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Data Sheet
August 3, 2026

ANDO

Ando AQ6317 600-1750nm Optical Spectrum Analyzer

Ando AQ6317 600-1750nm Optical Spectrum Analyzer The AQ6317 providesahigh-resolution optical spectrum analyzer covering 600 to 1750 nm for WDM system and component evaluation, with ±0.05 nm wavelength accuracy in the 1550 nm band, 0.015 nm-class resolution, and analysis functions for WDM, EDFA, LD, LED, and FBG devices. 50 GHz WDM signal spectrum analysis; EDFA gain/NF evaluation; optical MUX/DEMUX characterization with AQ4320 TLS synchronous sweep; DFB/FP-LD and LED spectral analysis; high-power optical amplifier output measurement to +20 dBm. The AQ6317 providesahigh-resolution optical spectrum analyzer covering 600 to 1750 nm for WDM system and component evaluation, with ±0.05 nm wavelength accuracy in the 1550 nm band, 0.015 nm-class resolution, and analysis functions for WDM, EDFA, LD, LED, and FBG devices. 50 GHz WDM signal spectrum analysis; EDFA gain/NF evaluation; optical MUX/DEMUX characterization with AQ4320 TLS synchronous sweep; DFB/FP-LD and LED spectral analysis; high-power optical amplifier output measurement to +20 dBm.

MODEL Ando AQ6317	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU AQ6317	LISTING https://aumictechlabs.com/products/aq6317-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

Ando AQ6317,"This optical spectrum analyzer offers high-resolution spectral analysis across a wavelength range of 600 to 1750 nm. telecom, photonics, and R&D applications, the AQ6317 provides a powerful platform for evaluating optical components and systems. It features a monochromator-based design with a diffraction grating, allowing for narrow resolution bandwidths and excellent wavelength accuracy. This enables precise characterization of laser sources, fiber amplifiers, WDM systems, and passive components. The analyzer supports various measurement functions including peak search, marker readout, and signal-to-noise ratio analysis. With high dynamic range and low stray light, it ensures accurate detection of weak signals in the presence of strong nearby signals. The user interface is intuitive, with a bright display and comprehensive menu system for quick setup and measurement. Ethernet and GP-IB interfaces allow remote control and integration into automated test systems. Engineers use the AQ6317 for tasks such as monitoring ASE noise, evaluating transmission spectra, and verifying component specifications. Its versatility, measurement precision, and solid construction make it a staple in optical test environments, especially in labs and production lines focused on fiber optic communication technologies and component manufacturing."Aumictech – Ando AQ6317 Optical Spectrum Analyzer 600–1750 nm SpecificationsOptical Performance Wavelength range: 600 to 1750 nm Span: 0.2 nm to full range Wavelength accuracy: ±0.02 nm (typical in C-band), ±0.1 nm across full range Wavelength resolution: 0.02 nm minimum Wavelength repeatability: ±0.005 nm Sampling resolution: 0.001 nm minimumLevel / Power Measurement Sensitivity (typical): −85 dBm (1000–1600 nm) −70 dBm (600–1000 nm) Maximum safe input power: +20 dBm Power accuracy: ±0.3 dB (−20 dBm input at 1550 nm) Linearity: ±0.05 dB (−50 to +10 dBm) Flatness: ±0.2 dB across 600–1750 nm Polarization dependence: ≤ ±0.05 dBDynamic Range & Stray Light Dynamic range (typical): Up to 75 dB (0.05 nm RBW, ±1 nm) Up to 55 dB (0.02 nm RBW, ±0.2 nm) Stray light suppression ratio: 75 dB typical Level range: +20 to −85 dBmSweep & Speed Sweep times (typical, 100 nm span): FAST mode: ~0.5 s NORMAL mode: ~2 s HIGH SENS mode: 30–60 s Sweep modes: single, repeat, and continuousFiber & Optical Interfaces Input fiber types: Single-mode and multimode (9/125 µm, 50/62.5/125 µm) Optical input connectors: FC, SC, ST (interchangeable adapters) Optical return loss: >30 dB typical Calibration source: built-in wavelength referenceInterfaces & Control Remote control: GP-IB (IEEE-488), RS-232C standard Optional interface: Ethernet (for PC control and automation) Command compatibility: SCPI compliantDisplay & Storage Display: 9-inch color CRT (vector style) Trace functions: multiple trace storage, subtraction, Max/Min hold Data output: GP-IB/RS-232C to external PC Printer support: external GPIB printer compatiblePhysical & Power Dimensions: approx. 425 × 200 × 450 mm (W×H×D) Weight: approx. 18–20 kg Power supply: 100–240 VAC, 50/60 Hz, ~150 VA Operating environment: Performance guaranteed: +18 to +28 °C Operating: +5 to +35 °C Storage: −10 to +50 °C Humidity: ≤80 %RH non-condensing Warm-up time: ~1 hour Why Choose Aumictech for the Ando AQ6317?The Ando AQ6317 Optical Spectrum Analyzer is a versatile instrument covering 600–1750 nm, making it a go-to tool for telecommunications, photonics R&D, and optical device testing. Its balance of sensitivity, accuracy, and dynamic range makes it one of the most popular legacy OSAs in the field.At Aumictech, we offer sales, repair, and NIST-traceable calibration services for the Ando AQ6317. Our team ensures this analyzer continues to meet performance requirements, extending the life of legacy test equipment while supporting modern optical research and production testing.

