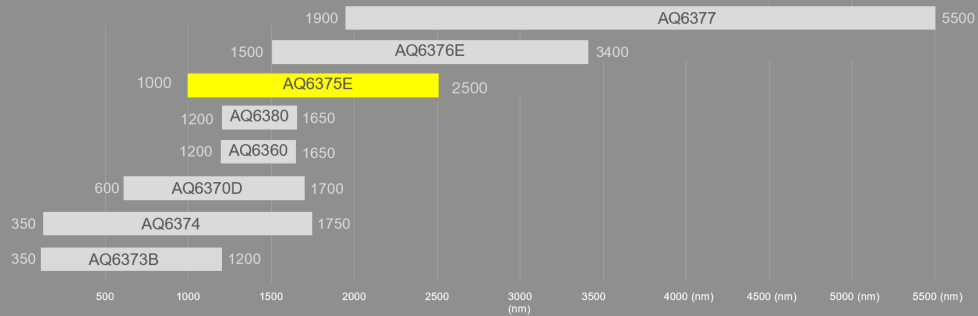




AQ6375E

Optical Spectrum Analyzer

For environmental, medical and industrial applications in SWIR region



The AQ6375E offers unparalleled optical performance to measure the emission spectrum of near-infrared lasers in the 2 μm band. Typically, these lasers are used for industrial, medical or environmental applications such as the highly accurate measurement of carbon dioxide, methane, and other gasses that have a harmful effect on the environment.

World class optical performance and unique characteristics

Wavelength range from 1000 nm to 2500 nm

Covers wavelength often used for optical components in medical or environmental sensing applications.

- AQ6375E-10 (Standard) offers 1200 nm to 2400 nm
- AQ6375E-20 (Extended WL) offers 1000 nm to 2500 nm

Wavelength accuracy up to ± 5 pm

High accuracy is easily maintained thanks to the built-in calibration function and wavelength reference source.

Wavelength resolution settings from 0.05 nm to 2 nm

The flexibility to select a range of resolution setting enable users to tune the instrument to specific application requirements. The advanced monochromator offers a wavelength resolution of 0.05 nm, this enables the detection of spectral signals which are in close proximity; and allows them to be distinguished and accurately measured.

Wide measurement power range: 90 dB (-70 to +20 dBm)

The high-quality photodetector and the smart design of the gain circuitry enable the AQ6375E to measure both very weak and very strong signals with great accuracy, without being damaged.

Close-in dynamic range of 55dB (peak ±0.8 nm)

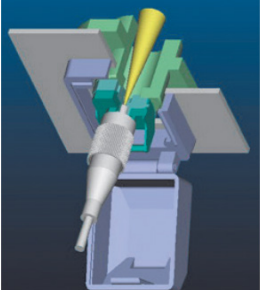
The sharp spectral characteristics of the monochromator makes it able to distinguish a small spectral component from a large spectral component.

Built-in calibration light source

Vibration, shock and changes in ambient temperature affect the measurement accuracy of high precision instruments. Therefore, the AQ6375E offers an internal light source for wavelength calibration.

Free-space optical input

No damage when connecting fibers as there's no optical fiber mounted inside the instrument. This makes it a worry-free, maintenance free, and dual-purpose input since it is applicable to both SMF and MMF (up to 400 µm).



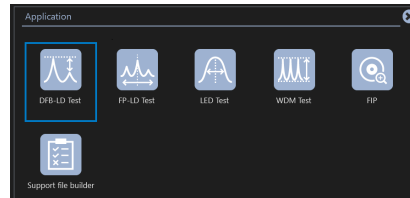
Intuitive “touch” operation

The large 10.4-inch touchscreen enables intuitive operation and offers great visibility on the measured waveforms. The combination of touch screen and frequently used function keys, make users find their way on this new OSA easily.



Application driven

Pressing the application button makes measurements setups easy as it opens a guide-through wizard for easy setup of specific measurements and analysis.



Built-in analysis functions

Save time by using automatic calculation of key parameters of the device under test.

- DFB-LD
- FP-LD
- LED
- Spectral width (peak/notch)
- SMSR
- Optical power
- WDM (OSNR)
- EDFA (Gain and NF)
- Filter (peak/bottom)
- WDM filter (peak/bottom)

Fiber inspection Probe (FIP)

The APP function supports fiber inspection probe to visualize the quality of fiber connector surface.

USB ports

To connect USB storage device, mouse and keyboard.

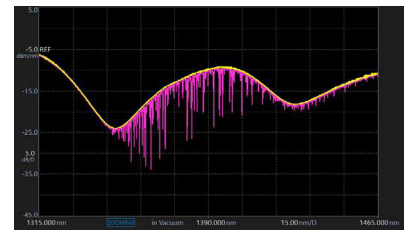
Built-in cut filter for high order diffracted light*

Due to the diffractive technology used, the monochromator in some circumstances could generate high order diffracted light which appears at wavelengths equal to the integral multiple of input wavelengths. To reduce this effect a cut-off filter eliminates these unwanted artifacts to ensure measurement quality.

*Except AQ6375E-01

Gas purging

The monochromator of AQ6375E is equipped with a closed-loop circuit for air purging. Continuous circulation of pure purge gas, removes water vapor and therefore the influence of light absorptions improving the measurement quality.



PC Software OSA Viewer

Enables emulation and remote control of the AQ6375E via a PC.

Data access through LAN

Allows convenient access to files stored in the internal memory as well as ability to remotely update the firmware from a PC.

Why choose the AQ6375E?

Performance – Excellent optical wavelength resolution, accuracy and close-in dynamic range specifications allow optical signals in close-proximity to be clearly separated and accurately measured.

Productivity – Smart technology and functionality such as an intuitive touchscreen, automated wavelength calibration, optimized sweep speed and dedicated application setup menus allow users to operate the OSA efficiently to keep pace with the ever-evolving optical technology.

Expertise – For more than 40 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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