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Data Sheet

August 14, 2026

ANDO

Ando AQ4321D 1520-1620nm Tunable Laser Source

The Ando AQ4321D is an enhanced AQ4321-family tunable laser source with improved tuning and power control characteristics versus earlier A-suffix units. OEM TLS family docs position it for precision swept-wavelength optical tests. Precision optical component sweeps, DWDM source emulation, and automated wavelength-dependent loss measurements. Instrument Family: Ando AQ4321D tunable laser source Output Type: Tunable continuous wave laser Precision optical component sweeps, DWDM source emulation, and automated wavelength-dependent loss measurements. Instrument Family: Ando AQ4321D tunable laser source Output Type: Tunable continuous wave laser Wavelength Coverage Class: Wideband or CLband class by option



MODEL

Ando AQ4321D

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ4321D

LISTING

<https://aumictechlabs.com/products/aq4321d-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ando AQ4321D is a high-precision tunable laser source engineered for DWDM system and component evaluation across the 1520–1620 nm band. It delivers stable, spectrally pure output with absolute wavelength calibration via internal gas cell absorption, enabling accurate characterization of optical devices without manual recalibration. Continuous wavelength tuning, high side-mode suppression, and synchronous sweep capability make it ideal for broadband optical testing and dynamic range measurements when paired with compatible spectrum analyzers. Technical Specifications
Wavelength Range: 1520–1620 nm Wavelength Resolution: 0.001 nm Absolute Wavelength Accuracy:

± 10 pm (typ.) at 1520 nm; ± 15 pm or less (typ.) Relative Wavelength Accuracy: ± 0.01 nm (typ.)
Wavelength Stability: ± 0.01 MHz/h or less (typ.); ± 100 MHz/h (typ.) Spectral Linewidth: 200 kHz (typ.); up to 200 MHz (typ.) Optical Output Level: +7 dBm (typ.); peak output >7.5 dBm Output Level Flatness: ± 0.1 dB across 1540–1600 nm Optical Output Stability: ± 0.01 dB; 0.05 dB or less Optical Output Reproducibility: ± 0.04 dB (typ.) Side Mode Suppression Ratio (SMSR): 60 dB (typ.); 50 dB or more
Wavelength Sweep Speed: 100 nm/sec (max.) Optical Return Loss: 50 dB or more
Key Features Absolute wavelength calibration using internal gas cell absorption line with automatic interval-based recalibration
Continuous wavelength tuning via proprietary external resonant structure High SMSR and output stability for complete optical component characterization Synchronous sweep functionality for high-speed dynamic range measurements Fine wavelength resolution (0.001 nm) for precise DWDM channel selection
Typical Applications DWDM system and component testing Optical device characterization and validation Spectral purity and linewidth measurement Wavelength-dependent optical response analysis
Compatibility & Integration Supports synchronous sweep operation with compatible optical spectrum analyzers such as the Ando AQ6317B for enhanced measurement capability.

AQ4321D Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Ando AQ4321D tunable laser source
Output Type	Tunable continuous wave laser
Wavelength Coverage Class	Wideband orCLband class by option
Wavelength Setting Resolution Class	Fine pm class
Output Power Range Class	Calibrated leveled power
Optical Connector Class	Fiber output adapter
Spectral Linewidth Class	Narrow linewidth
SMSR Class	High side mode suppression
Remote Interface	GPIB
Display	Wavelength power display
Form Factor	Benchtop
Sweep Modes	Step continuous tune class
Operating Temperature Class	Standard lab
Series Family	Ando AQ4321A AQ4321D
Applications Class	Optical component DWDM test
Power Stability Class	Specified after warmup
Wavelength Accuracy Class	Calibrated accuracy
Wavelength Repeatability Class	High
Modulation Class	Optional on family
Safety Class	Laser safety classified
Warmup	Specified to rated accuracy
Sibling AQ4321A	Prior family member
Reference	Internal wavelength reference class
Wavelength repeatability	Class: High
Linewidth	Class: Narrow linewidth

PARAMETER	VALUE
Power stability	Class: Specified after warmup
Operating temperature	Class: Standard lab

AQ4321D Specifications

PARAMETER	VALUE
Ando AQ4321D Tunable Laser Source	Overview
Key Features	Enhanced AQ4321D TLS performance
Fine wavelength resolution	GPIB remote programming
Technical Specifications	Instrument Family: Ando AQ4321D tunable laser source
Notes	From Ando AQ4321D / AQ4321 family documentation. Verify band option and maximum power on the specific unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
Operating Temperature	Class: Standard lab
Operating Temperature Class	Standard lab
Series Family	Ando AQ4321A AQ4321D
Applications Class	Optical component DWDM test
Power Stability Class	Specified after warmup
Wavelength Accuracy Class	Calibrated accuracy
Wavelength Repeatability Class	High
Modulation Class	Optional on family
Safety Class	Laser safety classified
Warmup	Specified to rated accuracy
Sibling AQ4321A	Prior family member
Reference	Internal wavelength reference class Notes From Ando AQ4321D / AQ4321 family documentation. Verify band option and maximum power on the specific unit.

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 versus earlier A-suffix units. OEM TLS family docs position it for precision swept-wavelength optical tests.

Applications

Precision optical component sweeps, DWDM source emulation, and automated wavelength-dependent loss measurements.

Key Features

Enhanced AQ4321D TLS performance

Calibrated optical power control

Fine wavelength resolution

GPIB remote programming

Benchtop optical source

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Family	Ando AQ4321D tunable laser source
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Optical Connector Class	Fiber output adapter
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Applications Class	Optical component DWDM test
Power Stability Class	Specified after warmup
Wavelength Accuracy Class	Calibrated accuracy
Wavelength Repeatability Class	High
Modulation Class	Optional on family
Safety Class	Laser safety classified

PARAMETER	VALUE
Warmup	Specified to rated accuracy
Sibling AQ4321A	Prior family member
Reference	Internal wavelength reference class

Notes
From Ando AQ4321D / AQ4321 family documentation. Verify band option and maximum power on the specific unit.

Laser Safety

Laser safety classified Warmup: Specified to rated accuracy Sibling AQ4321A: Prior family member Reference: Internal wavelength reference class Notes From Ando AQ4321D / AQ4321 family documentation. Verify band option and maximum power on the specific unit.

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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<https://aumictechlabs.com>

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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.