WESTERN OPTRONICS

6362 Series

Optical Spectrum Analyzer



Product Overview

The 6362 Series Optical Spectrum Analyzer provides high-resolution spectral measurement, a wide dynamic range and high-speed scanning for optical system and component testing. The model-specific wavelength ranges collectively cover 350-2500 nm [1]. Applications include DWDM systems, optical amplifiers, LED, FP-LD and DFB-LD sources, optical transceivers, optical fibers and fiber gratings.

The series supports research, development and production in optical communications, biomedicine, materials and healthcare. A 12.1-inch touch screen provides access to measurement settings and spectrum analysis functions.

Model Selection

Model	Wavelength range
6362C	350-1200 nm
6362D	600-1700 nm
6362DA	600-1700 nm
6362E	1200-2400 nm [2]
6362EA	1000-2500 nm [2]

Main Features

- Fine spectral resolution with model-dependent settings
- 350-2500 nm combined wavelength coverage [1]
- Wide dynamic range and high power sensitivity
- Free-space optical input support
- Built-in light-source output configurations
- Spectrum data analysis for multiple applications
- 12.1-inch touch-screen display

Typical Applications

Spectrum parameter measurement and analysis for optical integrated circuits, FP-LD and DFB-LD lasers, optical transceiver modules and optoelectronic systems.

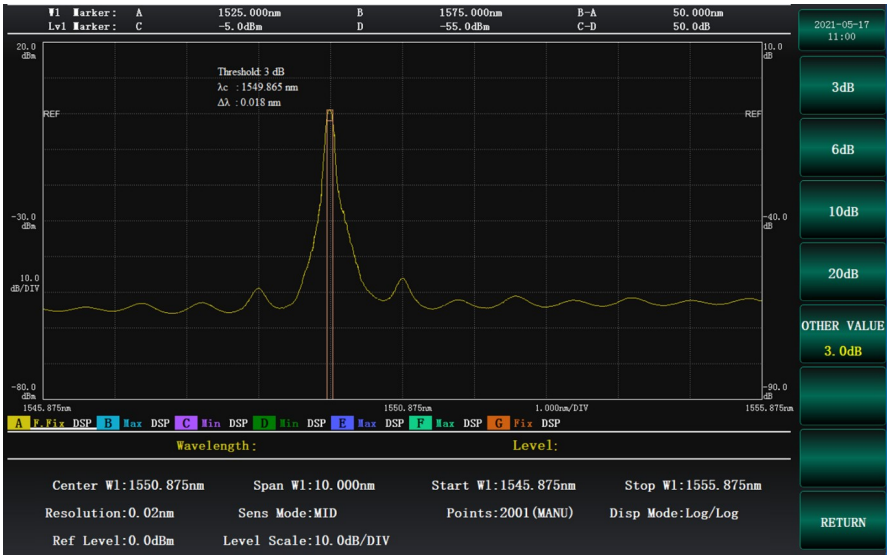
[1]-[10] identify source specifications or configuration details requiring confirmation. See Source Clarifications on the final page. Model values and test conditions are retained in the specification tables.



Spectral Resolution and Peak Search

Selectable Spectral Resolution

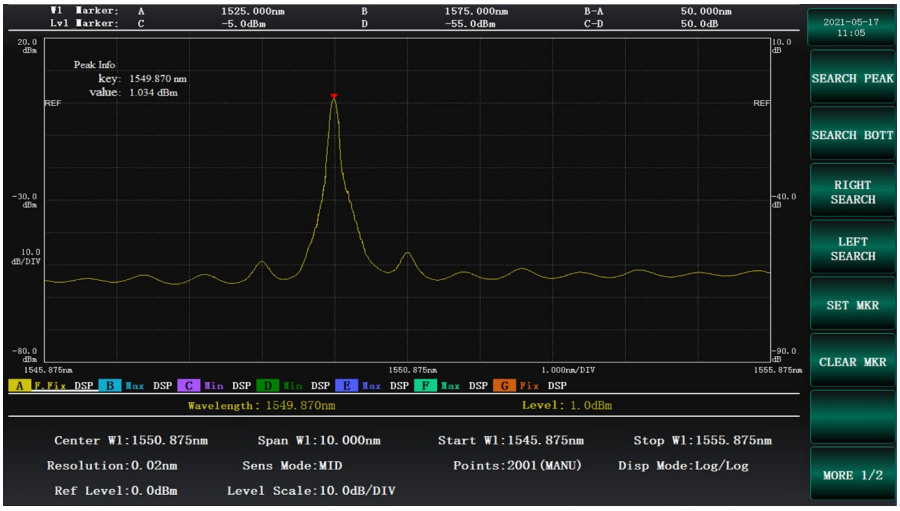
The 6362D supports multiple resolution settings with flexible switching. The source overview describes a minimum spectral resolution better than 20 pm; the model table lists 0.02 nm as its lowest setting. The 6362C provides a minimum resolution of 10 pm, limited to 400-470 nm in the model table. The 6362E minimum resolution is 50 pm.



