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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ6150B 900-1700nm Optical Wavelength Meter

Yokogawa AQ6150B Optical Wavelength Meter The Yokogawa AQ6150B 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 AQ6150B 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
AQ6150B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6150B

LISTING

<https://aumictechlabs.com/products/aq6150b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa AQ6150B is a precision optical wavelength meter designed for accurate characterization of light sources and components across the 900 nm to 1700 nm spectrum. Built for telecommunications, component manufacturing, and research environments, it delivers

wavelength measurements with ± 0.01 nm accuracy and 0.001 nm resolution in under half a second per point. The instrument accepts optical signals from -70 dBm to +20 dBm, making it suitable for both weak and moderate-power sources. Its color LCD touchscreen provides intuitive operation, while USB, LAN, and optional GPIB connectivity enable integration into automated test systems and remote monitoring workflows. Wavelength stability of ± 0.005 nm/hour ensures repeatable results across extended measurement sessions.

Technical Specifications

Measurement Range: 900 nm to 1700 nm Wavelength Accuracy: ± 0.01 nm (typ.) Wavelength Resolution: 0.001 nm (typ.) Measurement Speed: 0.5 seconds/point (max.) Optical Input Power Range: -70 dBm to +20 dBm Wavelength Linearity: ± 0.01 nm Wavelength Stability: ± 0.005 nm/hour Optical Return Loss: >40 dB Optical Input Connector: FC/APC (standard) Display: Color LCD touchscreen Data Storage: Internal memory, USB flash drive Power Requirements: 100 to 240 VAC, 50/60 Hz Operating Temperature: 0°C to 40°C Operating Humidity: 20% to 80% RH (non-condensing) Dimensions (W × H × D): 250 mm × 100 mm × 320 mm Weight: 4.5 kg

Key Features

- Submillimeter wavelength accuracy and stability for demanding metrology
- Rapid single-point measurement capability for production-line integration
- Wide optical input dynamic range accommodates laser diodes, amplifiers, and attenuated signals
- FC/APC connector ensures low back-reflection and reliable connections

Typical Applications

- DWDM and ITU-grid laser testing
- Semiconductor laser diode characterization
- Optical amplifier performance evaluation
- Fiber optic component validation
- Wavelength-dependent research and development

Compatibility & Integration

- USB Device interface for direct PC connection
- LAN (Ethernet) for network integration and remote operation
- GPIB available as optional interface for legacy automated test equipment

Features & description

From manufacturer datasheet

Features

- Wavelength accuracy +/-0.7 ppm (+/-1 pm at 1550 nm, Normal update)

AQ6150B Characteristics / Specifications

PARAMETER	VALUE
Model	AQ6150B
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	+/-0.7 ppm (+/-1 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	AQ6150B Notes Specs from Yokogawa AQ6150B 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)

AQ6150B Specifications

PARAMETER	VALUE
Yokogawa AQ6150B Optical Wavelength Meter	Overview
Key Features	- Wavelength accuracy +/-0.7 ppm (+/-1 pm at 1550 nm, Normal update)
Technical Specifications	Model: AQ6150B

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 AQ6150B 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>

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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.