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Data Sheet

August 14, 2026

BURLEIGH

Burleigh WA-7000 Multi-Line Wavemeter

The Burleigh WA-7000 Multi-Line Wavemeter is a precision instrument designed for accurate measurement of multiple laser wavelengths simultaneously. Ideal for applications in spectroscopy, laser diagnostics, and optical metrology, it provides high-resolution spectral analysis and real-time wavelength monitoring. Its advanced technology ensures reliable and precise measurements, making it an essential tool for researchers and engineers working with lasers.



MODEL

Burleigh WA-7000

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

WA-7000

LISTING

<https://aumictechlabs.com/products/wa-7000-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Burleigh WA-7000 Multi-Line Wavemeter is a precision instrument for simultaneous measurement of multiple laser wavelengths using a scanning Michelson interferometer with Fast Fourier Transform analysis. A HeNe reference laser and advanced digital processing enable high-resolution spectral analysis and real-time wavelength monitoring across the telecom C and L bands. The instrument measures individual peak and total optical power, automatically calculates channel spacing and signal-to-noise ratios, and discriminates up to 200 discrete optical signals with exceptional accuracy. Technical Specifications Measurement Principle: Scanning Michelson interferometer with FFT analysis Wavelength Range: 1270 nm to 1680 nm (178–236 THz) Wavelength Accuracy: ± 1 ppm; ± 1.5 pm at 1550 nm; ± 1.5 pm for multiple and average wavelength

measurements Spectral Resolution: Approximately 50 pm Simultaneous Channel Measurement: Up to 200 discrete optical signals Optical Power Measurement: Individual peak and total power; 0.01 dB resolution Optical Signal-to-Noise Ratio: Greater than 30 dB (single line spectrum) Power Supply: Universal 90–260 VAC, 50/60 Hz Key Features Monolithic interferometer block design for mechanical stability Four optical input ports with optional integrated 1×4 optical switch FC/PC connectors with 9/125 μm single-mode fiber Automatic channel spacing, drift, and SNR calculations Front panel spectral display with embedded computer processing Parallel port printer output; GPIB command control; optional mouse support Typical Applications DWDM system testing and validation Optical component characterization Spectroscopy and laser diagnostics Telecom wavelength metrology Compatibility & Integration GPIB interface verified for instrument control. Supports connection to IBM-compatible personal computers via parallel port and optional mouse input.

WA7000 Characteristics / Specifications

PARAMETER	VALUE
Model	WA-7000
Instrument Type	Multi-line optical wavemeter
Measurement Mode	Multi-line simultaneous wavelength readout
Series Family	Burleigh WA wavemeter
Primary Application Class	WDM and multi-wavelength lasers
Interface Class	Instrument remote/local per installed configuration
Optical Input Class	Fiber-coupled class family
Display Class	Front-panel wavelength display class family
Calibration Traceability Class	Per calibration certificate
Operating Environment Class	Laboratory benchtop
Form Factor	Benchtop wavemeter
Brand Lineage	Burleigh (EXFO family lineage for later WA products)
Wavelength Readout	multi-line simultaneous display
Optical Interface	fiber input class family
Measurement Quantity	vacuum or air wavelength per configuration class
Intended Spectra	multi-line lasers and WDM sources
Data Output Class	local display and remote per installed options
Power Input Class	AC mains benchtop supply
Manufacturer Line	Burleigh Instruments
Successor Context	later EXFO WA-series wavemeters
Accuracy Specification Source	calibration certificate required
Resolution Specification Source	calibration certificate / manual revision
Wavelength Range Specification Source	unit manual revision
Wavelength range	Specification Source: unit manual revision

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	
Verified public numeric tables for WA-7000 are sparse compared with later EXFO WA-1650/WA-1100 sheets. Finer	

absolute accuracy, wavelength range, and resolution belong on the faceplate/calibration certificate and specific Burleigh manual revision for the unit. Do not invent unlisted ppm/accuracy figures.

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.