

Optical Spectrum Analyzer (OSA)

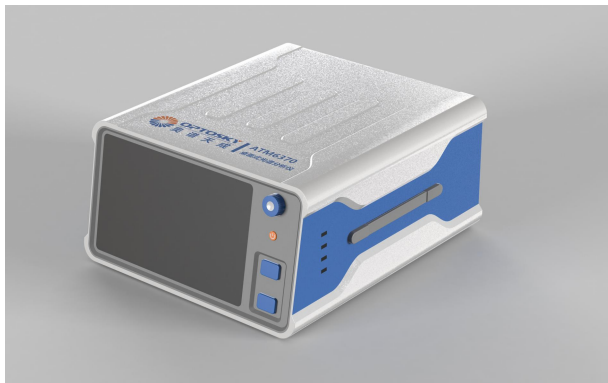
ATM6370

Features

- Multiple wavelength ranges available: 600-1700nm
- Wavelength resolution up to 20pm
- Highest sensitivity as low as -90dBm
- Maximum dynamic range up to 78dB
- Wavelength accuracy up to 8pm
- 14-inch large touch screen, Android operating system, easy to use
- Built-in high-stability calibration laser light source
- Support multiple optical input interfaces
- USB, Ethernet, WIFI, Bluetooth, RS-485 and other interfaces
- Support remote control, data transmission and firmware update
- Multiple specified data analysis functions: WDM, SMSR, etc.
- Support shielding gas input/output (customized version)

Application

- WDM system test
- Semiconductor laser spectrum characteristic measurement
- EDFA system parameter test
- Optical amplifier test
- Light source characteristic analysis
- Optical fiber wavelength loss characteristic analysis



Description

ATM6370 spectrum analyzer produced by Optosky is an ultra-high resolution spectrum analyzer specially developed for the fields of fiber-optic communication and fiber-optic sensing. ATM6370 utilizes a simulation-optimized optical system and precise assembly and adjustment technology to ensure the instrument's high resolution, high stray light suppression rate and other characteristics. Its highest spectral resolution can reach 20pm, the highest measurement power is +20dBm, and the lowest power sensitivity is -90dBm.

ATM6370 has a built-in calibration laser light source (optional) for wavelength calibration, with a wavelength accuracy of up to 8pm.

ATM6370 integrates the Android operating system and uses a 14-inch ultra-large high-definition touch screen to provide customers with a simple and easy-to-learn operating interface and a better user experience. It has 4 USB ports, which can be connected to an external mouse, keyboard and USB data storage settings. It has Ethernet, RS-232, RS-485 and other interfaces to support remote control, data transmission and firmware updates.

ATM6370 supports a variety of specified data analysis functions (application modules), which can be used for semiconductor laser (DFB, FP) spectral feature measurement, WDM system testing, optical amplifier testing, laser light source characteristic analysis, passive device (WDM filter, FBG, ROADM, WSS, etc.) testing, optical fiber wavelength loss characteristic analysis, etc.

Model	Wavelength range
ATM6370-17	600-1700nm
ATM6370-25	1000-2500nm (customizable)
ATM6370-4-25	400-2500nm (customizable)
ATM6370-9-17	900-1700nm (customizable)

1. Parameter

Model	ATM6370	
Wavelength Range	600-1700 nm	
Span	0.1nm ~ 1100nm (full range span), 0nm	
Wavelength Accuracy	±10 pm (1520 ~1580 nm, typical value ±0.008nm) ±10 pm (1520 ~1580 nm, typical value ±0.008nm) ±0.1 nm (full wavelength range)	
Wavelength Linearity	±10 pm (1520~1580 nm) ±15 pm (1450~1520 nm, 1580~1620 nm)	
Wavelength Repeatability	±5 pm (1 minute)	
Wavelength Resolution Setting	0.02nm, 0.05nm, 0.1nm, 0.2nm, 0.5nm, 1nm, 2nm	
Minimum Sampling Resolution	1 pm	
Power Sensitivity	-90 dBm (1300~1620nm) -85 dBm (1000~1300nm) -60 dBm (600~1000nm)	
Maximum Input Power	+20 dBm (full wavelength range)	
Maximum Safe Input Power	+25 dBm (total input power)	
Power Accuracy	±0.4dB (1310/1550nm, input power: -20dBm)	
Power Linearity	±0.05dB (input power: -50 ~ +10dBm)	
Power Flatness	±0.1dB(1520 ~ 1580nm) ±0.2dB(1450 ~ 1520nm、 1580 ~ 1620nm)	
Dynamic range	Resolution : 0.02nm	58dB (peak ±0.2nm, typical value 60dB), 45dB (peak ±0.1nm, typical value 50dB)
	Resolution : 0.05nm	73dB (peak ±1.0nm, typical value 78dB), 64dB (peak ±0.4nm, typical value 70dB), 50dB (peak ±0.2nm, typical value 55dB)
	Resolution : 0.1nm	60dB (peak ±0.4nm, typical value 67dB), 45dB (peak ±0.2nm, typical value 50dB)
Stray Light Suppression Rate	76 dB	
Optical Return Loss	35dB (Using the APC interface)	
Universal Optical Fiber	SM(9.5/125μm) 、 GI(50/125μm、 62.5/125μm) 、 Large core fiber (up to 200 μm)	
Display and Operating System	14-inch large touch screen, Android operating system	

Storage	512 GB
Interface	4 USB, Ethernet, WIFI, Bluetooth, RS485, trigger input and output interfaces
Working Conditions	Ambient temperature: 0°C ~ 40°C; humidity: ≤80% Performance guarantee temperature: 18~28°C
Dimension	440x240x480 mm ³
Weight	TBD

2. Configuration List

NO.	Name	Number
1	Host: ATM6370 Optical Spectrum Analyzer	1
2	Standard three-core power cord	1
3	User manual	1
4	Product certificate	1