

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ANDO

Ando AQ6317B 600-1750nm Optical Spectrum Analyzer

The Ando AQ6317B is a diffraction-grating optical spectrum analyzer covering approximately 600 nm to 1750 nm. OEM Ando/Yokogawa OSA documentation lists high wavelength accuracy, fine resolution bandwidth settings, and wide dynamic range for DWDM and optical component characterization. DWDM channel analysis, laser diode spectra, fiber amplifier ASE measurements, and optical component qualification. Instrument Type: Diffraction grating optical spectrum analyzer Wavelength Accuracy Class: High accuracy OSA class Operating Temperature Class: Standard lab Applications Class: DWDM and laser characterization Calibration: Wavelength and level calibration support From Ando AQ6317B OSA product documentation and AQ6317 family specifications. Confirm exact RBW set and dynamic-range deltas on the unit datasheet.



MODEL

Ando AQ6317B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6317B

LISTING

<https://aumictechlabs.com/products/aq6317b-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Ando AQ6317B 600-1750nm Optical Spectrum Analyzer, Designed for high-resolution optical analysis, this spectrum analyzer supports measurements in the 600 to 1750 nm range. It has excellent wavelength accuracy, low polarization dependence, and advanced functions like marker

tracking and peak hold. Ideal for DWDM systems, laser testing, and optical device R&D.

Aumictech – Ando AQ6317B Optical Spectrum Analyzer 600–1750 nm Specifications

Optical Performance
Wavelength range: 600 to 1750 nm
Wavelength accuracy: ± 0.02 nm (1520–1580 nm, calibrated with internal reference) ± 0.04 nm (1580–1620 nm) ± 0.5 nm across full 600–1750 nm span
Wavelength linearity: ± 0.01 nm (1520–1580 nm), ± 0.02 nm (1580–1620 nm)
Wavelength repeatability: ± 0.005 nm (1 min)
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 settings, 1300–1650 nm, 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: ± 0.3 dB (1310/1550 nm, -30 dBm input, HIGH1–3)
Level linearity: ± 0.05 dB (-50 to $+10$ dBm, HIGH1–3)
Flatness: ± 0.1 dB (1520–1580 nm), ± 0.2 dB (1580–1620 nm)
Polarization dependence: $\leq \pm 0.05$ dB

Dynamic Range & Stray Light
Dynamic range (typical): ~ 70 dB (± 0.4 nm at 0.01 nm resolution) ~ 60 dB (± 0.2 nm at 0.01 nm resolution)
Stray light suppression ratio: ~ 75 dB typical
Level range: $+20$ to -90 dBm

Sweep & Speed
Sweep time (100 nm span, typical): ~ 0.5 s in FAST mode, ~ 2 s in NORMAL mode, ~ 30 – 60 s in HIGH SENS mode
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 storable internally
Trace functions: subtraction, Max/Min hold, overlay comparison
Interfaces: GPIB (2 ports), RS-232C, VGA output, trigger in/out, analog output
Printer support: external GPIB printer

Physical & Power Dimensions (W×H×D): approx. $425 \times 222 \times 450$ 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: AQ6317B vs Similar Models
Versus AQ6317 (non-B): The AQ6317B improves wavelength accuracy (± 0.02 nm in C-band vs $\sim \pm 0.05$ nm in older versions), adds faster sweep times, and expands analysis functions such as optical filter testing and multi-channel noise figure evaluation.

Versus AQ6370C/D: Yokogawa AQ6370 series analyzers are newer successors with enhanced resolution (down to 0.02 nm standard, ± 0.01 nm accuracy in models) and higher dynamic range in some configurations. However, the AQ6317B remains a reliable and cost-effective solution with strong performance across the 600–1750 nm range.

Why Choose Aumictech for the Ando AQ6317B?
The Ando AQ6317B Optical Spectrum Analyzer is a trusted instrument for telecom, photonics, optical component testing, and WDM system analysis. Its high resolution, strong sensitivity, and solid dynamic range make it an workhorse in R&D and production labs.

At Aumictech, we provide:
NIST-traceable calibration for precise wavelength and power accuracy
Repair and service support to extend instrument life
Upgrade guidance to help customers evaluate when to keep legacy analyzers like the AQ6317B or transition to newer models

Features & description

From manufacturer datasheet

Polarization Dependence Class: Specified PDL related uncertainty class

Wavelength Repeatability Class: High repeatability tuning Level Linearity Class: Specified linearity

Operating Temperature Class: Standard lab Series Family: Ando AQ6317

AQ6317B Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range	600 nm to 1750 nm
Instrument Type	Diffraction grating optical spectrum analyzer
Wavelength Accuracy Class	High accuracy OSA class
Resolution Bandwidth Class	Multiple fine RBW settings down to 0.01 nm class family
Dynamic Range Class	High dynamic range close in and wide span
Level Sensitivity Class	High sensitivity photodetector path
Level Accuracy Class	Calibrated optical level accuracy
Sweep Modes	Continuous and single sweep
Markers	Multi marker with wavelength level delta
Analysis Functions	SMSR WDM OSNR class analysis
Input Connector Class	Fiber optic input with adapter
Remote Interface	GPIB
Display	Color OSA display class
Form Factor	Benchtop OSA
Polarization Dependence Class	Specified PDL related uncertainty class
Wavelength Repeatability Class	High repeatability tuning
Level Linearity Class	Specified linearity
Operating Temperature Class	Standard lab
Series Family	Ando AQ6317
Applications Class	DWDM and laser characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class
Bandwidth	Class: Multiple fine RBW settings down to 0.01 nm class family
Wavelength repeatability	Class: High repeatability tuning
Operating temperature	Class: Standard lab

AQ6317B Specifications

PARAMETER	VALUE
Ando AQ6317B Optical Spectrum Analyzer	Overview
Key Features	Wide 600 to 1750 nm class coverage
Technical Specifications	Wavelength Range: 600 nm to 1750 nm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
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Series Family	Ando AQ6317
Applications Class	DWDM and laser characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class Notes From Ando AQ6317B OSA product documentation and AQ6317 family specifications. Confirm exact RBW set and dynamic-range deltas on the unit datasheet.

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

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.