

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
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)

Parameters		Specifications
Dynamic Range	Resolution : 0.02nm	63dB(Peak $\pm$ 0.2nm , Typ.66dB) 、 46dB(Peak $\pm$ 0.1nm , Typ.50dB)
	Resolution: 0.05nm	73dB(Peak $\pm$ 1.0nm , Typ.76dB) 、 70dB(Peak $\pm$ 0.4nm , Typ.73dB) 、 63dB(Peak $\pm$ 0.2nm , Typ.66dB)
	Resolution: 0.1nm	67dB(Peak $\pm$ 0.4nm , Typ.70dB) 、 57dB(Peak $\pm$ 0.2nm , Typ.60dB)
Stray light suppression rate		76dB
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 $\times$ H $\times$ D=426mm $\times$ 221mm $\times$ 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 Range	Span	Wavelength Accuracy	Wavelength Repeatability	Wavelength Resolution Setting	Min. Sampling resolution
6362D Spectrometer	600~1700nm	0.2nm ~1100nm(Full range span)	$\pm 0.02\text{nm}$ (1520~1620 nm)、 $\pm 0.04\text{nm}$ (1450 ~1520nm)、 $\pm 0.10\text{nm}$ (Full range)	$\pm 0.005\text{nm}$ (1 Min.)	0.02、0.05、0.1、0.2、0.5、1 and 2nm	0.001nm