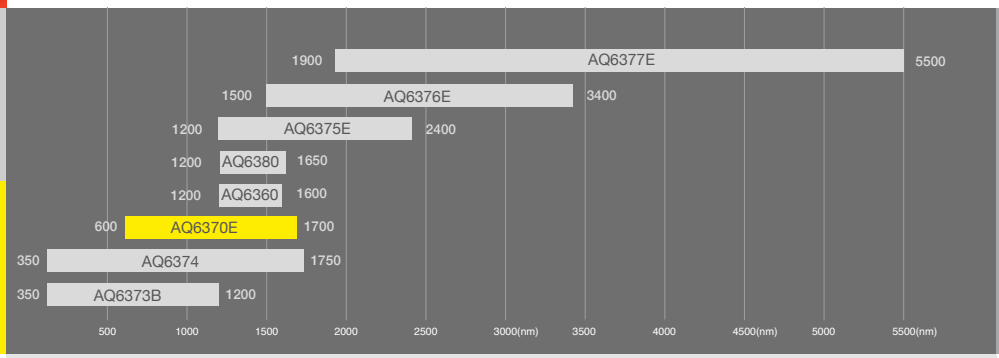
YOKOGAWA

AQ6370E
Optical Spectrum Analyzer

The OSA market leader in the telecom industry



High-Speed Data Acquisition

The AQ6370E is an upgraded version of the popular AQ6370D, the new model comes equipped with features that enhance performance and improve usability. 2 models available:

- Standard - 600-1700nm
- High Performance - 600-1700nm
  - Higher accuracy
  - Higher dynamic range

Typically, the AQ6370E can be used to characterize a wide range of components, including lasers for optical communications, optical transceivers, and optical amplifiers.

World class optical performance and unique characteristics

Wavelength range: from 600 nm to 1700 nm
Covers wavelength often used for both telecom and general purpose applications.

Wavelength accuracy up to ± 0.008 nm
Easily maintained thanks to the built-in calibration function and wavelength reference source.

Wavelength resolution settings from 20 pm to 2 nm
The advanced monochromator with a wavelength resolution of 20 pm enables the user to choose the best value according to the characteristics of the device or system under test.

Level sensitivity settings: from 7 steps down to -90 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.

Up to 2x faster measurement: SMSR mode
The SMSR mode is the sensitivity setting dedicated for measuring the laser's SMSR up to 2x faster.

Built-in calibration light source
Wavelength calibration with the internal light source can be performed fully automatically and regularly without an external fiber cord.

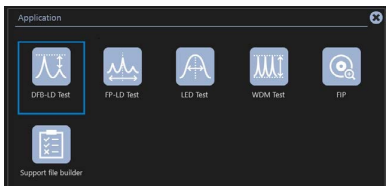
Close-in dynamic range of 78dB (typ.)
The sharp spectral characteristics of the monochromator, makes it able to distinguish a small spectral component from a large spectral component

Sharper spectrum measurement: HCDR mode
The HCDR (High Close-In Dynamic Range) mode is a feature available on the High-performance model. The single frequency lasers can be measured with higher close in dynamic range.

Products	AQ6370E	
Model	Standard	High performance
WL range	600 - 1700 nm	600 - 1700 nm
WL resolution	0.02 to 2nm	0.02 to 2nm
WL accuracy	±0.015 pm (1520 - 1580 nm)	±0.008 nm (1520- 1580 nm)
Close-in Dynamic Range	78 dB (typ.)	78 dB (typ.)
Sensitivity	-90 dBm (1300 - 1620 nm)	-90 dBm (1300 - 1620 nm)

Large touchscreen makes operation simpler and more intuitive
You can change measurement conditions, perform analysis, change the optical spectrum view as if you were operating a tablet device.

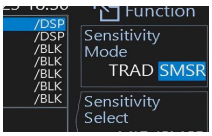
Application-oriented test apps simplifies the test process
For easier measurement setup the AQ6370E has an application menu with frequently-used testing applications.



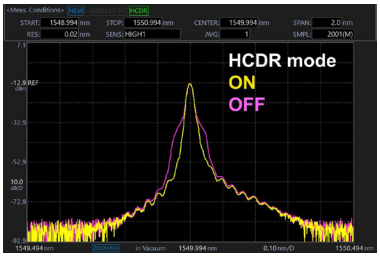
Built-in analysis functions eliminatepost-processing tasks
Built-in analysis functions to automatic calculation of the major parameters of the device under test.

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

SMSR mode (new)
The SMSR mode is the sensitivity setting dedicated for measuring the laser's SMSR, up to 2x faster as the conventional sensitivity mode (TRAD MIDx2).



HCDR mode (new)
The HCDR (High Close-In Dynamic Range) mode is a feature available on the High-performance model (-20). The single frequency lasers can be measured with higher close in dynamic range; making the the spectrum around the peak sharper and the side modes more clearly visualized.



OSA Viewer enables emulation and remote control via a PC
Emulate and remote control the AQ6370E using PC application software called the OSA viewer.

Enhanced user friendliness

USB ports - To connect USB storage device, mouse and keyboard.

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.

Program function (revised) - The GUI has been updated and is easier to use. The program files created on the AQ6370D can also be loaded.

Why choose the AQ6370E?

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 intuitivetouchscreen, 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 teamshave 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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