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Data Sheet

August 1, 2026

BURLEIGH

Burleigh WA-1600 WaveMeter Systems

The Burleigh WA-1600 WaveMeter system provides accurate wavelength measurement for pulsed and CW lasers. This system offers high resolution and absolute accuracy, making it suitable for demanding scientific and industrial applications. The WA-1600 is known for its reliability and ease of integration, ensuring precise laser characterization.



MODEL

Burleigh WA-1600

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

WA-1600

LISTING

<https://aumictechlabs.com/products/wa-1600-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Burleigh WA-1600 Wavemeter System is a precision optical instrument for absolute wavelength measurement of continuous-wave laser sources. It uses a scanning Michelson interferometer that compares the interference fringe pattern of input laser radiation against a stabilized single-frequency HeNe reference laser, delivering high-resolution absolute accuracy across the near-infrared spectrum.

Technical Specifications

Wavelength and Accuracy

Wavelength range: 700 nm to 1700 nm
Absolute wavelength accuracy: ± 0.2 ppm (± 0.30 pm at 1550 nm)
Display resolution: 0.0001 nm
Reference laser accuracy: Better than ± 50 MHz relative to Ne20 atomic line center (± 0.1 ppm)
Optical Input Single-mode fiber: 9/125 μ m with FC/APC connector (standard)
Multimode fiber compatibility supported
Free-space input via aperture with flip-mirror switching
Input sensitivity: -30 dBm (1μ W) for 1200–1700 nm; -20 dBm below 1200 nm
Maximum input power: 10 dBm (10 mW); 100 mW with external attenuator
Optical power

measurement accuracy: ± 0.5 dB ($\pm 10\%$) Optical power measurement resolution: 0.05 dB ($\pm 1\%$)
Performance Measurement rate: 1 per second Warm-up time: 6 minutes typical (reference laser stabilization)
Key Features Fiber optic input is pre-aligned for optimal performance Visible tracer beam from internal reference laser aids free-space alignment Display output modes: wavelength (nm), wavenumber (cm^{-1}), frequency (GHz); air or vacuum values Compact, rugged laboratory package
Compatibility & Integration RS-232 standard bi-directional communication GPIB/IEEE-488 optional SCPI communication scheme for remote operation Monitor port provides interferometer fringe signals and measurement timing signals Power: 90–260 V AC, 50/60 Hz Suitable for CW and modulated laser sources

Features & description

From manufacturer datasheet

Features

- Scanning Michelson interferometer Wavemeter
- Stabilized single-frequency HeNe internal wavelength standard
- Wavelength range 700 to 1700 nm
- Absolute accuracy +/-0.2 ppm
- Display resolution 0.0001 nm
- Simultaneous optical power measurement
- Air refractive-index correction from built-in sensors
- Deviation and averaging (up to 128 readings) functions
- RS-232 standard; GPIB / IEEE-488 optional
- Fiber optic coupler input (FC/APC standard)

WA1600 Characteristics / Specifications

PARAMETER	VALUE
Model	WA-1600
Manufacturer	Burleigh (EXFO / Burleigh Wavemeter lineage)
Instrument Type	Optical wavelength meter (CW)
Wavelength Range	700 to 1700 nm
Absolute Wavelength Accuracy	+/-0.2 ppm (+/-0.30 pm at 1550 nm)
Reference Laser Accuracy	better than +/-50 MHz (+/-0.1 ppm) vs Ne-20 line center
Display Resolution	0.0001 nm
Input Sensitivity	-30 dBm (1 uW) from 1200 to 1700 nm; -20 dBm below 1200 nm
Maximum Input Power	10 dBm (10 mW); higher with external attenuator (up to about 100 mW class with attenuator)
Optical Power Measurement Accuracy	+/-0.5 dB (+/-10%)
Power Resolution	+/-0.05 dB (+/-1%)
Measurement Rate	about 1 per second
Optical Input	fiber coupler, FC/APC standard; 9/125 um single-mode
Interfaces	RS-232 standard; GPIB optional
Power	90-260 VAC, 50/60 Hz Related Model

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-1600
Manufacturer	Burleigh (EXFO / Burleigh Wavemeter lineage)
Instrument Type	Optical wavelength meter (CW)
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Power Resolution	+/-0.05 dB (+/-1%)
Measurement Rate	about 1 per second
Optical Input	fiber coupler, FC/APC standard; 9/125 um single-mode
Interfaces	RS-232 standard; GPIB optional
Power	90-260 VAC, 50/60 Hz

Related Model

WA-1100: multimode HeNe reference with about +/-1 ppm absolute wavelength accuracy

Standard Operating Conditions

Allow reference laser warm-up/stabilization before accuracy claims. Do not exceed maximum optical input. Use clean FC/APC connections. Suitable for CW sources; pulsed sources require confirmation against manual limits.

Operational Notes

"WaveMeter Systems" denotes the WA-1600 instrument platform. Confirm GPIB option if remote automation is required. Do not confuse with WA-1100 accuracy class.

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.