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Data Sheet

August 14, 2026

ADVANTEST

ADVANTEST Q8381A Optical Spectrum Analyzer 350-1750nm same AQ6315E CALIBRATED

Advantest Q8381A Optical Spectrum Analyzer The Advantest Q8381A is a wideband optical spectrum analyzer covering 350 to 1750 nm for visible LEDs and telecom devices. OEM listings specify minus 85 to plus 10 dBm level range in the 1.1 to 1.6 μ m band, 0.1 nm minimum resolution, plus or minus 1.5 dB level accuracy, and plus or minus 0.1 dB polarization dependence. LED and display-device spectra, visible-to-IR component test, and general optical spectrum measurements including pulse light. 350 to 1750 nm single instrument coverage The Advantest Q8381A is a wideband optical spectrum analyzer covering 350 to 1750 nm for visible LEDs and telecom devices. OEM listings specify minus 85 to plus 10 dBm level range in the 1.1 to 1.6 μ m band, 0.1 nm minimum resolution, plus or minus 1.5 dB level accuracy, and plus or minus 0.1 dB polarization dependence. LED and display-device spectra, visible-to-IR component test, and general optical spectrum measurements including pulse light. 350 to 1750 nm single instrument coverage Power monitoring and luminosity compensation display



MODEL

Advantest Q8381A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8381A

LISTING

<https://aumictechlabs.com/products/q8381a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest Q8381A is a benchtop optical spectrum analyzer delivering precise spectral characterization across the 350 nm to 1750 nm range. This instrument combines wide wavelength

coverage spanning UV through NIR with dynamic range exceeding 40 dB, making it suitable for telecommunications, fiber optics, optical component testing, and research applications. The Q8381A provides wavelength accuracy of ± 0.5 nm at 23 ± 5 °C and level accuracy of ± 1.5 dB or less, supported by selectable resolution from 0.1 nm to 5.0 nm. Automated functions including peak search, half-value width measurement, and pulse light detection streamline measurement workflows. High-speed sweep capability delivers sub-second acquisition across 200 nm spans. A built-in thermal printer records results in 10 seconds or less, while GP-IB interface enables remote operation and data transfer.

Technical Specifications

Wavelength Range: 350 nm to 1750 nm
Wavelength Accuracy: ± 0.5 nm (at 23 ± 5 °C); ± 1.0 nm (at 10 to 40 °C)
Wavelength Repeatability: 0.1 nm or less (one-minute repetitive sweep)
Wavelength Resolution: 0.1 nm, 0.2 nm, 0.5 nm, 1.0 nm, 2.0 nm, 5.0 nm
Dynamic Range: 40 dB or more (± 1 nm from peak); input sensitivity -85 dBm; typical range -85 dB to +10 dBm (1.1–1.6 μ m)
Level Accuracy: ± 1.5 dB or less (0.633 μ m, 1.31 μ m, 1.55 μ m)
Level Linearity: ± 0.5 dB/20 dB, ± 1.0 dB/40 dB, ± 0.5 dB/10 dB, ± 1.0 dB/40 dB
Polarization Dependency: ± 0.1 dB or less
Sweep Time: 0.8 seconds or less (200 nm span); 1.0 second or less (50 nm span)

Key Features

- Automatic optimum measurement condition setting and peak search
- Half-value width measurement function
- Pulse light measurement capability with low-level data retention
- Power monitoring and luminosity compensation display
- Built-in thermal printer (10 seconds or less per print)
- GP-IB interface for remote control and data output

Typical Applications

- Telecommunications system testing
- Fiber optics characterization
- Optical component and device validation
- Display LED measurements
- Research and development

Compatibility & Integration

- GP-IB remote interface standard
- Benchtop form factor

Features & description

From manufacturer datasheet

Polarization Dependence: plus or minus 0.1 dB or less

Dynamic Range Close In: 40 dB or more at plus or minus 1 nm from peak Sweep Time 200 nm Span: 0.8 s or less with span 200 nm or less Remote Interface: GPIB Internal Storage: 3.5 inch FDD and built in printer Display: OSA CRT or LCD era display Form Factor: Benchtop Input Type: Optical fiber input Operating Temperature Class: 10 to 40 C class for wavelength accuracy row

