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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ6377 1900-5500nm Optical Spectrum Analyzer

Yokogawa AQ6377 Optical Spectrum Analyzer The Yokogawa AQ6377 is a diffraction-grating benchtop optical spectrum analyzer covering 1900 to 5500 nm for WDM, component, and research photonics spectral measurement. Built-in analysis for WDM, OSNR, EDFA NF, laser SMSR, and related telecom/photonics tests. WDM channel and OSNR analysis; EDFA gain and noise figure; DFB/FP/LED spectral characterization; visible-to-IR component test; R&D and production optical spectrum verification. The Yokogawa AQ6377 is a diffraction-grating benchtop optical spectrum analyzer covering 1900 to 5500 nm for WDM, component, and research photonics spectral measurement. Built-in analysis for WDM, OSNR, EDFA NF, laser SMSR, and related telecom/photonics tests. WDM channel and OSNR analysis; EDFA gain and noise figure; DFB/FP/LED spectral characterization; visible-to-IR component test; R&D and production optical spectrum verification.



MODEL

Yokogawa AQ6377

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6377

LISTING

<https://aumictechlabs.com/products/aq6377-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ6377 is a optical spectrum analyzer for precise characterization across the 1900–5500 nm wavelength range. Using dispersive spectroscopy, it delivers measurements from –60 dBm to +13 dBm with 50 dB close-in dynamic range and wavelength accuracy of ± 0.5 nm.

The instrument features a free-space optical input for high coupling efficiency and maintenance-free operation, an integrated gas purge system to suppress water vapor absorption, and a built-in cut filter that removes high-order diffraction below 1500 nm. Wavelength resolution spans 0.2 nm to 5 nm across selectable display modes: wavelength (nm), frequency (THz), or wave number (cm^{-1}). Applications include environmental sensing, medical diagnostics, gas analysis, quantum cascade laser characterization, and advanced photonic research.

Technical Specifications

Wavelength Range: 1900 nm to 5500 nm Wavelength Resolution: 0.2 nm to 5 nm (selectable)
Wavelength Accuracy: ± 0.5 nm Level Range: -60 dBm to $+13$ dBm Dynamic Range (Close-in): 50 dB
Horizontal Scale Modes: Wavelength (nm), Frequency (THz), Wave Number (cm^{-1}) Wavelength Reference: Integrated acetylene absorption calibration with 0.6 picometer precision

Key Features

Free-Space Optical Input: Eliminates internal fiber maintenance; accepts both single-mode and multi-mode fibers with /PC or /APC connectors Double Speed Mode: Increases sweep speed up to 2 $\times$ standard rate with 2 dB sensitivity penalty Gas Purge System: Nitrogen purging through dedicated ports reduces atmospheric water vapor effects Cut Filter: Suppresses incoming light below 1500 nm to eliminate high-order diffracted light Level Fluctuation Measurement: Tracks intensity variations over time at specific wavelengths for optical alignment and stability assessment Built-in Calibration: Requires no external calibration equipment

Optical Input & Integration Fiber-optic coupling via /PC or /APC connectors to both single-mode and multi-mode fibers Free-space design ensures measurement repeatability without connector-induced losses HIGH1–3 sensitivity modes for extended dynamic range measurements

Features & description

From manufacturer datasheet

Features

- Wavelength range 1900 to 5500 nm

Polarization Dependence: +/-0.15 dB typical (1550 nm class)

Warm Up Time: minimum 1 hour Applicable Fiber: SM (9/125); MM (50/125, 62.5/125); large core to 800 um (model dependent) Optical Connector: FC or SC via adapter (option) Built in Reference Source: wavelength reference for alignment and calibration Alias: AQ6377 Span Range: per AQ6377 datasheet Level Accuracy: per AQ6377 datasheet Purge Feature: required for MWIR band accuracy Dimensions: approx. 426 W x 177 H x 459 D mm Mass: approx. 14 kg Operating Temperature: +10 to +30 degCperformance guarantee Notes Specs from Yokogawa AQ6377 datasheet and OSA selection guide. MWIR 5 um class for environmental and specialty IR. Confirm installed suffix (-10 Standard, -20 High Performance where applicable).

AQ6377 Characteristics / Specifications

PARAMETER	VALUE
Model	AQ6377
Manufacturer	Yokogawa
Instrument Type	Optical Spectrum Analyzer
Wavelength Range	1900 to 5500 nm
Wavelength Accuracy	+/-0.5 nm
Resolution Settings	0.2 to 2 nm
Level Range	+20 to -60 dBm
Level Sensitivity	-40 dBm (1900 to 2200 nm); -60 dBm (2900 to 4500 nm)
Close in Dynamic Range	50 dB (+/-5.0 nm)
Input	Free-space; SM, MM, and large-core fiber compatible
Analysis Functions	WDM, OSNR, EDFA NF, DFB/FP/LED, SMSR, color analysis (visible models)
Sweep Speed	per AQ6377 datasheet
Max Safe Input Power	+20 dBm class (wavelength dependent)
Polarization Dependence	+/-0.15 dB typical (1550 nm class)
Warm Up Time	minimum 1 hour
Applicable Fiber	SM (9/125); MM (50/125, 62.5/125); large core to 800 um (model dependent)
Optical Connector	FC or SC via adapter (option)
Built in Reference Source	wavelength reference for alignment and calibration
Alias	AQ6377
Span Range	per AQ6377 datasheet
Level Accuracy	per AQ6377 datasheet
Purge Feature	required for MWIR band accuracy
Dimensions	approx. 426 W x 177 H x 459 D mm
Mass	approx. 14 kg

PARAMETER	VALUE
Operating Temperature	+10 to +30 degCperformance guarantee Notes Specs from Yokogawa AQ6377 datasheet and OSA selection guide. MWIR 5 um class for environmental and specialty IR. Confirm installed suffix (-10 Standard, -20 High Performance where applicable).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	+10 to +30 degCperformance guarantee
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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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Level Accuracy	per AQ6377 datasheet

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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 ·
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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.