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Data Sheet

August 14, 2026

ADVANTEST

ADVANTEST Q8381 Optical Spectrum Analyzer 350-1750nm same AQ6315E CALIBRATED

Advantest Q8381 Optical Spectrum Analyzer The Advantest Q8381 is the wideband optical spectrum analyzer covering 350 to 1750 nm in the same Q8381/Q8381A family used for visible LEDs and communication devices. OEM Q8381A family tables list minus 85 to plus 10 dBm in the 1.1 to 1.6 um band, 0.1 nm resolution, plus or minus 1.5 dB level accuracy, and plus or minus 0.1 dB polarization dependence. LED spectra, visible-to-IR optical device evaluation, and general OSA work including pulse light. Wavelength Resolution Settings: 0.1 0.2 0.5 1.0 2.0 5.0 nm The Advantest Q8381 is the wideband optical spectrum analyzer covering 350 to 1750 nm in the same Q8381/Q8381A family used for visible LEDs and communication devices. OEM Q8381A family tables list minus 85 to plus 10 dBm in the 1.1 to 1.6 um band, 0.1 nm resolution, plus or minus 1.5 dB level accuracy, and plus or minus 0.1 dB polarization dependence. LED spectra, visible-to-IR optical device evaluation, and general OSA work including pulse light. Wavelength Resolution Settings: 0.1 0.2 0.5 1.0 2.0 5.0 nm



MODEL

Advantest Q8381

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8381

LISTING

<https://aumictechlabs.com/products/q8381-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest Q8381 Optical Spectrum Analyzer is a benchtop instrument engineered for precise optical signal analysis across the ultraviolet to mid-infrared spectrum. It delivers high-resolution

measurement of optical components, transceivers, and complete systems in communications and networking environments. The combination of broad wavelength coverage, fast acquisition, and specialized pulse-light measurement capability makes it suitable for both laboratory characterization and production testing.

Technical Specifications

Wavelength Performance
Operating range: 350 nm to 1750 nm Resolution: 100.0 pm Wavelength accuracy: ± 0.5 nm (350–1750 nm) Wavelength linearity: ± 0.02 nm (1510–1570 nm) Wavelength repeatability: ± 0.005 nm

Signal Measurement & Dynamic Range
Power range: -85 dBm to $+10$ dBm (1.1–1.6 μ m) Input sensitivity: -85 dBm Level measurement accuracy: ± 1.5 dB Polarization dependence: ± 0.1 dB or less Maximum input power: $+10$ dBm Measurement Speed Standard mode sweep: 0.8 seconds or less (200 nm span) Full measurement cycle: less than one second with linear or logarithmic scaling

Key Features
Pulse light measurement function for low-level and discontinuous signals Power monitoring capability Automatic optimum measurement condition setting Automatic peak search Half-value width measurement Luminosity compensation display Side-mode suppression ratio (SMSR) measurement

Typical Applications
Optical communications testing, component characterization, transceiver validation, and system-level optical signal analysis across UV and infrared wavelength bands.

Compatibility & Integration
Benchtop configuration suitable for laboratory and production environments. Functionally equivalent to the AQ6315E across specified wavelength range.

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 class Form Factor: Benchtop Input Type: Optical fiber input Pulse Measurement: Pulse light measurement function Power Monitor: Power monitoring function Auto Functions: Automatic peak search and half value width Series Family: Advantest Q8381 Q8381A Operating Temperature Class: Lab OSA class matching wavelength accuracy footnotes Display: OSA display with marker analysis Notes From Advantest Q8381/Q8381A family OSA specification listings. Queue listing matches the 350 to 1750 nm Q8381A table; use the faceplate revision for A versus non-A firmware.

Q8381 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
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 class
Form Factor	Benchtop
Input Type	Optical fiber input
Pulse Measurement	Pulse light measurement function
Power Monitor	Power monitoring function
Auto Functions	Automatic peak search and half value width
Series Family	Advantest Q8381 Q8381A
Operating Temperature Class	Lab OSA class matching wavelength accuracy footnotes
Display	OSA display with marker analysis
Wavelength resolution	Settings: 0.1 0.2 0.5 1.0 2.0 5.0 nm
Operating temperature	Class: Lab OSA class matching wavelength accuracy footnotes

Q8381 Specifications

PARAMETER	VALUE
Advantest Q8381 Optical Spectrum Analyzer	Overview
Key Features	350 to 1750 nm coverage
Technical Specifications	Wavelength Range: 350 to 1750 nm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Lab OSA class matching wavelength accuracy footnotes
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Operating Temperature Class	Lab OSA class matching wavelength accuracy footnotes
Display	OSA display with marker analysis Notes From Advantest Q8381/Q8381A family OSA specification listings. Queue listing matches the 350 to 1750 nm Q8381A table; use the faceplate revision forAversus non-A firmware.

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 Sensitivity	minus 85 dBm class
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Operating Temperature Class	Lab OSA class matching wavelength accuracy footnotes
Display	OSA display with marker analysis
Notes	
From Advantest Q8381/Q8381A family OSA specification listings. Queue listing matches the 350 to 1750 nm Q8381A table; use the faceplate revision forAversus non-A firmware.	

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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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.