}$, Typ.66dB) 、 46dB(Peak $\pm 0.1\text{nm}$, Typ.50dB)
	Resolution: 0.05nm	73dB(Peak $\pm 1.0\text{nm}$, Typ.76dB) 、 70dB(Peak $\pm 0.4\text{nm}$, Typ.73dB) 、 63dB(Peak $\pm 0.2\text{nm}$, Typ.66dB)
	Resolution: 0.1nm	67dB(Peak $\pm 0.4\text{nm}$, Typ.70dB) 、 57dB(Peak $\pm 0.2\text{nm}$, Typ.60dB)
Stray light suppression rate		76dB



Parameters	Specifications
Optical return loss	35dB (When using the APC connector)
Applicable optical fiber	SM(9.5/125 μ m)、GI(50/125 μ m、62.5/125 μ m)、 Large core fiber (Max. 200 μ m)
Light source output	Factory installed standard: DFB light source(1550 \pm 5nm); Replaceable light source: see options for details
Display	12.1-inch touchscreen
Storage	128GB
Interfaces	USB/Ethernet/RS232C/VGA
Working conditions	Ambient temperature : 0°C ~ 40°C; Humidity: \leq 80% Performance guaranteed temperature: 18~28°C
Dimensions	W×H×D=426mm×221mm×450mm
Weight	About 19kg
Power supply	100~240VAC、 50\60Hz
Max. power consumption	About 100W
Warm-up time	At least 1h (After warming up, the built-in light source is required for built-in light source calibration.)

Note: Wavelength calibration and optical axis alignment can be performed using an external light source.

Appendix 1: Model and Part Number Comparison Table

Title	Spectral	Span	Wavelength Accuracy	Wavelength	Wavelength	Min. Sampling
	ral			gth	gth	pling



	Range			Repeatability	Resolution Setting	Resolution
6362D Spectrometer	600~1700nm	0.2nm~1100nm(Full range span)	±0.02nm(1520~1620 nm), ±0.04nm(1450~1520nm), ±0.10nm(Full range)	±0.005nm(1 Min.)	0.02、0.05、0.1、0.2、0.5、1 and 2nm	0.001nm