Spectrum traces measured with different resolution settings

Peak Search

A spectrum-adaptive peak-search algorithm provides accurate peak retrieval, strong adaptability and robustness, and fast calculation.



Spectrum peak search

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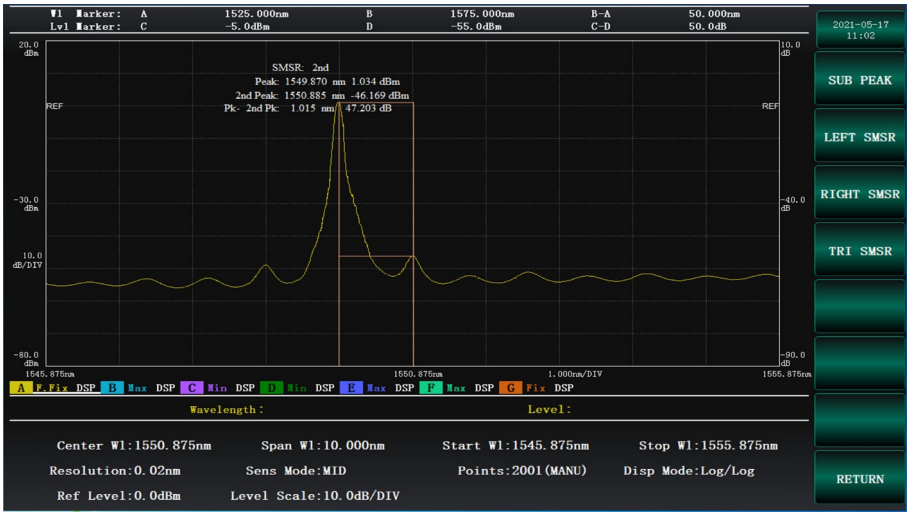


6362 Series
Optical Spectrum Analyzer

Laser Spectrum Analysis

Single Longitudinal Mode Lasers

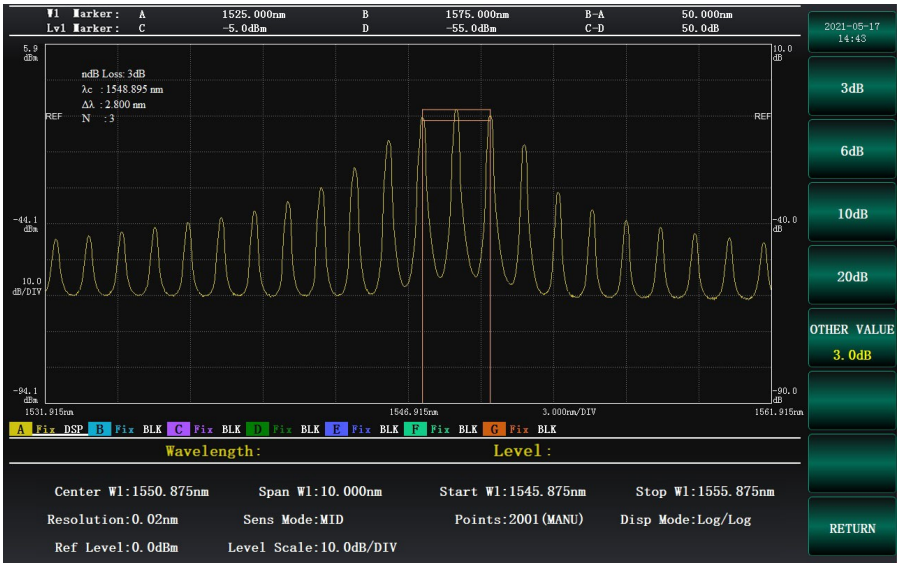
For single longitudinal mode sources such as DFB-LD lasers, threshold analysis and side-mode suppression ratio analysis evaluate center wavelength, spectral bandwidth and side-mode suppression ratio.



