

AQ6375

The OSA for applications in exNIR + SWIR regions

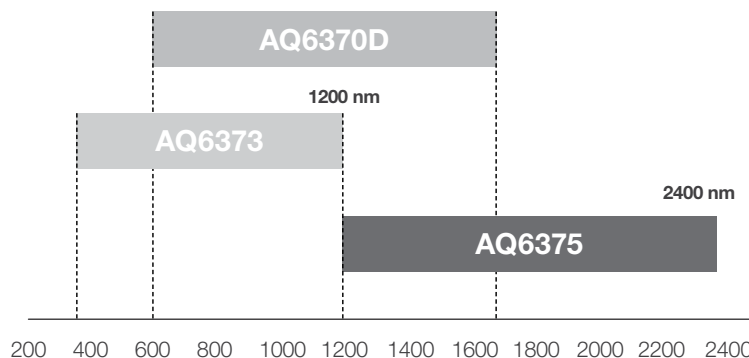
Precision Making



Optical Spectrum
Analyser - AQ6375

The AQ6375 is the first bench-top optical spectrum analyzer covering the long wavelengths over 2 μ m.

One stand-alone instrument able to take measurements faster and with greater accuracy than conventional systems, with also the convenience to have full analysis features already built-in.



World class optical performance and unique characteristics

6 wavelength resolution settings: from 2nm down to 50pm

To enable the user to choose the best value according to the characteristics of the device or system under test.

7 level sensitivity settings: from -50 dBm down to -70 dBm

To set the instrument according to the test application and measurement speed requirements.

Taking advantage of the very high sensitivity, low power optical signals can be measured accurately and quickly, without any need to use averaging over many measurements.

A very wide measurement power range: 90 dB

The high quality photodetector and the smart design of the gain circuitry enable the AQ6375 to measure with great accuracy very weak and very strong signals as well, without being damaged.

High close-in dynamic range: 55 dB

Thanks to the sharp spectral characteristics of the AQ6375 monochromator, signals in close proximity can be clearly separated and accurately measured.

High wavelength accuracy: up to ± 0.05 nm

Easily maintained thanks to the built-in calibration function and wavelength reference source.

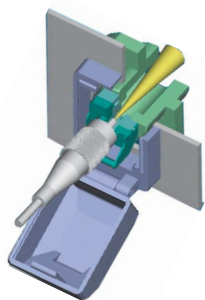
Fast measurement: only 0.5 sec for 100 nm span

With sensitivity set to NORM_AUTO (-60 dBm).

Horizontal scale also in Wave Number (cm⁻¹)

in addition to the commonly-used scales in wavelength (nm) and frequency (THz).

The free space optical input

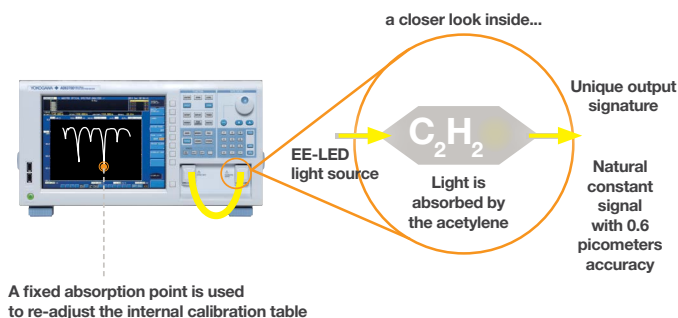


The optical input structure designed for the AQ6370 Series is the most effective to guarantee high coupling efficiency, measurements repeatability and no maintenance.

The free space optical input is, in fact:

- Dual purpose:* accepts both SM and MM (up to 800 μm core diameter) fibers without the high insertion loss due to the mismatch between MM and SM fibers
- Versatile:* accepts both /PC and /APC connectors
- Worry-free:* no internal fiber can be scratched by inaccurate coupling of fibers
- Maintenance-free:* no internal fiber can get dirty

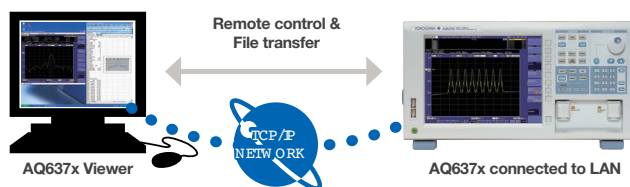
The built-in calibration source



Ambient temperature change, vibrations and shocks affect the measurement accuracy of high precision instruments. We want our OSAs to be able to deliver always the precise measurements they were designed for, therefore our instruments are equipped with a light source for calibration. Calibration process is fully automatic and takes only 2 minutes to complete. It includes:

- ✓ The Optical Alignment function, which automatically aligns the optical path in the monochromator to assure the level accuracy;
- ✓ The Wavelength Calibration function, which automatically calibrates the spectrum analyser with the reference source to ensure the wavelength accuracy.

The AQ6370 Series Viewer



Real-time remote control

With the AQ6370 Series Viewer, a software package which replicates on your PC the instrument's screen, you can:

- ✓ remotely control and operate with the instrument;
- ✓ display, analyse and transfer the data acquired by the instrument on your remote PC.

12 Built-in analysis functions in AQ6375

- ✓ WDM (OSNR)
- ✓ Optical Fiber Amplifier
- ✓ DFB-LD
- ✓ FP-LD (VCSEL)
- ✓ LED
- ✓ Spectral Width
- ✓ Notch Width
- ✓ SMSR
- ✓ PMD
- ✓ Optical Power
- ✓ Optical Filter
- ✓ Go/No-Go Judgment

The AQ6370 OSA Series delivers:

Reliability – The most trusted OSAs in the world thanks to their unmatched measurement accuracy, robustness and proven quality.

Performance – Best in class, state of the art and high-precision instruments that keep pace with the ever changing and fast evolving optical technology.

Expertise – For more than 30 years our R&D and Product Specialist teams have been listening to the needs of OSA users to continuously provide them with innovative and effective solutions for their measuring challenges.

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