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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ6376E 1500-3400nm Optical Spectrum Analyzer

Yokogawa AQ6376E Optical Spectrum Analyzer The Yokogawa AQ6376E is a diffraction-grating benchtop optical spectrum analyzer covering 1500 to 3400 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 AQ6376E is a diffraction-grating benchtop optical spectrum analyzer covering 1500 to 3400 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
AQ6376E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6376E

LISTING

<https://aumictechlabs.com/products/aq6376e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa AQ6376E is a bench-top optical spectrum analyzer covering 1500–3400 nm, extending into the Mid-Wave Infrared region. It delivers high-accuracy wavelength measurements,

exceptional sensitivity down to -65 dBm, and a 78 dB measurement dynamic range. The instrument supports both free-space and fiber-coupled inputs (single-mode and multimode up to 400 μm) and executes full-span sweeps in as little as 0.5 seconds using Double Speed Mode. Built-in gas purging, cut filtering, and fast auto-calibration eliminate common measurement artifacts. Advanced Pulsed Light Measurement capability and a double-pass monochromator design enable precise characterization of environmental gases (CO_x , NO_x , C_xH_y), laser sources, and infrared optical components in R&D and manufacturing environments.

Technical Specifications
Wavelength range: 1500–3400 nm Wavelength accuracy: ± 0.5 nm Wavelength resolution: 0.1 nm
Close-in dynamic range: 55 dB Measurement dynamic range: 78 dB Level sensitivity: -65 dBm
Optical input: Free-space and fiber-coupled (single-mode, multimode to 400 μm) Sweep time: 0.5 seconds minimum (100 nm span, Double Speed Mode) Double-pass monochromator for high resolution and dynamic range

Key Features Double Speed Mode for up to 2 $\times$ faster sweep performance Advanced Pulsed Light Measurement (APLM) mode Gas purging ports to reduce water vapor absorption Built-in cut filter for high-order diffraction suppression Fast auto-calibration with internal reference source (<2 minutes) 55 dB close-in dynamic range for signal separation Large touchscreen display for intuitive operation Built-in parameter analysis for automatic device characterization Ethernet interface for high-speed data transfer

Typical Applications Environmental gas sensing and monitoring (CO_x , NO_x , hydrocarbons) Laser spectroscopy and source characterization Optical device and component testing in the infrared Manufacturing quality assurance for infrared optical systems

Compatibility & Integration Accepts single-mode and multimode fiber inputs up to 400 μm diameter. Supports external reference sources for wavelength calibration. Ethernet connectivity enables rapid remote measurement and data logging.

Features & description

From manufacturer datasheet

Features

- Wavelength range 1500 to 3400 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: AQ6376E Span Range: per AQ6376E datasheet Level Accuracy: per AQ6376E datasheet Purge Feature: recommended for mid-IR operation 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 AQ6376E datasheet and OSA selection guide. Mid-IR 3 um class OSA. Confirm installed suffix (-10 Standard, -20 High Performance where applicable).

AQ6376E Characteristics / Specifications

PARAMETER	VALUE
Model	AQ6376E
Manufacturer	Yokogawa
Instrument Type	Optical Spectrum Analyzer
Wavelength Range	1500 to 3400 nm
Wavelength Accuracy	+/-0.5 nm
Resolution Settings	0.1 to 2 nm
Level Range	+20 to -65 dBm
Level Sensitivity	-65 dBm (1800 to 2200 nm)
Close in Dynamic Range	45 dB (+/-1.0 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 AQ6376E 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	AQ6376E
Span Range	per AQ6376E datasheet
Level Accuracy	per AQ6376E datasheet
Purge Feature	recommended for mid-IR operation
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 AQ6376E datasheet and OSA selection guide. Mid-IR 3 um class OSA. 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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Notes

Specs from Yokogawa AQ6376E datasheet and OSA selection guide. Mid-IR 3 um class OSA. Confirm installed suffix (-10 Standard, -20 High Performance where applicable).

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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<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.