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Data Sheet

August 14, 2026

BURLEIGH

Burleigh WA-7000 Wavemeter Optical Channel Analyzer

The Burleigh WA7000 is a solid industrial computer designed for demanding environments. It features a rugged enclosure, high-performance processing capabilities, and flexible I/O options, making it suitable for a wide range of industrial applications. This reliable and durable computer ensures seamless operation in harsh conditions.



MODEL

**Burleigh WA7000 /
WA-7000**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**WA7000 / WA-
7000**

LISTING

[https://aumictechlabs.c
om/products/wa7000-
wa-7000-2/](https://aumictechlabs.com/products/wa7000-wa-7000-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Burleigh WA-7000 is a multi-line wavelength meter designed for accurate measurement of multiple optical signals. It utilizes a scanning Michelson interferometer coupled with advanced digital processing and a HeNe reference laser to achieve high precision in wavelength determination. This instrument is particularly suited for WDM (Wavelength Division Multiplexing) channel analysis, providing simultaneous measurement of up to 200 optical channels. Its solid monolithic interferometer design ensures reliability in demanding analytical applications.

Technical Specifications * Wavelength Range: 1270 nm to 1680 nm Absolute Wavelength Accuracy: ± 1.0 ppm (stated as better than ± 1 ppm) Wavelength Measurement Accuracy: ± 1.5 pm Display Resolution: 0.0001 nm Spectral Resolution: 50 pm Maximum Input Level: +18 dBm Optical

Input Type: 9/125 μm Single-Mode fiber Optical Connector: Standard FC/UPC or FC/PC
Measurement Rate: 0.5 Hz (one measurement every two seconds) Optical Spectral Analysis:
Capable of displaying a spectrum of up to 200 channels Signal-to-Noise Ratio (OSNR): Greater
than 30 dB for a single line spectrum Linearity: ± 0.3 dB Key Features and Technologies *

Monolithic Interferometer: Features a rigid, monolithic interferometer constructed within a single
block for enhanced robustness and reliability. HeNe Reference Laser: Incorporates a built-in
Helium-Neon (HeNe) reference laser for precise wavelength calibration and absolute accuracy.
Advanced Digital Processing: Utilizes Fast Fourier Transform (FFT) analysis of signals from the
scanning Michelson interferometer for spectrum generation. Embedded Computer: An integrated
computer manages the spectral display, derives wavelength and power data for each spectral
peak, and controls front panel functions and I/O. Fiber Optic Coupling: Employs fiber optic cables
to couple both the reference laser and input laser beams into the interferometer, ensuring precise
optical alignment. WDM Channel Analysis: Designed for comprehensive WDM channel analysis,
automatically calculating parameters such as channel spacing, drift, and signal-to-noise ratios.

Interfaces * Front Panel Controls: Buttons for selecting display screens, modifying parameters,
and managing data collection. RS-232 Interface: Bi-directional serial interface for data
transmission and remote control. GPIB Interface: General Purpose Interface Bus for remote control
and data transfer (note: some units may have non-functional GPIB cards). Optional Mouse Input:
Support for an external mouse for operational control via a dedicated MOUSE connector. External
Monitor Output: Capability to connect an external monitor for enhanced visualization. Physical
Considerations * Power Supply: Universal power supply compatible with 90-260 VAC, 50/60 Hz
line voltages. Dimensions: 24 $\times$ 16 $\times$ 12 inches (approximate dimensions for shipping). Weight: 25
lbs (approximate shipping weight).

Operational Overview The Burleigh WA-7000 operates by
analyzing interference fringes produced by input laser radiation in a scanning Michelson
interferometer. These fringes are sampled at intervals calibrated by the internal HeNe reference
laser. A digital signal processor computes a Fourier Transform of the resulting interferogram to
generate the optical spectrum, displaying discrete wavelengths as peaks. The instrument can
measure and differentiate up to 200 discrete optical signals, displaying their individual
wavelengths and powers. Why Choose Aumictech for Burleigh WA7000? At Aumictech, we
specialize in sourcing and refurbishing high-end optical test and measurement equipment.
Whether you need precise wavelength measurement, comprehensive WDM channel analysis, or
reliable spectral characterization, our team ensures the Burleigh WA7000 delivers maximum
performance for your application.

WA7000WA7000 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 sheets. Finer absolute accuracy, wavelength range, and resolution belong on the faceplate/calibration certificate.	

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.