ANDO

AQ6319

The Ando AQ6319 is a high-performance optical spectrum analyzer (OSA) designed for high-accuracy wavelength measurement in R&D and manufacturing environments. Featuring a free-space optical input design, it provides excellent compatibility with specialty and large-core fibers, alongside faster sweep speeds, LAN connectivity, and advanced analysis capabilities. It is particularly renowned for its ±10 pm wavelength accuracy in the C and L bands.

SPECIFICATIONS

General

Interfaces	GPIB, LAN (10BASE-T/100BASE-TX), VGA output, Keyboard (PS/2), Mouse (PS/2), PC Card Slot, 3.5-inch Floppy Disk Drive
Display	9.4-inch color LCD (640 × 480 pixels)
Operating Humidity	80% RH or less (no condensation)
Warm-up Time	1 hour

Physical

Power Supply	100 to 120 V AC / 200 to 240 V AC, 47 to 63 Hz, maximum 150 VA
Operating Temperature	5 to 40 °C °C
Dimensions (W×H×D)	426 mm × 221 mm × 450 mm mm

Optical Performance

Wavelength Range	600 to 1700 nm
Wavelength Resolution Settings	0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0 nm
Wavelength Accuracy	±10 pm (1520 to 1580 nm), ±100 pm (600 to 1700 nm)
Wavelength Repeatability	±5 pm
Close-in Dynamic Range	50 dB (at ±0.1 nm from peak), 55 dB (at ±0.2 nm from peak), 60 dB (at ±0.4 nm from peak) at 0.01 nm resolution
Level Measurement Range	-90 to +10 dBm (1200 to 1600 nm, high-sensitivity mode)
Level Accuracy	±0.3 dB (at 1310/1550 nm, -20 dBm input)
Level Flatness	±0.1 dB (1520 to 1580 nm)
Level Linearity	±0.05 dB (0 to -50 dBm)
Polarization Dependency	±0.05 dB (at 1550 nm, 1520 to 1580 nm)
Maximum Safe Optical Input Power	+20 dBm per channel (maximum safe input power +25 dBm)
Sweep Time	0.5 seconds or less (100 nm span, active-shift off, 501 sampling points)

Measurement & Control

Sampling Points	51 to 10001
Sweep Modes	Single, Repeat, Auto
Analysis Functions	DFB-LD, FP-LD, LED, WDM, PMD, Optical Fiber Amplifier (NF), Optical Filter

Optical Input Port

Input Structure	Free-space optical input
Fiber Compatibility	SM (9/125 µm), GI (50/125 µm, 62.5/125 µm), and large-core specialty fibers
Optical Connectors	FC, SC, ST (user-interchangeable)

Display & Scale

Vertical Scale	0.1 to 10 dB/div, Linear

Storage

External Storage	3.5-inch Floppy Disk Drive (2HD/2DD)

Features

Built-in Printer	High-speed thermal printer

I/O Ports

Keyboard Interface	PS/2
Video Output Port	VGA (D-Sub 15-pin)

Performance

Wavelength Linearity	±0.01 nm (1520 to 1580 nm)
Level Resolution	0.01 dB
Sweep Span Range	0.1 nm to 1100 nm, and 0 nm
Level Units	dBm, dBm/nm, W, W/nm (with standard prefixes: m, u, n, p)

Inputs & Outputs

GP-IB Ports	2 ports (GP-IB1 for computer control, GP-IB2 for external instrument control)
Analog Output Port	0 to 5 V (proportional to optical input level, BNC)
External Trigger Input	TTL level (BNC)

Software & Control

Command Emulation	AQ6317 series compatible mode

TECHNOLOGY

Grating-based Optical Spectrum Analysis

APPLICATIONS

Optical Component and Laser Characterization, WDM Transmission System Analysis, R&D and manufacturing testing

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