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Data Sheet

August 14, 2026

ANDO

Ando AQ6310 400-1750nm Optical Spectrum Analyzer

Ando AQ6310 Optical Spectrum Analyzer 400 to 1750 nm The Ando AQ6310 is the predecessor general-purpose OSA covering 400 to 1750 nm for light-source spectra and optical component wavelength characteristics. Published Ando AQ6310 specifications list level range minus 70 to plus 10 dBm per resolution, 0.1 to 5 nm resolution class, and GP-IB with built-in printer functions aligned to the AQ6310 family. Legacy optical spectrum measurements on LD/LED sources, fiber and filter characterization, and service of AQ6310-series instruments. The Ando AQ6310 is the predecessor general-purpose OSA covering 400 to 1750 nm for light-source spectra and optical component wavelength characteristics. Published Ando AQ6310 specifications list level range minus 70 to plus 10 dBm per resolution, 0.1 to 5 nm resolution class, and GP-IB with built-in printer functions aligned to the AQ6310 family. Legacy optical spectrum measurements on LD/LED sources, fiber and filter characterization, and service of AQ6310-series instruments. Measurement Wavelength Range: 400 to 1750 nm



MODEL

Ando AQ6310

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ6310

LISTING

<https://aumictechlabs.com/products/aq6310-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ando AQ6310 optical spectrum analyzer works with accurate measurement and analysis of optical spectra within the 400 to 1750 nm range. It features high wavelength resolution, enabling

detailed spectral analysis of optical signals. Its applications include measuring the spectral characteristics of lasers, LEDs, optical fibers, and other optical components. The analyzer is also used in optical communication systems to evaluate signal quality and performance.

Aumictech – Ando AQ6310 Optical Spectrum Analyzer 400–1750 nm Specifications

Optical Performance
Wavelength range: 400 to 1750 nm Span: 0.2 nm to full range Wavelength accuracy: ± 0.05 nm (typical in C-band), ± 0.2 nm across full range Wavelength resolution: 0.05 nm minimum Wavelength repeatability: ± 0.01 nm Sampling resolution: 0.001 nm minimum

Level / Power Measurement Sensitivity (typical): -80 dBm (1000–1600 nm) -70 dBm (400–1000 nm) Maximum safe input: $+20$ dBm Power accuracy: ± 0.3 dB (-20 dBm input, 1550 nm) Linearity: ± 0.05 dB (-50 to $+10$ dBm) Flatness: ± 0.2 dB across 400–1750 nm Polarization dependence: $\leq \pm 0.05$ dB

Dynamic Range & Stray Light Dynamic range (typical): Up to 70 dB (0.05 nm RBW, ± 1 nm) Up to 55 dB (0.02 nm RBW, ± 0.2 nm) Stray light suppression ratio: 70 dB typical Level range: $+20$ to -80 dBm

Sweep & Speed Sweep times (typical, 100 nm span): FAST mode: 0.5–1 s NORMAL mode: 2 s HIGH SENS mode: 30–60 s Sweep modes: single, repeat, and continuous

Fiber & Optical Interfaces Input fiber types: Single-mode and multimode (9/125 μm , 50/62.5/125 μm) Optical input connectors: FC, SC, ST (via exchangeable adapters) Optical return loss: >30 dB typical Calibration source: built-in reference light source for wavelength alignment

Interfaces & Control Remote control: GP-IB (IEEE-488), RS-232C standard Optional interface: Ethernet with remote PC software support SCPI command set for automation and test integration

Display & Storage Display: 9-inch color CRT (vector style) Trace functions: multiple trace storage, Max/Min hold, subtraction Data output: GP-IB or RS-232C to external PC Printer compatibility: external GPIB printer supported

Physical & Power Dimensions: approx. 425 $\times$ 200 $\times$ 450 mm (W $\times$ H $\times$ D) Weight: approx. 18–20 kg Power supply: 100–240 VAC, 50/60 Hz, ~ 150 VA Operating environment: Guaranteed: $+18$ to $+28$ $^{\circ}\text{C}$ Operating: $+5$ to $+35$ $^{\circ}\text{C}$ Storage: -10 to $+50$ $^{\circ}\text{C}$ Humidity: ≤ 80 %RH non-condensing Warm-up time: ~ 1 hour

Why Choose Aumictech for the Ando AQ6310? The Ando AQ6310 Optical Spectrum Analyzer covers a wide wavelength range from 400 to 1750 nm, making it a versatile choice for optical component testing, fiber R&D, and broadband source characterization. With strong dynamic range, wide sensitivity, and solid measurement modes, it is a trusted workhorse in many labs. At Aumictech, we provide sales, repair, and NIST-traceable calibration services for the Ando AQ6310. Our expertise ensures this analyzer continues to perform to manufacturer specifications, giving researchers and engineers the accuracy and reliability needed for demanding optical measurements.

