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Data Sheet

August 14, 2026

BURLEIGH / EXFO

Burleigh / Exfo WA-1100 700-1650nm wavemeter

The Burleigh/Exfo WA-1100 is a precision wavemeter designed for accurate wavelength measurement in the 700-1650nm range. It is ideal for characterizing lasers, LEDs, and other light sources in optical communication, spectroscopy, and metrology applications. This instrument provides high resolution and reliable performance.

**MODEL****Burleigh / Exfo
WA-1100****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****WA-1100****LISTING**<https://aumictechlabs.com/products/wa-1100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh/Exfo WA-1100 is a precision optical wavelength meter covering 700–1650 nm using a scanning Michelson interferometer with integrated HeNe laser calibration. It delivers absolute wavelength accuracy of ± 1.5 pm with 0.001 nm resolution, making it the standard choice for DWDM component characterization, tunable laser validation, and optical spectrum analyzer calibration across telecom and datacom bands. The instrument simultaneously measures total optical power and wavelength from a single fiber input. Its 0.1 s measurement cycle enables real-time signal monitoring. A built-in HeNe reference laser (± 500 MHz accuracy) continuously calibrates the system, eliminating the need for external wavelength standards. Technical Specifications Wavelength Range: 700–1650 nm (181–428 THz) Absolute Wavelength Accuracy: ± 1.5 pm Wavelength Resolution: 0.001 nm Optical Input: 9/125 μ m single-mode fiber, FC/PC connector Signal Sensitivity: -30 dBm (1200–1600 nm); -20 dBm (700–1650 nm) Maximum Input

Power: +10 dBm Power Measurement Accuracy: ± 0.5 dB Power Linearity: ± 0.3 dB Power Resolution: 0.01 dB Measurement Update Rate: 0.1 s (10 Hz) Reference Laser Accuracy: ± 500 MHz or ± 1 ppm Supported Signals: CW (Continuous Wave) Interfaces: GPIB (IEEE-488.2), RS-232 with SCPI command set Power Supply: 90–260 V AC, 50/60 Hz Key Features Scanning Michelson interferometer technology for absolute wavelength determination Integrated HeNe laser calibration standard eliminates calibration drift Simultaneous wavelength and power measurement from single input Benchtop or rack-mounted configuration for lab and manufacturing environments Typical Applications DWDM component validation (active and passive) Tunable laser characterization and wavelength calibration Optical spectrum analyzer verification Single-channel and multi-line optical signal analysis Compatibility & Integration Remote operation via GPIB or RS-232 with full SCPI support enables integration into automated test systems and manufacturing quality control workflows.

Features & description

From manufacturer datasheet

Built-in HeNe wavelength standard

GPIB and RS-232 control Technical Specifications Model: WA-1100 Wavelength Range: 700 nm to 1650 nm Frequency Range: 181 THz to 428 THz Wavelength Uncertainty: plus or minus 1 ppm (plus or minus 1.5 pm at 1500 nm) Display Resolution Wavelength: 0.001 nm Wavelength Units: nm vacuum, GHz Power Uncertainty: plus or minus 0.5 dB at plus or minus 30 nm from 1310 nm and 1550 nm Power Resolution: plus or minus 0.05 dB Power Linearity: plus or minus 0.3 dB Power Display Resolution: 0.01 dB Power Units: dBm, mW, uW Sensitivity 1200 to 1600 nm: -30 dBm (1 uW) Sensitivity 700 to 1650 nm Typical: -20 dBm (10 uW) Maximum Input Level: 10 dBm (10 mW) Maximum Safe Level: 18 dBm (63 mW) Measurement Update Time: 0.1 s (10 measurements/s) Optical Input Fiber: 9/125 um Connector Options: FC/UPC FC/APC SC/UPC SC/APC ST/UPC Instrument Interfaces: GPIB IEEE-488.2, RS-232, LabVIEW, LabWindows Operating Temperature: 15 C to 30 C Storage Temperature: -10 C to 70 C Pressure Range: 500 to 900 mm Hg Relative Humidity: less than or equal to 90 percent RH at 30 C no condensation Dimensions HxWxD: 89 mm x 431.8 mm x 419.1 mm Weight: 7.5 kg Power Requirements: 90 to 260 VAC 50/60 Hz Linewidth Condition: for linewidths less than 10 GHz

