

ADVANTEST

Q8341

The Advantest Q8341 is a high-performance Optical Spectrum Analyzer that utilizes a Michelson interferometer and Fourier spectroscopy. Optimized for a wavelength range of 350 to 1000 nm, it provides an outstanding resolution of up to 1 pm or 1 GHz in frequency mode, making it an excellent instrument for the research and analysis of blue-violet laser diodes and next-generation optical pick-ups. With a rapid 0.5 s sweep speed, built-in HeNe laser calibration source, and dedicated coherence length measurement up to 40 mm, it delivers precise and stable optical measurements in a compact 15 kg package.

SPECIFICATIONS

General

Interfaces	GPIO, VGA output, Centronics Parallel, Keyboard, 3.5-inch FDD
Display	6.5-inch color TFT LCD
Built-in Storage	3.5-inch FDD (2HD/2DD)

Physical

Power Supply	100 to 240 V AC, 50/60 Hz, 150 VA or less
Operating Temperature	10 to 40 °C °C
Dimensions (W×H×D)	424 (W) × 177 (H) × 450 (D) mm mm
Weight	15 kg kg

Wavelength Specifications

Wavelength Range	350 to 1000 nm
Maximum Resolution	0.01 nm
Wavelength Measurement Accuracy	10 pm (0.01 nm)

Measurement Speed and Sweep

Sweep Time (Minimum)	0.5 s
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Optical Interfaces

Internal Calibration Light Source Type	HeNe laser
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Analysis and Application Software

Coherence Length Measurement Range	Up to 40 mm
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Optical Input

Optical Connector Type	FC/PC
Maximum Safe Input Power	+10 dBm

Environmental

Operating Humidity Range	85% RH or less (no condensation)
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Optical Measurement

Internal Reference Laser	He-Ne laser (632.8 nm)
Optical Input Level Range	-50 dBm to +10 dBm (at 633 nm / 850 nm)

Compliance

Laser Safety Class	Class 1 (IEC60825-1)
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TECHNOLOGY

Michelson Interferometer / Fourier Spectroscopy

APPLICATIONS

Laser Diode Analysis & Coherence Length Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.