DFB-LD side-mode suppression ratio analysis

Multiple Longitudinal Mode Lasers

For multi-longitudinal-mode sources such as FP-LD lasers, the 6362D provides ndB loss, envelope and root mean square analysis. These methods evaluate center wavelength and bandwidth.



Center wavelength and bandwidth measurement using the ndB loss method

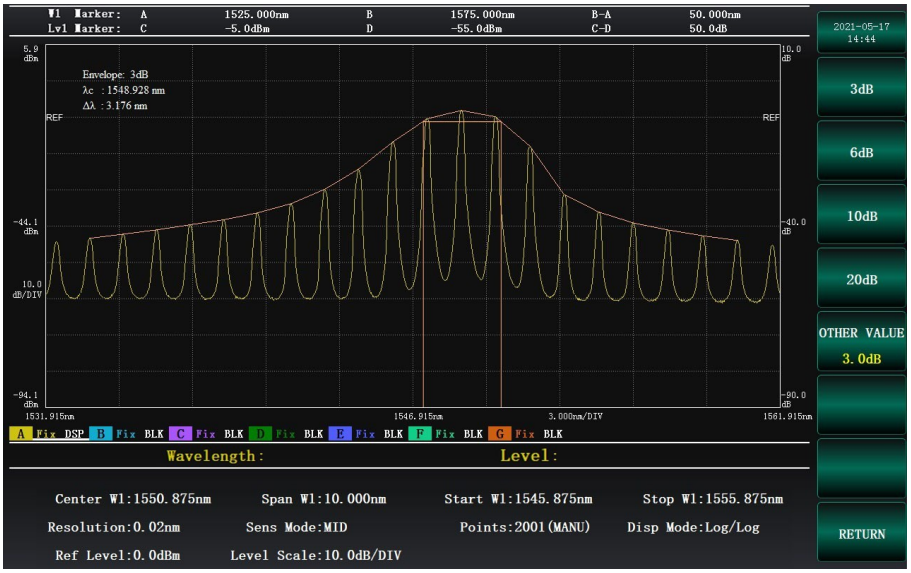


6362 Series
Optical Spectrum Analyzer

Multiple Longitudinal Mode Analysis

Envelope Analysis

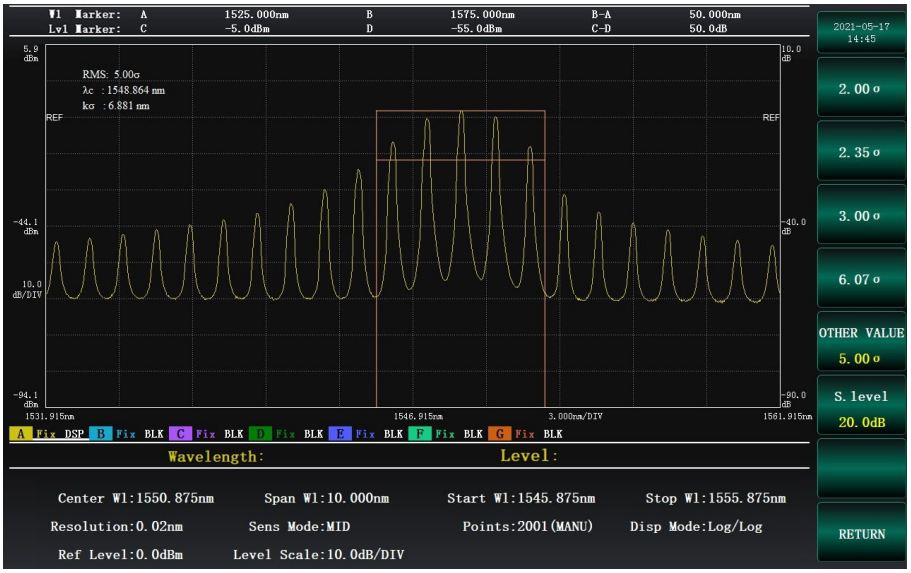
Envelope analysis is one of the three available methods for evaluating multi-longitudinal-mode laser center wavelength and bandwidth.



