

AQ6370B

Optical Spectrum Analyzer



● **Drastically Improves Measurement Throughput**

- Fast measurement
- Fast data transfer
- Quick key & command response

● **Enhanced User Interface**

- Mouse and keyboard operation
- Trace zoom capability
- USB interface for storage devices

● **World Class Optical Performance^{*1}**

- High wavelength resolution: 0.02 nm
- Wide close-in dynamic range
- Multimode fiber test capability (up to GI 62.5/125 μm)

● **30% Reduced Weight (19kg)^{*2}**

*1 In the diffraction-grating-based optical spectrum analyzer industry as of July 2008

*2 In comparison with AQ6317B optical spectrum analyzer.

QUALITY ■ INNOVATION ■ FORESIGHT

Redefining Optical Spectrum Measurement Excellence

Improves Measurement Throughput

FAST MEASUREMENT & QUICK RESPONSE

Fast Measurement

Through newly developed monochromator, the fast electrical circuit, and the noise reduction techniques, the AQ6370B can complete a measurement faster even when measuring a steep spectrum from DFB-LD or DWDM signals, or when measuring a low power signal from a broadband light source.*

10x

Key & Command Response

Applying a faster microprocessor and new algorithms, key response time and command processing time is drastically reduced. AQ6370B can achieve up to one hundred times faster response*.

100x

FAST DATA TRANSFER AND STORAGE

100x **ETHERNET** provides up to one hundred times faster data transfer speed than the GP-IB data transfer*.

10x **GP-IB** provides up to ten times faster data transfer speed than the conventional GP-IB*.

10x **USB** provides up to ten times faster data recording/retrieving speed to a removable memory device than the floppy disk*.

*In comparison with AQ6317 series optical spectrum analyzer.

Enhances User Friendliness

INHERITS PROVEN OPERABILITY

The AQ6370B inherits front panel operation and function key assignments from our conventional models that are proven intuitive and easy to use by our multitude of users.

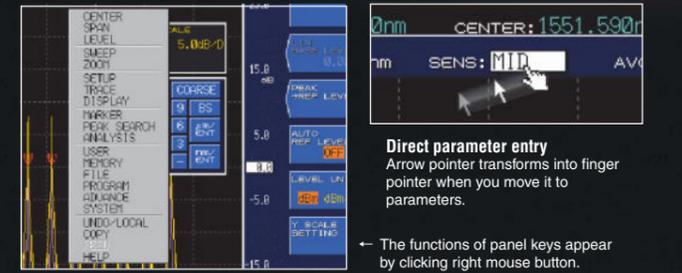


Front panel keys

Parameter entry window appears on the screen with the entry keys for mouse operation when a parameter is selected.

MOUSE & KEYBOARD OPERATION

You can easily operate the AQ6370B with only a mouse instead of the front panel keys. Measuring conditions displayed on the trace screen can be changed directly by the mouse pointer. The keyboard is useful for entering labels and file names.



Direct parameter entry
Arrow pointer transforms into finger pointer when you move it to parameters.

← The functions of panel keys appear by clicking right mouse button.

Expedites Development of Automated Test Systems

The AQ6370B is equipped with GP-IB, RS-232C, and Ethernet (10/100BASE) interfaces to be connected with an external PC for remote access and building an automated test system. It is compatible with a standardized programming language and supports AQ6317 commands for easy programming. Macro Program is a useful built-in function for making a simple auto test program.

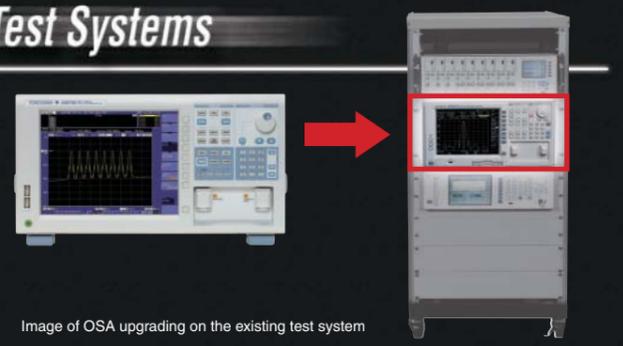


Image of OSA upgrading on the existing test system

COMPATIBLE WITH SCPI

The SCPI is an ASCII text based standard code and format that conforms to IEEE-488.2. The standard remote commands of the AQ6370B are compatible with SCPI. It can be used with most computer test languages and test application software.