Features & description

From manufacturer datasheet

Features

• Wavelength range 600 to 1750 nm • Wavelength accuracy ±0.05 nm (1510–1580 nm, after built-in reference calibration); ±0.5 nm (full range) • Wavelength linearity ±0.01 nm (1510–1580 nm) • Max resolution 0.015 nm or better; settings 0.01 to 2.0 nm • Level range −90 to +20 dBm (1200–1650 nm, HIGH3); −80 to +20 dBm (600–1200 nm) • Level accuracy ±0.3 dB; PDL ±0.05 dB (1550 nm) • Dynamic range 60 dB (±0.2 nm) / 70 dB (±0.4 nm) at 1523 nm, 0.01 nm resolution • Sweep approximately 500 ms (100 nm span class) • Built-in reference wavelength calibration; GPIB; 9.4-inch color LCD

AQ6317 Characteristics / Specifications

PARAMETER	VALUE
Model	AQ6317
Manufacturer	Ando Electric / Yokogawa
Instrument Type	Optical Spectrum Analyzer
Wavelength Range	600 to 1750 nm
Wavelength Accuracy	±0.05 nm (1510–1580 nm); ±0.5 nm (600–1750 nm)
Max Resolution	0.015 nm or better
Level Range	−90 to +20 dBm (1200–1650 nm, HIGH3)
Level Accuracy	±0.3 dB (1310/1550 nm)
Dynamic Range	60 dB / 70 dB (1523 nm, ±0.2 / ±0.4 nm, 0.01 nm res)
Max Input Power	+20 dBm
Related Models	AQ6317B, AQ6317C (improved C/L-band accuracy)
Alias	AQ6317 Standard Operating Conditions Warm up approximately 2 hours; calibrate with built-in reference before precision WDM work. Use 10/125 µm SM fiber for accuracy specs. Observe +20 dBm maximum input. Operational Notes
Base AQ6317 precedes AQ6317B/C with tighter C/L accuracy	confirm faceplate without B/C suffix. Alias AQ6317.

AQ6317 Specifications

PARAMETER	VALUE
Key Features	- Wavelength range 600 to 1750 nm
Technical Specifications	Model: AQ6317
Operational Notes	Base AQ6317 precedes AQ6317B/C with tighter C/L accuracy—confirm faceplate without B/C suffix. Alias AQ6317.

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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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

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