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Data Sheet

August 3, 2026

ADVANTEST

Advantest Q8344A 350nm-1750nm Optical Spectrum Analyzer

Advantest Q8344A 350nm-1750nm Optical Spectrum Analyzer The Q8344A provides a Michelson-interferometer Fourier-transform optical spectrum analyzer covering 350 to 1750 nm with a built-in He-Ne wavelength reference, designed for CW laser diode and LED coherence and spectral evaluation in optical storage and fiber-optic applications. LD and LED coherence-length measurement (CW sources); optical data-storage laser evaluation; fiber-optic gyroscope source characterization; wideband optical spectrum analysis from visible through near-IR; GPIB-automated spectral measurements without external wavelength calibration sources. The Q8344A provides a Michelson-interferometer Fourier-transform optical spectrum analyzer covering 350 to 1750 nm with a built-in He-Ne wavelength reference, designed for CW laser diode and LED coherence and spectral evaluation in optical storage and fiber-optic applications. LD and LED coherence-length measurement (CW sources); optical data-storage laser evaluation; fiber-optic gyroscope source characterization; wideband optical spectrum analysis from visible through near-IR; GPIB-automated spectral measurements without external wavelength calibration sources.



MODEL

**Advantest
Q8344A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8344A

LISTING

<https://aumictechlabs.com/products/q8344a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest Q8344A is a benchtop optical spectrum analyzer spanning 350 nm to 1750 nm, engineered around Fourier spectrum analysis using a Michelson interferometer. This architecture enables direct optical coherence length measurements - a capability absent in monochromator-based instruments. The analyzer delivers wavelength resolution to 0.05 nm at 0.85 μm , wavelength accuracy of ± 0.1 nm, and measurement speeds of approximately 1.5 seconds per sweep across any analysis span. Dynamic range reaches 80 dB with input sensitivity from -70 dBm to +10 dBm across the 0.7 μm to 1.6 μm band. A built-in He-Ne laser reference ensures long-term measurement repeatability without external calibration.

Technical Specifications

Wavelength Range:	350 nm to 1750 nm
Measurement Principle:	Fourier spectrum analysis; Michelson interferometer
Wavelength Resolution:	0.05 nm maximum (at 0.85 μm); 0.1 nm (at 1.31 μm)
Wavelength Accuracy:	± 0.1 nm (at 1.3 μm , vacuum reference)
Measurement Speed:	~1.5 seconds per sweep
Span Range:	0.1 nm to 140 nm/DIV
Input Sensitivity:	-70 dBm to +10 dBm (0.7 μm to 1.6 μm)
Level Accuracy:	± 2.0 dB or less (at 0.85 μm and 1.31 μm)
Linearity:	± 1.0 dB/25 dB or less; ± 0.5 dB/10 dB or less
Dynamic Range:	80 dB
Reference:	Built-in He-Ne laser

Key Features

- Direct coherence length measurement capability via Michelson interferometer architecture
- Fiber input: 50 μm standard; optional 200 μm available
- Manual transportation lock on interferometer mechanism
- GP-IB interface for instrument control
- Optional built-in printer (Option 01)
- Horizontal orientation required; 10 cm minimum clearance around air vents

Typical Applications

- Laser diode characterization in optical data storage systems
- Fiber optic gyroscope laser evaluation
- LED and photoemitting element analysis
- Telecommunications and data communications component testing
- Optical device manufacturing quality assurance

Compatibility & Integration

Benchtop form factor with GP-IB interface support. Operates in controlled environments free from thermal transients, mechanical shock, vibration, moisture, dust, and external magnetic fields.

Features & description

From manufacturer datasheet

Features

- Michelson interferometer / Fourier spectrum analysis
- Wavelength range 350 to 1750 nm (0.35 to 1.75 μm)
- Built-in He-Ne laser wavelength reference
- Wavelength accuracy ± 0.1 nm (at 1.3 μm class)
- Resolution approximately 0.05 nm at 850 nm; 0.1 nm at 1310 nm class
- Level range -70 to $+10$ dBm (700–1600 nm); -60 to $+10$ dBm (450–1700 nm); -45 to $+10$ dBm (350–1750 nm)
- Level accuracy ± 2.0 dB (850/1310 nm)
- Sweep time 1.5 s or less (specified spans)
- Direct coherence measurement capability
- GPIB interface; optional built-in printer; optional 200 μm fiber input

Q8344A Characteristics / Specifications

PARAMETER	VALUE
Model	Q8344A
Manufacturer	Advantest
Instrument Type	Optical Spectrum Analyzer (Michelson / FT)
Wavelength Range	350 to 1750 nm
Wavelength Accuracy	±0.1 nm
Level Range	−70 to +10 dBm (700–1600 nm)
Level Accuracy	±2.0 dB (850/1310 nm)
Sweep Time	≤1.5 s (specified conditions)
Input Fiber	9/125 μm and 50/125 μm
Remote Interface	GPiB
Alias	Q8344A Standard Operating Conditions Operate with CW optical sources only for coherence measurements. Allow He-Ne reference and interferometer path to stabilize. Use appropriate fiber input (9/125 or 50/125 μm; Option 10 for 200 μm).

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
Model	Q8344A
Manufacturer	Advantest
Instrument Type	Optical Spectrum Analyzer (Michelson / FT)
Wavelength Range	350 to 1750 nm
Wavelength Accuracy	±0.1 nm
Level Range	-70 to +10 dBm (700-1600 nm)
Level Accuracy	±2.0 dB (850/1310 nm)
Sweep Time	≤1.5 s (specified conditions)
Input Fiber	9/125 μm and 50/125 μm
Remote Interface	GPIO
Alias	Q8344A
Standard Operating Conditions	
Operate with CW optical sources only for coherence measurements. Allow He-Ne reference and interferometer path to stabilize. Use appropriate fiber input (9/125 or 50/125 μm; Option 10 for 200 μm).	
Operational Notes	
Q8344A is CW-oriented Michelson OSA-distinct from diffraction-grating monochromator OSAs. Alias Q8344A.	

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.