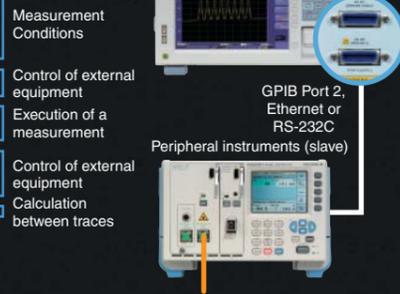
AQ6317 EMULATION MODE

The AQ6317 series is Yokogawa's best-selling optical spectrum analyzer. Since there are so many existing users all over the world, the AQ6370B supports private remote programming codes and formats of the AQ6317 series to make it easier for users to upgrade their current test environment.

Note: some commands may not be compatible due to changes in specifications and functions.

```

PROGRAM EDIT
*****
ACTIVE TRACE 0
UNIT 0
RESOLUTION 14.0 100Hz
SENS HIGH
SAMPLING POINT AUTO ON
CENTER WAVELENGTH 1550.00nm
REFERENCE LEVEL 0.00nm
*****
SEND 2:ROUT1 1,41,01:ROUT1 2,41,01
UNIT 0
RESOLUTION 14.0 100Hz
SENS HIGH
SAMPLING POINT AUTO ON
CENTER WAVELENGTH 1550.00nm
REFERENCE LEVEL 0.00nm
*****
UNIT 0
RESOLUTION 14.0 100Hz
SENS HIGH
SAMPLING POINT AUTO ON
CENTER WAVELENGTH 1550.00nm
REFERENCE LEVEL 0.00nm
*****
SEND 2:ROUT1 1,41,02:ROUT1 2,41,02
UNIT 0
RESOLUTION 14.0 100Hz
SENS HIGH
SAMPLING POINT AUTO ON
CENTER WAVELENGTH 1550.00nm
REFERENCE LEVEL 0.00nm
*****
UNIT 0
RESOLUTION 14.0 100Hz
SENS HIGH
SAMPLING POINT AUTO ON
CENTER WAVELENGTH 1550.00nm
REFERENCE LEVEL 0.00nm
*****
END
    
```



Measurement Conditions
Control of external equipment
Execution of a measurement
Control of external equipment
Calculation between traces

Example of a simple auto test system with Macro program
OSA: Optical Spectrum Analyzer

MACRO PROGRAMMING

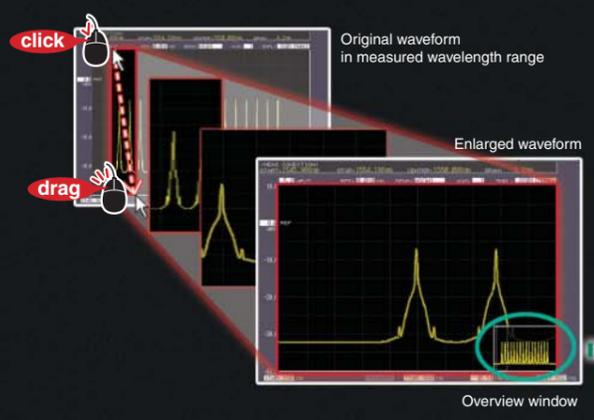
Macro programming enables user to easily create test procedures by recording the user's actual key strokes and parameter selections. One program can contain up to two hundred program lines, and programs can be called as subroutines to make the main program simple. Moreover, macro programs can control external equipment through Ethernet, RS-232C and GP-IB port (GP-IB2). Therefore, an external PC is not required to build a simple auto test system.

LabVIEW® DRIVER SUPPORT

LabVIEW® is a popular test application software. Yokogawa can provide LabVIEW drivers for the AQ6370B.

TRACE ZOOM CAPABILITY

Trace zoom makes it possible to change display conditions, such as center wavelength and span, by clicking and dragging the mouse to select the designated area to enlarge. No need to make another sweep to refresh the display conditions anymore. The analysis function can be performed in the enlarged area.



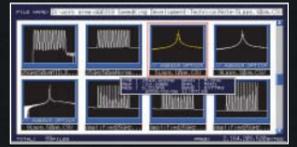
In the Analysis Screen, traces can also be zoomed. When a line item on the analysis result table is selected, the display area is automatically shifted and the corresponding signal is centered in the display area. This makes it easier to verify the accuracy of the analyzed data.

Overview Window
Once the trace is zoomed in, the overview window appears and shows the entire trace. By dragging the zoomed area border in this window with the mouse, the display area in the main trace window can be modified.

Facilitates Frequent Data Handling

LARGE INTERNAL MEMORY

5000+ TRACES
The AQ6370B has a 128 MB user area in the internal memory that can save test setups, waveforms, analysis results, and macro program files. It is large enough to save more than five thousand traces.