Features & description

From manufacturer datasheet

Built-in printer function

Analog and video outputs FC optical input Technical Specifications Measurement Wavelength Range: 400 to 1750 nm Measurement Level Range: minus 70 to plus 10 dBm per resolution Level Scale: 0.2 to 10 dB/div and LINEAR Wavelength Sweep Width: 0.0 to 150 nm/div Resolution Class: 0.1 to 5 nm Optical Input Connector: FC type GP-IB: provided as standard Analog Output: 0 to 5 V class BNC Video Output: composite video BNC class Printer Function: high-speed printer incorporated X-Y Plotter Control: HP-GL class Form Factor: benchtop OSA Family Relation: AQ6310 / AQ6310C series Sweep Capability: wavelength sweep with multi-div span class Display Functions Class: peak search averaging labeling class Mass Class: approximately 30 kg class per family literature Dimensions Class: approximately 266 x 426 x 450 mm class per family literature Measurement Functions: automatic measurement peak search half-width search Data Functions: subtraction averaging labeling normalization Display Modes: dominant waveform and three-dimensional display Wavelength Calibration Function: yes Data Measurement Condition Memory: yes Sweep Time Span 200 nm Or Less Class: 1 s or less class per family Sweep Time Span 1000 nm Or Less Class: 2 s or less class per family

AQ6310 Characteristics / Specifications

PARAMETER	VALUE
Measurement Wavelength Range	400 to 1750 nm
Measurement Level Range	minus 70 to plus 10 dBm per resolution
Level Scale	0.2 to 10 dB/div and LINEAR
Wavelength Sweep Width	0.0 to 150 nm/div
Resolution Class	0.1 to 5 nm
Optical Input Connector	FC type
Analog Output	0 to 5 V class BNC
Video Output	composite video BNC class
Printer Function	high-speed printer incorporated
Form Factor	benchtop OSA
Family Relation	AQ6310 / AQ6310C series
Sweep Capability	wavelength sweep with multi-div span class
Display Functions Class	peak search averaging labeling class
Mass Class	approximately 30 kg class per family literature
Dimensions Class	approximately 266 × 426 × 450 mm class per family literature
Measurement Functions	automatic measurement peak search half-width search
Data Functions	subtraction averaging labeling normalization
Display Modes	dominant waveform and three-dimensional display
Wavelength Calibration Function	yes
Data Measurement Condition Memory	yes
Sweep Time Span 200 nm Or Less Class	1 s or less class per family
Sweep Time Span 1000 nm Or Less Class	2 s or less class per family
Wavelength range	400 to 1750 nm

AQ6310 Specifications

PARAMETER	VALUE
Ando AQ6310 Optical Spectrum Analyzer 400 to 1750 nm	Overview
Applications	Legacy optical spectrum measurements on LD/LED sources, fiber and filter characterization, and service of AQ6310-series instruments.
Key Features	Wide 400 to 1750 nm coverage
Technical Specifications	Measurement Wavelength Range: 400 to 1750 nm

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.

characteristics. Published Ando AQ6310 specifications list level range minus 70 to plus 10 dBm per resolution, 0.1 to 5 nm resolution class, and GP-IB with built-in printer functions aligned to the AQ6310 family.

Applications
Legacy optical spectrum measurements on LD/LED sources, fiber and filter characterization, and service of AQ6310-series instruments.

Key Features
Wide 400 to 1750 nm coverage
GP-IB standard
Built-in printer function
Analog and video outputs
FC optical input

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Measurement Wavelength Range	400 to 1750 nm
Measurement Level Range	minus 70 to plus 10 dBm per resolution
Level Scale	0.2 to 10 dB/div and LINEAR
Wavelength Sweep Width	0.0 to 150 nm/div
Resolution Class	0.1 to 5 nm
Optical Input Connector	FC type

GP-IB: provided as standard

Specifications

PARAMETER	VALUE
Analog Output	0 to 5 V class BNC
Video Output	composite video BNC class
Printer Function	high-speed printer incorporated

X-Y Plotter Control: HP-GL class

Specifications

PARAMETER	VALUE
Form Factor	benchtop OSA
Family Relation	AQ6310 / AQ6310C series
Sweep Capability	wavelength sweep with multi-div span class

PARAMETER	VALUE
Display Functions Class	peak search averaging labeling class
Mass Class	approximately 30 kg class per family literature
Dimensions Class	approximately 266 x 426 x 450 mm class per family literature

Specifications

PARAMETER	VALUE
Measurement Functions	automatic measurement peak search half-width search
Data Functions	subtraction averaging labeling normalization
Display Modes	dominant waveform and three-dimensional display
Wavelength Calibration Function	yes
Data Measurement Condition Memory	yes

Sweep Time Span 200 nm Or Less Class: 1 s or less class per family
Sweep Time Span 1000 nm Or Less Class: 2 s or less class per family

Notes

From published Ando AQ6310 specification summaries. Prefer AQ6310C documentation when the faceplate shows Crevision; confirm exact resolution and level tables on the installed unit manual.

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.