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Data Sheet

August 3, 2026

ANDO

Ando AQ6317C 600-1750nm Optical Spectrum Analyzer

Ando AQ6317C 600-1750nm Optical Spectrum Analyzer The AQ6317C provides a high-resolution optical spectrum analyzer covering 600 to 1750 nm with improved C- and L-band wavelength accuracy (± 0.02 nm / ± 0.04 nm class) over the base AQ6317, for precision WDM and optical-device spectral analysis. High-precision C/L-band WDM channel and device evaluation; EDFA and passive optical component characterization; DFB-LD SMSR and spectral-width analysis; laboratory and production OSA work requiring AQ6317C-class wavelength accuracy. The AQ6317C provides a high-resolution optical spectrum analyzer covering 600 to 1750 nm with improved C- and L-band wavelength accuracy (± 0.02 nm / ± 0.04 nm class) over the base AQ6317, for precision WDM and optical-device spectral analysis. High-precision C/L-band WDM channel and device evaluation; EDFA and passive optical component characterization; DFB-LD SMSR and spectral-width analysis; laboratory and production OSA work requiring AQ6317C-class wavelength accuracy.



MODEL

Ando AQ6317C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6317C

LISTING

<https://aumictechlabs.com/products/aq6317c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

Ando AQ6317C,"This optical spectrum analyzer works with high-resolution spectral measurements in the 600 to 1750 nm wavelength range, making it suitable for characterizing components in fiber optic communication systems. The unit has accurate measurement of wavelength, power, and spectral width, helping engineers evaluate transmission quality, filter characteristics, and amplifier performance. With a fast sweep speed and high dynamic range, it captures detailed spectral profiles, even for weak signals or closely spaced channels. The large color display and intuitive interface facilitate easy analysis of complex optical signals. Engineers can store and recall measurement settings, compare spectral traces, and use built-in markers for wavelength and amplitude evaluations. Its low polarization dependence ensures stable results under varying conditions. The analyzer supports single-mode and multi-mode measurements, making it versatile for different fiber types. Data can be exported via GPIB or floppy disk for documentation and post-processing. Built to withstand rigorous lab and manufacturing environments, the instrument is housed in a durable enclosure and provides long-term measurement stability. With features such as automatic peak detection and noise floor tracking, it simplifies optical component testing and system integration. The analyzer is ideal for tasks involving DWDM systems, passive optical networks, and broadband light sources."

Aumictech – Ando AQ6317C Optical Spectrum Analyzer 600–1750 nm Specifications

Optical Performance
Wavelength range: 600 to 1750 nm Span: 0.2 nm to full range Wavelength accuracy: ± 0.01 nm (1520–1580 nm, calibrated with internal reference) ± 0.02 nm (1580–1620 nm) ± 0.1 nm across full range Wavelength linearity: ± 0.01 nm (1520–1580 nm), ± 0.02 nm (1580–1620 nm) Wavelength repeatability: ± 0.002 nm (C-band, 1 minute) Resolution bandwidth settings: 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0 nm Resolution accuracy: ± 5 % (for ≥ 0.05 nm RBW, with resolution correction ON) Minimum sampling resolution: 0.001 nm Level / Power Measurement Level range: -90 to $+20$ dBm (1200–1650 nm, HIGH3 sensitivity) -80 to $+20$ dBm (1000–1200 nm, HIGH3 sensitivity) -60 to $+20$ dBm (600–1000 nm, HIGH3 sensitivity) Level accuracy: ± 0.2 dB (1310/1550 nm, -30 dBm input, HIGH1–3) Level linearity: ± 0.03 dB (-50 to $+10$ dBm) Flatness: ± 0.1 dB (1520–1580 nm), ± 0.2 dB across full 600–1750 nm Polarization dependence: $\leq \pm 0.02$ dB Dynamic Range & Stray Light Dynamic range (typical): 78 dB (± 0.4 nm, 0.02 nm RBW) 60 dB (± 0.2 nm, 0.02 nm RBW) Stray light suppression ratio: 78–80 dB typical Overall level range: $+20$ to -90 dBm Sweep & Speed Sweep time (100 nm span, typical): FAST mode: ~ 0.2 – 0.5 s NORMAL mode: ~ 1 – 2 s HIGH SENS mode: ~ 20 – 60 s Sweep modes: single, repeat, and continuous Display, Storage & Interfaces Display: 9.4-inch color LCD, 640×480 resolution Memory: up to 32 traces and 20 user programs internally Trace functions: subtraction, Max/Min hold, overlay, compare Interfaces: GP-IB, RS-232C, VGA output, trigger in/out, analog output Printer support: external GPIB printer Physical & Power Dimensions (W×H×D): approx. 425 × 222 × 450 mm Weight: approx. 30 kg Power supply: AC 100–240 V, 50/60 Hz Operating environment: $+5$ to $+40$ °C; ≤ 80 % RH (non-condensing) Warm-up time: ~ 1 hour Comparison: AQ6317C vs Other AQ6317 Models AQ6317 vs AQ6317B: The B model improved wavelength accuracy to ± 0.02 nm in C-band and added faster sweep speeds. AQ6317C vs AQ6317B: The C version further enhanced accuracy to ± 0.01 nm in C-band, improved repeatability to ± 0.002 nm, and expanded analysis functions, making it more suitable for high-precision DWDM, filter, and component testing. AQ6317C vs AQ6370D: While the AQ6370D is a newer Yokogawa platform with updated UI and extended calibration features, the AQ6317C remains a