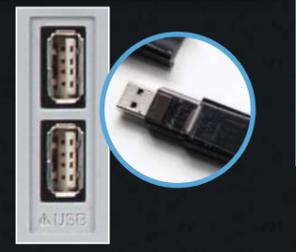


Thumbnail file preview

Thumbnail file preview makes it easy to find a particular file out of thousands of files. (The Thumbnail file preview function also works with an external memory.)

SUPPORTS USB 1.1 MEMORY

USB
The AQ6370B has two USB 1.1 compatible interfaces. They support large size removable memory devices such as Flash ROM and hard disk drives (HDD). Removable static memory of more than 1 GB and USB compatible external HDDs of more than 40 GB in capacity are commercially available. (as of January 2006)

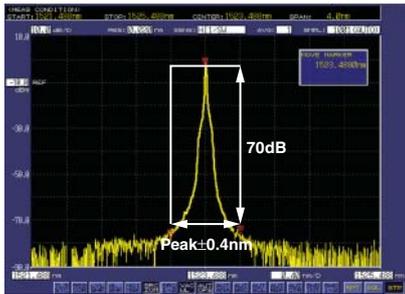


World Class Optical Performance and Flexibility*

EXCELLENT SIGNAL SEPARATION

The AQ6370B uses a newly developed high performance monochromator to achieve high wavelength resolution (0.02 nm) and wide close-in dynamic range (70 dB).

With the sharper spectral characteristics of the new monochromator, OSNR measurement of 50 GHz spacing DWDM transmission systems and EDFA evaluation with multiple wavelength sources can successfully be performed.



Close-in Dynamic Range
70 dB at peak ± 0.4 nm, resolution setting 0.02 nm (typical)

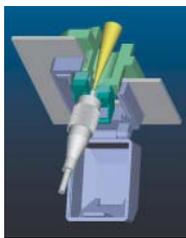
MULTIMODE FIBER TEST CAPABILITY

The AQ6370B uses a free space input structure that can handle up to GI 62.5/125 multimode fiber. Multimode fiber is commonly used in high speed Ethernet network, such as GE-PON.

The free space input is also beneficial for measurement repeatability as insertion loss variation at the input connector is smaller than the other input type which has an optical fiber inside the monochromator.



Sample waveform of an 850nm laser with a multimode fiber (62.5/125 mm)



Structure of the free space monochromator input

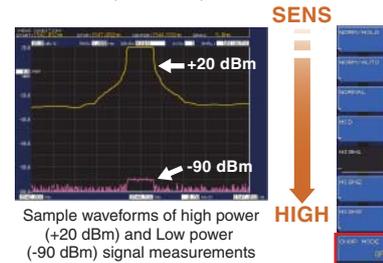
WIDE MEASUREMENT RANGE

Power: +20 dBm to -90 dBm

The AQ6370B can measure optical power as high as +20 dBm, which enables direct measurement of high power sources such as optical amplifiers and pump lasers for Raman amplifiers. Measurement sensitivity can be chosen from seven categories according to test applications and measurement speed requirements.

Wavelength: 600 nm to 1700 nm

The AQ6370B covers not only telecommunication wavelengths, but also the visible light wavelength region which is used for home electronics, medical, and industrial material applications.



Sample waveforms of high power (+20 dBm) and Low power (-90 dBm) signal measurements

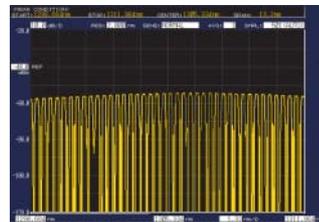
Level sensitivity settings:
NORM Hold, NORM Auto, NORM, MID, and HIGH (1, 2, and 3), that correspond to sensitivity from -60 dBm through -90 dBm.

High dynamic range mode setting:
SWITCH mode is to obtain a better dynamic range by reducing an influence of stray-light. They are applicable in MID and HIGH mode.

PULSED LIGHT MEASUREMENT CAPABILITY

The AQ6370B can catch the peak power of a pulsed signal using PEAK HOLD or using an externally provided trigger to synchronize with the measured signal. It can be applied to the transmission loop testing of telecommunication systems, and also to the low power measurement at the early stage of laser chip development since it works in the high sensitivity modes.