Q8381A Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	350 to 1750 nm
Wavelength Resolution Settings	0.1 0.2 0.5 1.0 2.0 5.0 nm
Level Range 1.1 to 1.6 um	minus 85 to plus 10 dBm
Level Sensitivity	minus 85 dBm class high input sensitivity
Level Accuracy	plus or minus 1.5 dB or less at 0.633 1.31 and 1.55 um
Level Linearity 20 dB	plus or minus 0.5 dB per 20 dB
Level Linearity 40 dB	plus or minus 1.0 dB per 40 dB
Wavelength Accuracy 23 C	plus or minus 0.5 nm at 23 plus or minus 5 C
Wavelength Accuracy Wide Temp	1.0 nm 10 to 40 C
Wavelength Repeatability	0.1 nm or less during one minute repetitive sweep
Polarization Dependence	plus or minus 0.1 dB or less
Dynamic Range Close In	40 dB or more at plus or minus 1 nm from peak
Sweep Time 200 nm Span	0.8 s or less with span 200 nm or less
Remote Interface	GPIB
Internal Storage	3.5 inch FDD and built in printer
Display	OSA CRT or LCD era display
Form Factor	Benchtop
Input Type	Optical fiber input
Operating Temperature Class	10 to 40 C class for wavelength accuracy row
Applications Class	Visible LED and telecom device spectra
Pulse Measurement	Unique pulse light measurement function
Power Monitor	Power monitoring function
Luminosity Display	Luminosity compensation display function
Auto Functions	Automatic optimum condition peak search and half value width
Wavelength resolution	Settings: 0.1 0.2 0.5 1.0 2.0 5.0 nm

PARAMETER	VALUE
Operating temperature	Class: 10 to 40 C class for wavelength accuracy row

Q8381A Specifications

PARAMETER	VALUE
Advantest Q8381A Optical Spectrum Analyzer	Overview
Key Features	350 to 1750 nm single instrument coverage
Pulse light measurement function	Power monitoring and luminosity compensation display
Technical Specifications	Wavelength Range: 350 to 1750 nm
Notes	From Advantest Q8381A OEM specification listings (350 to 1750 nm OSA). Confirm binding accuracy footnotes on the unit datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 10 to 40 C class for wavelength accuracy row
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Operating Temperature Class	10 to 40 C class for wavelength accuracy row
Applications Class	Visible LED and telecom device spectra
Pulse Measurement	Unique pulse light measurement function
Power Monitor	Power monitoring function
Luminosity Display	Luminosity compensation display function
Auto Functions	Automatic optimum condition peak search and half value width Notes From Advantest Q8381A OEM specification listings (350 to 1750 nm OSA). Confirm binding accuracy footnotes on the unit datasheet.

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
Wavelength Range	350 to 1750 nm
Wavelength Resolution Settings	0.1 0.2 0.5 1.0 2.0 5.0 nm
Level Range 1.1 to 1.6 um	minus 85 to plus 10 dBm
Level Sensitivity	minus 85 dBm class high input sensitivity
Level Accuracy	plus or minus 1.5 dB or less at 0.633 1.31 and 1.55 um
Level Linearity 20 dB	plus or minus 0.5 dB per 20 dB
Level Linearity 40 dB	plus or minus 1.0 dB per 40 dB
Wavelength Accuracy 23 C	plus or minus 0.5 nm at 23 plus or minus 5 C
Wavelength Accuracy Wide Temp	1.0 nm 10 to 40 C
Wavelength Repeatability	0.1 nm or less during one minute repetitive sweep
Polarization Dependence	plus or minus 0.1 dB or less
Dynamic Range Close In	40 dB or more at plus or minus 1 nm from peak
Sweep Time 200 nm Span	0.8 s or less with span 200 nm or less
Remote Interface	GPIB
Internal Storage	3.5 inch FDD and built in printer
Display	OSA CRT or LCD era display
Form Factor	Benchtop
Input Type	Optical fiber input
Operating Temperature Class	10 to 40 C class for wavelength accuracy row
Applications Class	Visible LED and telecom device spectra
Pulse Measurement	Unique pulse light measurement function
Power Monitor	Power monitoring function
Luminosity Display	Luminosity compensation display function
Auto Functions	Automatic optimum condition peak search and half value width

Notes

From Advantest Q8381A OEM specification listings (350 to 1750 nm OSA). Confirm binding accuracy footnotes on the unit datasheet.

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
sales@aumictech.com · +1 (484) 841-9341
<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.