

YOKOGAWA

AQ6370

The Yokogawa AQ6370 is a high-performance bench-top optical spectrum analyzer (OSA) designed for the 600 nm to 1700 nm wavelength range. Inheriting the optical capabilities of the AQ6317 series and the high throughput of the AQ6319, it features a 0.02 nm maximum resolution, high dynamic range, and versatile connectivity for automated testing. This model is widely used in optical communication networks, laser characterization, and the development of active and passive fiber-optic components.

SPECIFICATIONS

General

Interfaces	GP-IB, RS-232C, Ethernet (10/100Base-TX), USB 1.1 (Host & Device)
Display	10.4-inch color TFT-LCD (SVGA, 800 × 600 resolution)
Warm-up Time	1 hour (for specified wavelength accuracy)

Physical

Power Supply	100 to 240 V AC, 50/60 Hz, approx. 150 VA maximum power consumption
Operating Temperature	5 to 35 °C °C
Dimensions (W×H×D)	426 mm × 221 mm × 459 mm mm
Weight	19 kg kg

Wavelength Performance

Wavelength Range	600 to 1700 nm
Wavelength Resolution Settings	0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0 nm
Minimum Sampling Resolution	0.001 nm
Sweep Span Range	0 nm, 0.1 to 1100 nm

Optical Power Performance

Level Sensitivity	-90 dBm (1310 to 1620 nm, resolution 0.05 nm or wider, sensitivity HIGH3)
Maximum Safe Optical Input Power	+20 dBm
Close-in Dynamic Range	70 dB (peak ±0.2 nm), 73 dB (peak ±0.4 nm) at 1520 to 1580 nm, resolution 0.02 nm
Level Accuracy	±0.4 dB (at 1310/1550 nm, -20 dBm input level)
Level Flatness	±0.1 dB (1520 to 1580 nm)

Sweep Characteristics

Sweep Time	0.2 s or less (100 nm span)
Number of Sweep Sampling Points	101 to 50001

Optical Interface

Compatible Optical Fiber	Single-mode (SM 9.5/125 μm), Multi-mode (GI 50/125 μm, GI 62.5/125 μm)
Optical Input Connector Type	Universal Adapter (user-replaceable FC, SC, ST etc.)

Inputs & Outputs

Trigger Input Connector	BNC, TTL level
Video Output Connector	Analog RGB (D-Sub 15-pin)
Keyboard/Mouse Port	USB
Trigger Output Level	TTL

Remote Control & Programming

Remote Command Support	SCPI standard, AQ6317 emulation mode
Macro Programming	Built-in simple macro function for automated testing

Physical & Environmental

Storage Temperature Range	-10 to 50 °C
Operating Humidity Range	20 to 80% RH (non-condensing)

Level Performance

Level Linearity	±0.05 dB (-50 to 0 dBm), ±0.1 dB (-70 to -50 dBm)
Polarization Dependence	±0.05 dB (at 1310/1550 nm), ±0.1 dB (1200 to 1620 nm)

Analysis & Software

Built-in Analysis Functions	DFB-LD, FP-LD, LED, Spectral Width, WDM, PMD, EDFA, Optical Filter, Color Analysis
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Remote Control

GPIO Emulation	AQ6317 series command compatibility
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Display

Trace Display Modes	Write, Max Hold, Min Hold, Average, Fix
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Environmental

Operating Altitude	Up to 2000 m
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TECHNOLOGY

Optical Spectrum Analysis (OSA)

APPLICATIONS

Characterization of optical active and passive components, laser diodes, transceivers, and optical amplifiers

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