Center wavelength and bandwidth measurement using envelope analysis

Root Mean Square Analysis

Root mean square analysis provides an additional method for evaluating the center wavelength and bandwidth of the measured source.



Center wavelength and bandwidth measurement using root mean square analysis

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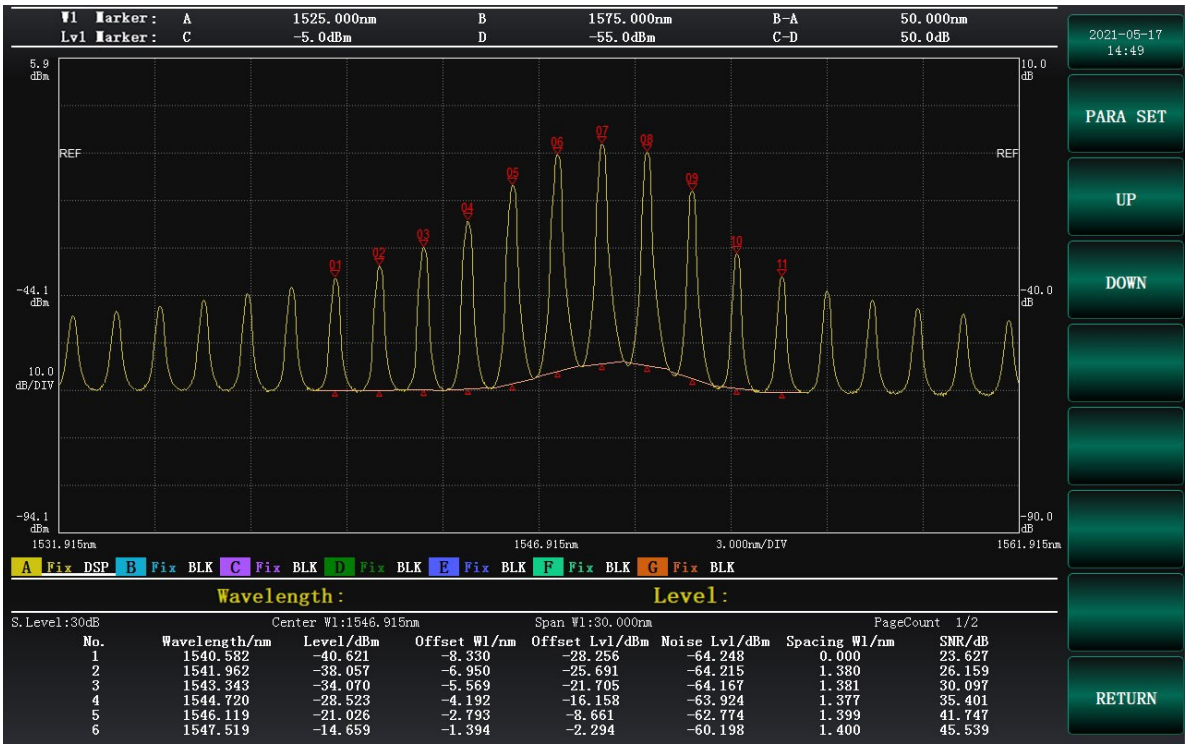
6362 Series

Optical Spectrum Analyzer

Optoelectronic Device Analysis

The 6362 Series supports one-key testing and analysis of LED, FP-LD, DFB-LD and laser-diode modules, with batch processing for all test items.

In addition to semiconductor laser spectrum measurement, the instrument integrates analysis functions for optical-fiber polarization mode dispersion, wavelength division multiplexing, fiber amplifiers, wavelength division multiplexing filters, and wavelength division multiplexing fiber amplifiers.