CW light measurement mode



Pulsed light measurement mode



Sample waveform of a pulsed light signal

* In the diffraction-grating-based optical spectrum analyzer industry as of July 2008

Real-Time Remote Operation for Monitoring and Troubleshooting

AQ6370 Viewer (Optional Application Software)

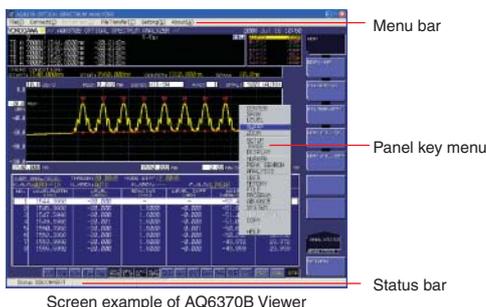
The AQ6370Viewer is a package of the PC application softwares for AQ6370, AQ6370B, and AQ6375.

The AQ6370BViewer is designed to work with the AQ6370B Optical Spectrum Analyzer. It has the same user interface and functions as the AQ6370B so that you can easily display and analyze waveform data acquired by the AQ6370B.

Viewer function

Trace data files saved on the AQ6370B can be retrieved and analyzed on a PC.

Note. Measurement cannot be initiated in the Viewer mode.



Screen example of AQ6370B Viewer

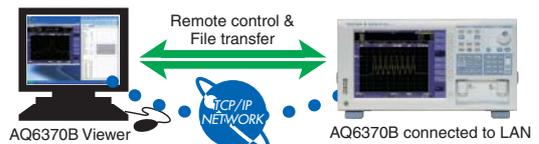
Remote Control function

The remote control allows you to set measurement conditions and to execute a measurement on AQ6370B Optical Spectrum Analyzer from anywhere on the Ethernet network. Upon completion of a measurement on AQ6370B, AQ6370BViewer downloads and shows the updated traces.

Note. The program function is not supported. Some other restrictions may apply.

File Transfer function

Files can be exchanged between AQ6370B and PC. Program files edited on AQ6370B Viewer can also be transferred to AQ6370B.



PC Requirements

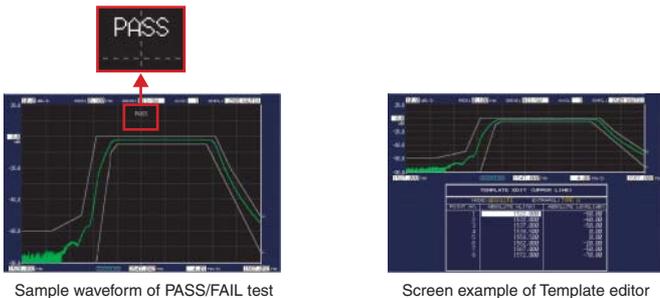
- <Hardware> HDD: 50 MB or more of available disk space
Memory: 512 MB or more
- <OS> Windows 2000 (Service Pack 4 or later) or
Windows XP (Service Pack 1 or later)

*Windows 2000 and Windows XP are registered trademarks of Microsoft Corporation of the United States.

Advantageous Functions

PASS/FAIL AUTO TEST FUNCTION

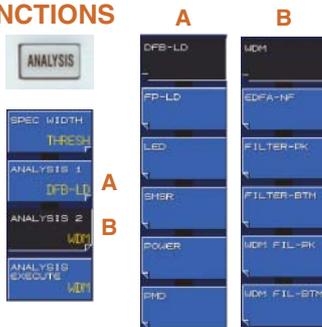
The waveform can automatically be judged to PASS or FAIL against specified conditions. Using Template function upper and/or lower limits for the assessment can be set and measured waveform can automatically be compared. It is an effective way to reduce time and human error in assessment, especially for production line tests. The template data can be created and stored in the AQ6370B. It can be edited using a spread sheet on an external computer as well.



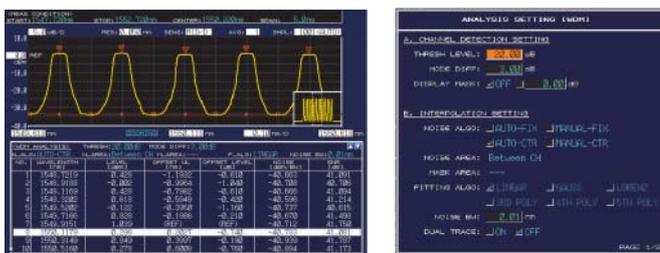
13 AUTO ANALYSIS FUNCTIONS

Thirteen types of built-in analysis functions for popular applications can be selected by using Analysis function key on front panel or by mouse operation. The functions automatically perform designated analyses and provide results. The results can be saved in a storage device.

