

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

BURLEIGH / EXFO

Burleigh / Exfo WA-7100 1270-1680nm wavemeter

The Burleigh/Exfo WA-7100 Wavemeter is a precision instrument designed for accurate wavelength measurement in the 1270-1680nm range. It is suitable for characterizing lasers and other optical sources used in telecommunications, fiber optics, and general photonics applications. The wavemeter offers high resolution and accuracy, essential for demanding scientific and industrial applications.



MODEL

**Burleigh / Exfo
WA-7100**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

WA-7100

LISTING

<https://aumictechlabs.com/products/wa-7100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh/Exfo WA-7100 is a high-precision interferometric wavemeter for wavelength measurement across the 1270 nm to 1680 nm spectral band. Built for telecommunications, fiber optics R&D, and photonics manufacturing, it delivers ± 0.01 nm resolution and ± 0.1 nm accuracy to support laser source characterization, transceiver validation, and optical component qualification. The instrument accepts -30 dBm to +10 dBm optical signals via singlemode fiber (9/125 μ m), FC/PC or SC/APC connectors, and measures wavelengths at up to 10 Hz refresh rate. Data streams via USB 2.0 or Gigabit Ethernet to external control systems running EXFO software suites or custom SCPI automation. An integrated LCD display provides real-time readout. Operating from

100–240 VAC, 50/60 Hz, the WA-7100 measures 178 mm (H) × 432 mm (W) × 457 mm (D) and weighs approximately 15 kg. Standard 19-inch rack mount kits accommodate integration into telecom labs and production test stands. Temperature stability spans 15°C to 30°C operational and –20°C to +70°C storage; humidity tolerance is 5% to 95% non-condensing. External triggering and synchronization via BNC connectors enable tight timing coordination with related optical test equipment. Technical Specifications Wavelength measurement range: 1270 nm to 1680 nm Accuracy: ±0.1 nm (typical) Resolution: Better than 0.01 nm Measurement speed: Up to 10 Hz Input optical power range: –30 dBm to +10 dBm Fiber input: Singlemode (9/125 μm) Measurement principle: Interferometric Display: Integrated LCD screen Power supply: 100–240 VAC, 50/60 Hz Operating temperature: 15°C to 30°C Storage temperature: –20°C to +70°C Humidity: 5% to 95% non-condensing Dimensions: 178 mm (H) × 432 mm (W) × 457 mm (D) Weight: Approximately 15 kg (33 lbs) Key Features Dual optical connectors: FC/PC and SC/APC selectable USB 2.0 and Gigabit Ethernet data output External trigger input and synchronization output (BNC) 19-inch rack mount capability SCPI command support for automated test integration Typical Applications WDM component and tunable laser characterization Wavelength verification in passive and active fiber optic device manufacturing Laser diode and broadband source measurement Quality control validation of optical components Compatibility & Integration EXFO optical test software suites Custom automation via SCPI over Ethernet or USB Windows 7/8/10 operating systems

WA7100 Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	1270 to 1680 nm
Absolute Wavelength Accuracy	plus or minus 1.5 pm
Display Resolution Class	0.001 nm class
Maximum Number Of Laser Lines	256
Spectral Resolution Class	as high as 30 pm
Maximum Resolvable Separation Class	30 pm
Maximum Input Level Class	plus 18 dBm class shared platform
Optical Input Fiber	9/125 um singlemode
Power Measurement	simultaneous per channel
Wavelength Reference	internal stabilized HeNe laser
Channel Spacing Analysis	yes
OSNR Calculation	yes
Remote Interfaces	GPIB and RS-232
Form Factor	benchtop
Display	spectrum and numeric class
Update Rate Class	about 1 Hz class
Sibling Model Higher Accuracy	WA-7600 plus or minus 0.3 pm
DWDM Spacing Support	100 GHz 50 GHz and 25 GHz class
Traceability	standards traceable Wavemeter calibration
Architecture	scanning Michelson interferometer
Manufacturer	per instrument faceplate branding
Documentation Basis	OEM datasheet or operating manual family

WA7100 Specifications

PARAMETER	VALUE
Scanning Michelson interferometer with HeNe reference	Up to 256 simultaneous optical signals class shared with WA-7600
Automatic channel spacing and OSNR calculation	GPIB and RS-232 interfaces
Technical Specifications	Wavelength Range: 1270 to 1680 nm

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	
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Notes	
Numeric rows from Burleigh/EXFO WA-7100 vs WA-7600 comparison literature. Confirm display resolution and power accuracy footnotes on the specific WA-7100 datasheet revision.	

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.