Typical wavelength division multiplexing analysis

Application Coverage

- Optical system testing, including DWDM systems and optical amplifiers
- Active-component characterization of LED, FP-LD and DFB-LD sources and optical transceivers
- Passive-component characterization of optical fibers and fiber gratings
- Research, development and production measurements across communications, biomedicine, materials and healthcare

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6362 Series
Optical Spectrum Analyzer



6362D and 6362DA Specifications

Parameter	6362D	6362DA
Wavelength range	600-1700 nm	
Scan span	0.2-1100 nm (full span); 0 nm	
Wavelength accuracy	±0.02 nm (1520-1620 nm) ±0.04 nm (1450-1520 nm) ±0.10 nm (full span)	±0.01 nm (1520-1620 nm) ±0.04 nm (1450-1520 nm) ±0.10 nm (full span)
Wavelength linearity	±0.01 nm (1520-1580 nm)	
Wavelength repeatability	±0.005 nm (1 minute)	±0.005 nm (2 minutes)
Resolution settings	0.02, 0.05, 0.1, 0.2, 0.5, 1, 2 nm	0.01 nm only listed
Minimum sampling resolution	0.001 nm	
Sampling points	101-50001; AUTO	101-100001; AUTO
Power sensitivity settings	NORMAL, MID, HIGH1, HIGH2, HIGH3	
Power sensitivity	-90 dBm (1300-1620 nm) -85 dBm (1000-1300 nm) -60 dBm (600-1000 nm); sensitivity HIGH3 [10]	
Maximum input power	+20 dBm per channel, full wavelength band	
Maximum safe input power	+25 dBm total input power	
Power accuracy	±0.4 dB (1310/1550 nm, input power -20 dBm, sensitivity MID)	
Power linearity	±0.05 dB (input power -50 to +10 dBm)	
Power flatness	±0.1 dB (1520-1580 nm) ±0.2 dB (1450-1520 nm, 1580-1620 nm)	
Polarization dependence	±0.05 dB (1500 nm) ±0.08 dB (1310 nm)	±0.08 dB (1550 nm)

For 6362DA, the source resolution-setting cell lists only 0.01; other settings are not specified. Power and sensitivity values apply only under the listed conditions and wavelength bands.



6362 Series
Optical Spectrum Analyzer

6362D and 6362DA Specifications Continued

Dynamic Range

Model and resolution	Dynamic range
6362D / 0.02 nm	55 dB at peak ±0.2 nm; typical 66 dB 37 dB at peak ±0.1 nm; typical 50 dB
6362D / 0.05 nm	73 dB at peak ±1.0 nm; typical 78 dB 63 dB at peak ±0.4 nm; typical 73 dB 52 dB at peak ±0.2 nm; typical 66 dB
6362D / 0.1 nm	60 dB at peak ±0.4 nm; typical 70 dB 46 dB at peak ±0.2 nm; typical 60 dB
6362DA / 0.01 nm	80 dB at peak ±1.0 nm, resolution 0.01 nm

Parameter	Specification
Stray light suppression	6362D: 78 dB; 6362DA: 80 dB
Optical return loss	35 dB using APC connectors
Applicable fiber types	SM (9.5/125μm), GI (50/125μm, 62.5 μm, 125μm), Large core diameter fiber (maximum 200μm) [9]
Optical output options	Standard C-band DFB calibration light source DFB/FP light source (standard 1550 nm; other wavelengths optional) SLED light source (band range optional) SLED + C2H2 light source Other light source type accessories can be customized
Display	12.1-inch touch screen
Storage	128 GB
Instrument interfaces	USB / Ethernet / VGA / GPIB [8]
Working conditions	0-40 °C; humidity ≤80%; guaranteed performance temperature 18-28 °C
Dimensions	426 × 221 × 450 mm (W × H × D)
Weight	20 kg
Power supply	100-240 VAC; 50/60 Hz
Maximum power consumption	100 W

Wavelength calibration and optical axis alignment can be performed with an external light source.

