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Data Sheet

August 2, 2026

BURLEIGH

Burleigh WA-7000C Multi Wavelength Meter

The Burleigh WA7000C provides a multi-wavelength meter designed for simultaneous measurement of multiple CW laser lines across approximately 1270 to 1680 nm, with optional built-in 1×4 optical switch for multi-port sequential testing in DWDM and multi-channel laser applications. Simultaneous multi-line wavelength and power measurement for DWDM; laser array and multi-wavelength source characterization; multi-port testing via built-in optical switch; production test of multi-channel optical modules; GPIB automated wavelength/power readout. Optical Inputs: Up to four ports with built-in 1×4 optical switch (configuration dependent) Related Models: WA-2000, WA-2500 (single-line Jr class) For single-channel measurements, disable optical switch mode when smoother data is preferred. Provide adequate optical input power for reliable multi-line acquisition. Allow warm-up before absolute wavelength comparisons. Confirm optical switch option and exact accuracy class from faceplate/OEM sheet for the specific unit. Multi-wavelength capability distinguishes WA-7000C from single-line WA-2000/2500 instruments. Alias WA7000C.



MODEL

Burleigh WA-7000C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

WA-7000C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh WA-7000C is a precision multi-wavelength meter for accurate optical measurement across the C- and L-bands. It employs a scanning Michelson interferometer referenced to a HeNe

laser, with an embedded computer that processes interferometer output to deliver wavelength, power, and spectral data simultaneously. The instrument operates as a wavelength meter, power meter, and spectrum analyzer in one platform, making it essential for DWDM system characterization, laser source validation, and fiber optic network commissioning.

Technical Specifications

- Wavelength Range: 1270 nm to 1680 nm
- Wavelength Absolute Accuracy: Better than ± 1 ppm or ± 1.5 ppm
- Wavelength Accuracy at 1550 nm: ± 0.002 nm
- Display Resolution: 0.0001 nm or 0.001 nm selectable
- Maximum Input Power: +18 dBm
- Power Accuracy: ± 0.5 dB
- Power Resolution: 0.01 dB
- Optical Signal-to-Noise Ratio (single line): Greater than 30 dB
- Channel Capacity: Up to 256 simultaneous channels
- Measurement Rate: 0.5 Hz (two-second intervals)
- Optical Interface: FC/PC connector, single-mode fiber (9/125 μm)
- Power Supply: Universal 90–260 VAC, 50/60 Hz

Key Features

- Rigid monolithic interferometer design ensures measurement stability
- HeNe laser reference provides wavelength calibration traceability
- Front-panel floppy drive enables direct data export
- Multiple communication interfaces: GPIB, RS-232 (bi-directional), USB
- Optional 1×4 optical switch module supports sequential multi-channel testing
- Simultaneous wavelength and power determination for each spectral peak

Typical Applications

- DWDM system deployment and validation
- multi-wavelength laser source characterization
- optical network maintenance
- and research environments requiring precise spectral analysis across the C- and L-bands.

Compatibility & Integration

- Interfaces with IBM-compatible personal computers via GPIB, RS-232, or USB.
- Keyboard and mouse ports support direct configuration on compatible units.
- Alternative optical connectors available upon request.

Features & description

From manufacturer datasheet

Features

- Multi-wavelength meter for simultaneous CW multi-line measurement
- Wavelength coverage approximately 1270 to 1680 nm
- Absolute accuracy approximately ± 1.5 pm class at 1500 nm
- Optional built-in 1×4 optical switch for four front-panel optical inputs
- FC/PC interface class
- GPIB remote control (wavelength and power queries)
- Higher multi-line capability than WA-2000/WA-2500 Wavemeter Jr

WA7000C Characteristics / Specifications

PARAMETER	VALUE
Model	WA-7000C (WA7000C)
Manufacturer	Burleigh (EXFO/Thorlabs heritage)
Instrument Type	Multi Wavelength Meter
Wavelength Range	approximately 1270 to 1680 nm
Accuracy	approximately ±1.5 pm at 1500 nm class
Optical Inputs	Up to four ports with built-in 1×4 optical switch (configuration dependent)
Connector	FC/PC class
Remote Interface	GPIB
Related Models	WA-2000, WA-2500 (single-line Jr class)
Alias	WA7000C Standard Operating Conditions For single-channel measurements, disable optical switch mode when smoother data is preferred. Provide adequate optical input power for reliable multi-line acquisition. Allow warm-up before absolute wavelength comparisons.

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

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Alias	WA7000C

Standard Operating Conditions

For single-channel measurements, disable optical switch mode when smoother data is preferred. Provide adequate optical input power for reliable multi-line acquisition. Allow warm-up before absolute wavelength comparisons.

Operational Notes

Confirm optical switch option and exact accuracy class from faceplate/OEM sheet for the specific unit. Multi-wavelength capability distinguishes WA-7000C from single-line WA-2000/2500 instruments. Alias WA7000C.

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.