

**Aumictech**

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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ6151B 900-1700nm Optical Wavelength Meter

Yokogawa AQ6151B Optical Wavelength Meter The Yokogawa AQ6151B is a Michelson-interferometer optical wavelength meter with FFT analysis for CW and modulated lasers, DWDM multi-wavelength signals, and Fabry-Perot sources from 900 to 1700 nm depending on suffix. WDM transceiver and laser module wavelength test; DWDM component manufacturing QA; modulated-signal and filter wavelength measurement; high-throughput production wavelength verification. The Yokogawa AQ6151B is a Michelson-interferometer optical wavelength meter with FFT analysis for CW and modulated lasers, DWDM multi-wavelength signals, and Fabry-Perot sources from 900 to 1700 nm depending on suffix. WDM transceiver and laser module wavelength test; DWDM component manufacturing QA; modulated-signal and filter wavelength measurement; high-throughput production wavelength verification.



MODEL

**Yokogawa
AQ6151B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6151B

LISTING

<https://aumictechlabs.com/products/aq6151b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa AQ6151B is a precision optical wavelength meter for the 900-1700 nm range, utilizing a Michelson interferometer and Fast Fourier Transform (FFT) signal processing to deliver high-accuracy wavelength characterization. The instrument measures single and multiple

wavelengths simultaneously (up to 1024), with wavelength resolution to 0.0001 nm and measurement times as fast as 0.2 seconds. It accommodates modulated light signals and optical filter characterization, making it suited for telecommunications, fiber optic system validation, and optical component inspection including DFB lasers, tunable lasers, optical transceivers, and WDM transmission systems.

Technical Specifications

Wavelength Measurement Range: 900-1700 nm
Accuracy: ± 0.2 ppm
Resolution: 0.0001 nm
Measurement time: 0.2 seconds (fast) or 0.3 seconds (normal)
Minimum resolvable separation: 5 GHz or 10 GHz
Measurement units: nm, THz, cm^{-1}
Frequency bands: O Band, L Band
Optical Input Input power range: -40 to 18 dBm
Return loss: 35 dB
Fiber type: Single Mode (SM, ITU-T G.652)
Optical Power Measurement Accuracy: ± 0.5 dB (at 1550 nm, -10 dBm)
Linearity: ± 0.3 dB (at 1550 nm, -30 dBm or higher)
Polarization dependence: ± 0.5 dB
Resolution: 0.01 dB
Environmental & Power
Operating temperature: 5 to 35 °C
Relative humidity: 20 to 80% RH
Warm-up time: 60 minutes
AC input: 100-240 VAC, 50/60 Hz
Power consumption: 100 VA
Laser class: CLASS 1

Key Features

Simultaneous multi-wavelength measurement capability (up to 1024 wavelengths)
Fast measurement cycles support high-throughput testing workflows
5.7-inch color LCD display (640 × 480 dots)
Internal memory 256 MB with external USB storage
Modulated light signal analysis and optical filter characterization

Interfaces & Compatibility
Optical connectors: FC/PC, SC/PC
Communication: Ethernet, USB, VGA, GPIB
Recalibration interval: 1 year

Features & description

From manufacturer datasheet

Features

- Wavelength accuracy ± 0.3 ppm (± 0.5 pm at 1550 nm, Normal update)

AQ6151B Characteristics / Specifications

PARAMETER	VALUE
Model	AQ6151B
Manufacturer	Yokogawa
Instrument Type	Optical Wavelength Meter
Wavelength Range Standard	1270 to 1650 nm (-10 suffix)
Wavelength Range Extended	1200 to 1700 nm (-20 suffix)
Wavelength Range Wide	900 to 1700 nm (-30 suffix)
Wavelength Accuracy	+/-0.3 ppm (+/-0.5 pm at 1550 nm, Normal update)
Wavelength Display Resolution	0.0001 nm
Minimum Wavelength Separation	5 GHz (Normal); 10 GHz (Fast)
Maximum Wavelengths	1024 (multi-wavelength type); 1 (single-wavelength type)
Minimum Input Power	-40 dBm (1270 to 1600 nm)
Maximum Input Power	+10 dBm (total)
Safe Maximum Input Power	+18 dBm (total)
Power Accuracy	+/-0.5 dB (1550 nm, -10 dBm)
Power Linearity	+/-0.3 dB (1550 nm, -30 dBm or higher)
Applicable Fiber	SM (ITU-T G.652)
Return Loss	35 dB typical
Measurement Time	0.2 s or less (Fast); 0.3 s or less (Normal)
Display	5.7-inch color LCD, 640 × 480
Interfaces	GP-IB; Ethernet; USB; VGA output
Optical Connector	FC/PC or SC/PC (universal adapter)
Warm Up Time	60 minutes or more
Power Requirements	100 to 240 VAC, 50/60 Hz, approx. 100 VA
Dimensions	approx. 426 W x 132 H x 450 D mm
Mass	approx. 11 kg

PARAMETER	VALUE
Alias	AQ6151B Notes Specs from Yokogawa AQ6151B datasheet. Confirm suffix (-10/-20/-30 range; -MW multi vs -SW single wavelength). AQ6151B offers +/-0.3 ppm accuracy class.
Wavelength range	Standard: 1270 to 1650 nm (-10 suffix)

AQ6151B Specifications

PARAMETER	VALUE
Yokogawa AQ6151B Optical Wavelength Meter	Overview
Key Features	- Wavelength accuracy +/-0.3 ppm (+/-0.5 pm at 1550 nm, Normal update)
Technical Specifications	Model: AQ6151B

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

Specs from Yokogawa AQ6151B datasheet. Confirm suffix (-10/-20/-30 range; -MW multi vs -SW single wavelength). AQ6151B offers +/-0.3 ppm 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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.