WESTERN OPTRONICS



6362 Series
Optical Spectrum Analyzer

6362C Specifications

Parameter	Specification
Wavelength range	350-1200 nm
Scan span [3]	0.5 nm to 1850 nm (full span), 0 nm
Wavelength accuracy	±0.05 nm (633 nm) ±0.2 nm (400-1100 nm) After calibration using 633 nm He-Ne laser source
Wavelength linearity [4]	±0.01 nm (1520-1580 nm)
Wavelength repeatability	±0.005 nm (2 minutes)
Resolution settings	0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 nm (full scope) 0.01 nm (400-470 nm)
Minimum sampling resolution	0.001 nm
Sampling points	101-50001; AUTO
Power sensitivity settings	NORMAL, MID, HIGH1, HIGH2, HIGH3
Power sensitivity [10]	-80 dBm (500-1000 nm) -60 dBm (400-500 nm, 1000-1100 nm) Typical resolution ≥0.2 nm; average 10; sensitivity HIGH3
Maximum safe input power	+20 dBm (550-1100 nm) +10 dBm (400-550 nm); total input power
Power accuracy	±1.0 dB (850 nm; input power -20 dBm; resolution ≥0.2 nm; sensitivity MID, HIGH1-3; SMF MFD 5 μm @850 nm, NA 0.14)
Power linearity	±0.2 dB (input power -40 to 0 dBm; sensitivity HIGH1-3)
Dynamic range	60 dB (peak ±0.5 nm; resolution 0.02 nm; 633 nm)
Optical port	FC type (optical input and calibration output)
Scan time	NORMAL 1 s; MID 2 s; HIGH1 5 s; HIGH2 20 s; HIGH3 75 s
Applicable fiber types [9]	SM (9.5/125μm), GI (50/125μm, 62.5 μm, 125μm), Large core diameter fiber (maximum 800μm)
Built-in laser source	Optical axis alignment laser source (optical axis alignment; no need of wavelength reference laser source)
Display	12.1-inch touch screen
Storage	128 GB
Instrument interfaces [8]	USB / Ethernet / GPIB / DP
Working conditions	0-40 °C; humidity ≤80%; guaranteed performance temperature 18-28 °C
Dimensions	426 × 221 × 450 mm (W × H × D)
Weight	19 kg
Power supply	100-240 VAC; 50/60 Hz
Maximum power consumption	100 W

WESTERN OPTRONICS



6362 Series
Optical Spectrum Analyzer

6362E and 6362EA Specifications

Parameter	6362E	6362EA
Wavelength range [2]	1200-2400 nm	1000-2500 nm
Scan span	0.5-1200 nm (full span); 0 nm	0.5-1500 nm (full span); 0 nm
Wavelength accuracy	±0.05 nm (1520-1580 nm); ±0.10 nm (1580-1620 nm); ±0.50 nm (full span)	
Wavelength linearity	±0.01 nm (1520-1580 nm)	
Wavelength repeatability	±0.015 nm (1 minute)	
Resolution settings	0.05, 0.1, 0.2, 0.5, 1, 2 nm	
Minimum sampling resolution	0.002 nm	
Sampling points	101-50001; AUTO	
Power sensitivity settings	NORMAL, MID, HIGH1, HIGH2, HIGH3	
Power sensitivity [5] [10]	+65 dBm (1800-2200 nm) -52 dBm (1500-1800 nm, 2200-2400 nm) -50 dBm (1300-1500 nm); sensitivity HIGH3	+65 dBm (1800-2200 nm) -52 dBm (1500-1800 nm, 2200-2500 nm) -50 dBm (1300-1500 nm); sensitivity HIGH3
Maximum input power	+20 dBm per channel, full range	
Maximum safe input power	+25 dBm total power	
Power accuracy	±1.0 dB (1550 nm; input power -20 dBm; sensitivity MID, HIGH1-3)	
Power linearity	±0.05 dB (input power -30 to +10 dBm; sensitivity HIGH1-3)	
Polarization dependence	±0.2 dB (1550 nm)	
Dynamic range [6]	40 dB (peak ±0.4 nm; resolution 0.025 nm) 50 dB (peak ±0.8 nm; resolution 0.05 nm) (1523 nm, sensitivity HIGH1-3)	

[5] The +65 dBm sensitivity value is reproduced with the positive sign printed in the source. It requires confirmation and must not be interpreted as a safe input level. Observe the separately specified maximum input limits.