reliable legacy analyzer for labs that need sub-picometer resolution and wide spectral coverage at a lower total cost. Why Choose Aumictech for the Ando AQ6317C?

Features & description

From manufacturer datasheet

Features

- Wavelength range 600 to 1750 nm
- Wavelength accuracy ± 0.02 nm (1520–1580 nm); ± 0.04 nm (1580–1620 nm); ± 0.1 nm full-range class (after calibration)
- Wavelength linearity ± 0.01 nm (1520–1580 nm); ± 0.02 nm (1450–1520 / 1580–1620 nm)
- Resolution settings 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0 nm
- Dynamic range 60 dB (± 0.2 nm) / 70 dB (± 0.4 nm) at 1523 nm, 0.01 nm resolution
- Level accuracy ± 0.3 dB; level linearity ± 0.05 dB (–50 to +10 dBm)
- PDL ± 0.05 dB (1550/1600 nm)
- Sweep approximately 500 ms
- Built-in reference calibration; GPIB

AQ6317C Characteristics / Specifications

PARAMETER	VALUE
Model	AQ6317C
Manufacturer	Ando Electric / Yokogawa
Instrument Type	Optical Spectrum Analyzer
Wavelength Range	600 to 1750 nm
Wavelength Accuracy	±0.02 nm (1520–1580 nm); ±0.04 nm (1580–1620 nm)
Wavelength Linearity	±0.01 nm (1520–1580 nm)
Dynamic Range	60 dB / 70 dB (1523 nm, ±0.2 / ±0.4 nm, 0.01 nm)
Level Accuracy	±0.3 dB
Level Linearity	±0.05 dB
Related Models	AQ6317 (base); AQ6317B
Alias	AQ6317C Standard Operating Conditions Calibrate with built-in reference light source before C/L-band absolute wavelength work. Use SM fiber and observe max input power for the monochromator path. Warm up per Ando/Yokogawa procedure.

AQ6317C Specifications

PARAMETER	VALUE
Key Features	- Wavelength range 600 to 1750 nm
Technical Specifications	Model: AQ6317C
Operational Notes	AQ6317C improves full-range and C/L accuracy versus AQ6317/AQ6317B—confirm C suffix on faceplate. Alias AQ6317C.

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	AQ6317C
Manufacturer	Ando Electric / Yokogawa
Instrument Type	Optical Spectrum Analyzer
Wavelength Range	600 to 1750 nm
Wavelength Accuracy	±0.02 nm (1520–1580 nm); ±0.04 nm (1580–1620 nm)
Wavelength Linearity	±0.01 nm (1520–1580 nm)
Dynamic Range	60 dB / 70 dB (1523 nm, ±0.2 / ±0.4 nm, 0.01 nm)
Level Accuracy	±0.3 dB
Level Linearity	±0.05 dB
Related Models	AQ6317 (base); AQ6317B
Alias	AQ6317C
Standard Operating Conditions	
Calibrate with built-in reference light source before C/L-band absolute wavelength work. Use SM fiber and observe max input power for the monochromator path. Warm up per Ando/Yokogawa procedure.	
Operational Notes	
AQ6317C improves full-range and C/L accuracy versus AQ6317/AQ6317B-confirmCsuffix on faceplate. Alias AQ6317C.	

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
NAICS 423690 · 811210 · 541380
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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.