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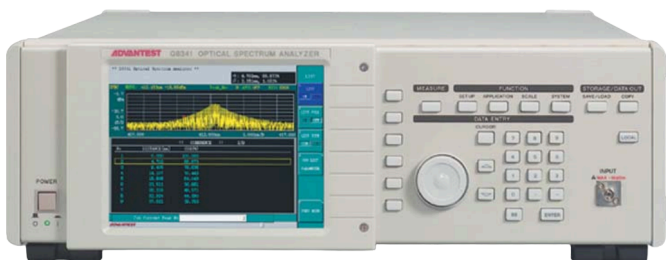
Data Sheet

August 14, 2026

ADVANTEST

Advantest Q8341 350nm-1000nm Optical Spectrum Analyzer

Advantest Q8341 Optical Spectrum Analyzer The Advantest Q8341 is a Michelson-interferometer Fourier OSA for visible radiation from 350 to 1000 nm. OEM Q8341-1E tables list 0.05 nm standard / 0.01 nm option resolution at 650 nm, built-in He-Ne wavelength reference, coherence analysis to 10.3 mm standard or 41.4 mm with option, and 0.5 s option sweep. CD/DVD and blue-violet laser diode spectra, coherence of optical-disc lasers, and high-throughput LD production test. Coherence analysis with 0.001 mm resolution The Advantest Q8341 is a Michelson-interferometer Fourier OSA for visible radiation from 350 to 1000 nm. OEM Q8341-1E tables list 0.05 nm standard / 0.01 nm option resolution at 650 nm, built-in He-Ne wavelength reference, coherence analysis to 10.3 mm standard or 41.4 mm with option, and 0.5 s option sweep. CD/DVD and blue-violet laser diode spectra, coherence of optical-disc lasers, and high-throughput LD production test. Coherence analysis with 0.001 mm resolution Option 70 high speed sweep and long coherence



MODEL

Advantest Q8341

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8341

LISTING

<https://aumictechlabs.com/products/q8341-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantest Q8341 is a benchtop optical spectrum analyzer for precise measurement and analysis of optical spectra across the visible and near-infrared range. Operating from 350 nm to

1000 nm, it employs Fourier spectroscopy with a Michelson interferometer architecture to deliver coherence measurements and peak wavelength identification. A built-in He-Ne laser provides wavelength reference, ensuring traceable accuracy across the measurement range.

Technical Specifications

Wavelength Measurement Range: 350 nm to 1000 nm
Measurement Principle: Michelson interferometer with Fourier spectroscopy
Wavelength Resolution: 0.05 nm at 650 nm (standard); 0.01 nm at 650 nm (optional)
Peak Wavelength Measurement Resolution: 0.001 nm
Wavelength Measurement Accuracy: ± 0.05 nm (standard); ± 0.01 nm (optional)
Coherence Measurement Resolution: 0.001 mm
Maximum Coherence Measurement Length: 10 mm (standard); 40 mm (optional)
Maximum Input Level: ± 10 dBm
Measurement Speed: 0.5 seconds fast sweep (optional)
Internal Wavelength Reference: He-Ne laser
Display: 6.5-inch color LCD, 640 $\times$ 480 resolution
Dimensions: 424 mm (H) $\times$ 132 mm (W) $\times$ 500 mm (D)
Weight: 15 kg

Key Features

Sub-nanometer wavelength resolution enables precise spectral characterization of laser diodes, including CD/DVD and blue-violet types
Fourier spectroscopy with Michelson interferometer provides coherence and spectral phase information
Fast measurement speed supports efficient thermal characterization and dynamic testing
Dual-range coherence measurement accommodates short and extended optical path length analysis

Environmental & Power

Operating Temperature: $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$
Storage Temperature: -10°C to $+50^{\circ}\text{C}$
Relative Humidity: 85% maximum operating (non-condensing); 90% maximum storage (non-condensing)
Power Supply: 100–120 VAC / 220–240 VAC, 50/60 Hz, ≤ 150 VA; automatic voltage switching

Typical Applications

Laser diode characterization, optical coherence analysis, spectral purity assessment, and temperature-dependent optical property evaluation.

Q8341 Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	350 to 1000 nm
Wavelength Accuracy Standard	plus or minus 0.05 nm
Wavelength Accuracy Option High Res	plus or minus 0.01 nm high resolution mode
Wavelength Resolution Standard	0.05 nm at 650 nm
Wavelength Resolution Option	0.01 nm high resolution mode at 650 nm
Peak Wavelength Resolution	0.001 nm measured resolution of peak wavelength
Input Sensitivity Full Band	minus 50 dBm or less 350 to 1000 nm
Input Sensitivity 400 to 900 nm	minus 55 dBm or less
Maximum Input Power	plus 10 dBm
Level Accuracy	plus or minus 1.0 dB at 780 nm input minus 10 dBm
Dynamic Range	30 dB or more peak to DANL 8 times averaging
Coherence Length Standard	10.3 mm max
Coherence Length Option	41.4 mm max
Coherence Resolution	0.001 mm
Input Return Loss	30 dB
Measurement Time Standard CW	2 s or less
Measurement Time Option CW	0.5 s or less normal resolution 1.0 s or less high resolution
Measurement Time Pulse	2 s or less
Optical Connector	FC type
Applicable Fiber	50/125 GI fiber
Remote Interface	GPIB IEEE 488.2 Ethernet 10/100 Base
Display	6.5 inch color LCD 640 × 480
Line Power	100 to 120 VAC / 220 to 240 VAC 50/60 Hz 150 VA or less auto
Dimensions	approx 424 H x 132 W x 500 D mm
Mass	16 kg or less

PARAMETER	VALUE
Operating Temperature	plus 10 to plus 40 C 85 percent RH max no condensation
Wavelength resolution	Standard: 0.05 nm at 650 nm
Return loss	30 dB

Q8341 Specifications

PARAMETER	VALUE
Advantest Q8341 Optical Spectrum Analyzer	Overview
Coherence analysis with 0.001 mm resolution	Option 70 high speed sweep and long coherence
Technical Specifications	Wavelength Range: 350 to 1000 nm
Notes	From Advantest Q8341-1E December 2003 specification tables. Option Q8341+70 adds high-speed sweep and extended coherence length.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 10 to plus 40 C 85 percent RH max no condensation
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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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Wavelength Accuracy Option High Res	plus or minus 0.01 nm high resolution mode
Wavelength Resolution Standard	0.05 nm at 650 nm
Wavelength Resolution Option	0.01 nm high resolution mode at 650 nm
Peak Wavelength Resolution	0.001 nm measured resolution of peak wavelength
Input Sensitivity Full Band	minus 50 dBm or less 350 to 1000 nm
Input Sensitivity 400 to 900 nm	minus 55 dBm or less
Maximum Input Power	plus 10 dBm
Level Accuracy	plus or minus 1.0 dB at 780 nm input minus 10 dBm
Dynamic Range	30 dB or more peak to DANL 8 times averaging
Coherence Length Standard	10.3 mm max
Coherence Length Option	41.4 mm max
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Input Return Loss	30 dB
Measurement Time Standard CW	2 s or less
Measurement Time Option CW	0.5 s or less normal resolution 1.0 s or less high resolution
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Applicable Fiber	50/125 GI fiber
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Notes

From Advantest Q8341-1E December 2003 specification tables. Option Q8341+70 adds high-speed sweep and extended coherence length.

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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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.