WA1100 Characteristics / Specifications

PARAMETER	VALUE
Model	WA-1100
Wavelength Range	700 nm to 1650 nm
Frequency Range	181 THz to 428 THz
Wavelength Uncertainty	plus or minus 1 ppm (plus or minus 1.5 pm at 1500 nm)
Display Resolution Wavelength	0.001 nm
Wavelength Units	nm vacuum, GHz
Power Uncertainty	plus or minus 0.5 dB at plus or minus 30 nm from 1310 nm and 1550 nm
Power Resolution	plus or minus 0.05 dB
Power Linearity	plus or minus 0.3 dB
Power Display Resolution	0.01 dB
Power Units	dBm, mW, uW
Sensitivity 1200 to 1600 nm	-30 dBm (1 uW)
Sensitivity 700 to 1650 nm Typical	-20 dBm (10 uW)
Maximum Input Level	10 dBm (10 mW)
Maximum Safe Level	18 dBm (63 mW)
Measurement Update Time	0.1 s (10 measurements/s)
Optical Input Fiber	9/125 um
Connector Options	FC/UPC FC/APC SC/UPC SC/APC ST/UPC
Instrument Interfaces	GPIB IEEE-488.2, RS-232, LabVIEW, LabWindows
Operating Temperature	15 C to 30 C
Storage Temperature	-10 C to 70 C
Pressure Range	500 to 900 mm Hg
Relative Humidity	less than or equal to 90 percent RH at 30 C no condensation
Dimensions HxWxD	89 mm x 431.8 mm x 419.1 mm
Weight	7.5 kg

PARAMETER	VALUE
Power Requirements	90 to 260 VAC 50/60 Hz
Linewidth Condition	for linewidths less than 10 GHz
Linewidth	Condition: for linewidths less than 10 GHz
Humidity	less than or equal to 90 percent RH at 30 C no condensation

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	10 C to 70 C
Operating temperature	15 C to 30 C
Operating Temperature	15 C to 30 C
Humidity	less than or equal to 90 percent RH at 30 C no condensation
Pressure Range	500 to 900 mm Hg
Relative Humidity	less than or equal to 90 percent RH at 30 C no condensation
Dimensions HxWxD	89 mm x 431.8 mm x 419.1 mm
Weight	7.5 kg
Power Requirements	90 to 260 VAC 50/60 Hz
Linewidth Condition	for linewidths less than 10 GHz Notes From EXFO/Burleigh WA-1650/1150/1100 Wavemeter Optical Wavelength Meters specification sheet columns for WA-1100.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	WA-1100
Wavelength Range	700 nm to 1650 nm
Frequency Range	181 THz to 428 THz
Wavelength Uncertainty	plus or minus 1 ppm (plus or minus 1.5 pm at 1500 nm)
Display Resolution Wavelength	0.001 nm
Wavelength Units	nm vacuum, GHz
Power Uncertainty	plus or minus 0.5 dB at plus or minus 30 nm from 1310 nm and 1550 nm
Power Resolution	plus or minus 0.05 dB
Power Linearity	plus or minus 0.3 dB
Power Display Resolution	0.01 dB
Power Units	dBm, mW, uW
Sensitivity 1200 to 1600 nm	-30 dBm (1 uW)
Sensitivity 700 to 1650 nm Typical	-20 dBm (10 uW)
Maximum Input Level	10 dBm (10 mW)
Maximum Safe Level	18 dBm (63 mW)
Measurement Update Time	0.1 s (10 measurements/s)
Optical Input Fiber	9/125 um
Connector Options	FC/UPC FC/APC SC/UPC SC/APC ST/UPC
Instrument Interfaces	GPiB IEEE-488.2, RS-232, LabVIEW, LabWindows
Operating Temperature	15 C to 30 C
Storage Temperature	-10 C to 70 C
Pressure Range	500 to 900 mm Hg
Relative Humidity	less than or equal to 90 percent RH at 30 C no condensation
Dimensions HxWxD	89 mm x 431.8 mm x 419.1 mm
Weight	7.5 kg
Power Requirements	90 to 260 VAC 50/60 Hz

PARAMETER	VALUE
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Linewidth Condition	for linewidths less than 10 GHz
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Notes

From EXFO/Burleigh WA-1650/1150/1100 Wavemeter Optical Wavelength Meters specification sheet columns for WA-1100.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.