6362 Series
Optical Spectrum Analyzer

6362E and 6362EA Specifications Continued

Parameter	Specification
Applicable fiber types [9]	SM (9.5/125μm), MM (GI 50/125μm, GI 62.5 μm, 125μm), Large core diameter fiber (maximum 200μm)
Calibration laser source	Standard DFB calibration laser source
Optical port	FC type (optical input and calibration output)
Display	12.1-inch touch screen
Storage	128 GB
Instrument interfaces [8]	USB / Ethernet / GPIB / DP
Working conditions	0-40 °C; humidity ≤80%; guaranteed performance temperature 18-28 °C
Dimensions	426 × 221 × 450 mm (W × H × D)
Weight	19 kg
Power supply	100-240 VAC; 50/60 Hz
Maximum power consumption	100 W

Ordering Information

Main Units

Model	Description	Wavelength range
6362C	Optical Spectrum Analyzer	350-1200 nm
6362D/DA	Optical Spectrum Analyzer	600-1700 nm
6362E/EA	Optical Spectrum Analyzer	1200-2400 nm / 1000-2500 nm

Standard Configuration

No	Item	Description
1	Power supply cable	Standard power cable for power supply
2	User manual	
3	Quality certificate	

WESTERN OPTRONICS

6362 Series

Optical Spectrum Analyzer



Options and Ordering

Option	Description	Configuration
6362D-H02	Built-in source	SLED; power ≥0 dBm; center wavelength 1550 nm
6362D-H03	Built-in source	SLED + C2H2 absorption tank for higher calibration; power ≥0 dBm; center wavelength 1550 nm; may also calibrate the 6362D OSA; only for 6362D
6362C-H04 **6362D-H04** **6362E-H04**	Interface option	GPIB programming interface; trigger input; trigger output
6362C-H05 **6362D-H05** **6362E-H05**	English option	English version

GPIB appears both in the interface specifications and in the H04 option listing. Confirm the supplied interface configuration before ordering [8].

Contact

Western Optronics Inc.

Email: sales@westernoptronics.com

Website: www.westernoptronics.com

Telephone: +1-510-366-7353 / +86-199-2997-3267

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WESTERN OPTRONICS

6362 Series

Optical Spectrum Analyzer



Source Clarifications

The following inconsistencies and ambiguities occur in the supplied technical source. The associated values are retained or identified in this datasheet. Confirm these points before relying on them for instrument selection or measurement planning.

[1] Series wavelength coverage. The overview states 300-2500 nm, while the feature list states 350-2500 nm and the 6362C table begins at 350 nm. The model-specific tables support a combined range of 350-2500 nm.

[2] 6362E and 6362EA ranges. The cover lists 1200-2500 nm for 6362E. The detailed specifications and ordering information separately list 6362E at 1200-2400 nm and 6362EA at 1000-2500 nm. These model-specific values are used in this datasheet.

[3] 6362C scan span. The printed scan span is 0.5-1850 nm (full span), plus 0 nm. This conflicts with the stated 350-1200 nm wavelength range; 1850 nm has not been replaced with an inferred value.

[4] 6362C wavelength linearity. The specified ±0.01 nm condition is 1520-1580 nm, outside the listed 350-1200 nm operating range.

[5] 6362E and 6362EA sensitivity. Both models show +65 dBm at 1800-2200 nm. The positive sign is retained. This is inconsistent with a sensitivity specification below the separately stated +25 dBm safe total input limit.

[6] 6362E dynamic range condition. The 40 dB dynamic-range condition specifies 0.025 nm resolution, but the listed selectable resolution settings begin at 0.05 nm.

[7] Product image caption. One source illustration is labeled 6363C, although the series specifications and ordering table list 6362C. The ambiguous illustration is not used as evidence of an additional supported model.

[8] GPIB configuration. GPIB appears in the specification interface lists and in the H04 optional interface package. Standard versus optional availability requires confirmation.

[9] Fiber dimensions. The source lists GI fiber dimensions as 50/125 µm, 62.5 µm, 125 µm, with similar notation for E/EA. The values are retained without inferring a combined 62.5/125 µm specification.

[10] Sensitivity wavelength coverage. The sensitivity tables do not cover every wavelength in the instrument ranges. D/DA values end at 1620 nm, C values cover 400-1100 nm, and E/EA values begin at 1300 nm. No performance is extrapolated to unlisted bands.

Technical source: Ceyear 6362 Series Optical Spectrum Analyzer, English source file dated 2026-04. Source page references: overview page 2; product caption page 6; D/DA specifications page 7; C specifications page 8; E/EA specifications page 9; ordering page 10 (PDF page numbers).