- WDM analysis (OSNR)
- WDM-NF analysis (EDFA)
- DFB-LD analysis
- Filter analysis, etc.

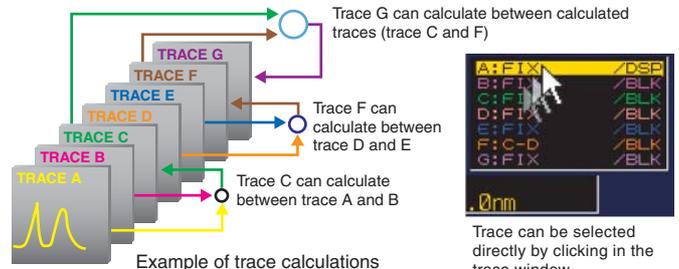


Analysis Parameter Window
All parameters for an individual analysis are displayed in a dialog box for easy setup.



7 TRACES & CALCULATION FUNCTIONS

The AQ6370B has seven individual traces for measurement data. Some traces can be used for calculations (two-trace subtraction and addition), MAX/MIN hold, averaging, and curve fitting.

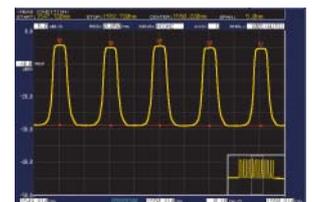


Enhanced Curve Fit function

The Curve fit function is an approximation technique to exclude an influence of noise and/or signal overlapping on the waveform. Curve fit method can be chosen from Gaussian, Lorenz, 3rd Poly, 4th Poly, and 5th Poly. Curve fit can be applied to an individual trace. Fitting area can be set by line markers (L1 and L2).

Analysis mode

When WDM or WDM-NF analysis is executed, one of the curve fit methods is used for a baseline measurement. The curve fit method can be specified in the parameter window of each analysis.



Example of curve fitting in selected areas

Noise level of amplified WDM signal can be estimated by using the curve fit in selected areas, even if noise between signals cannot be seen due to a limit of signal separation performance.



Marker fitting

The fitting curve can also be applied to the marker positions set by user. For example, this can be used to measure a modulated signal spectrum.



Connectivity

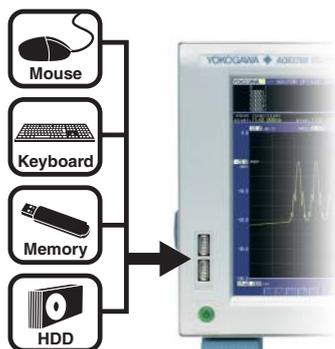
FRONT PANEL

OPTICAL CONNECTORS (USER EXCHANGEABLE)

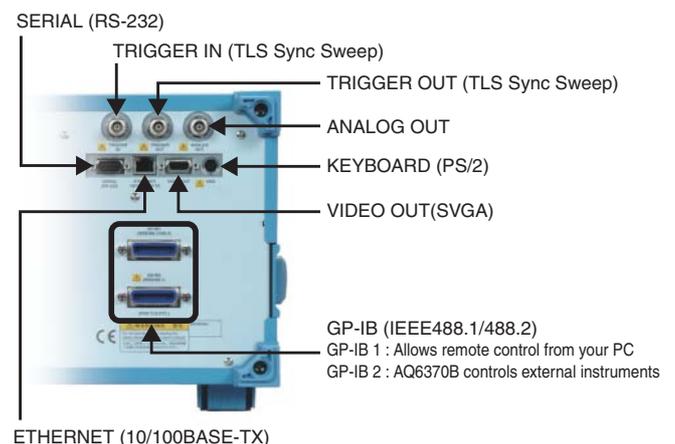
The AQ6370B adopts a universal type optical connector system for optical input and calibration output enabling direct coupling to major optical connector types. The connectors can be replaced by users.



USB 1.1 INTERFACE



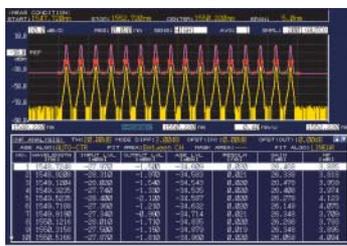
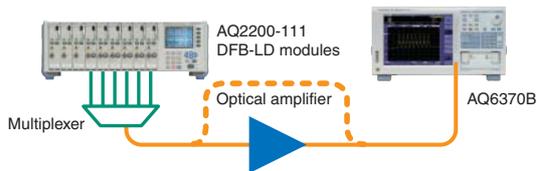
REAR PANEL



Applications

SIMPLE EDFA TEST

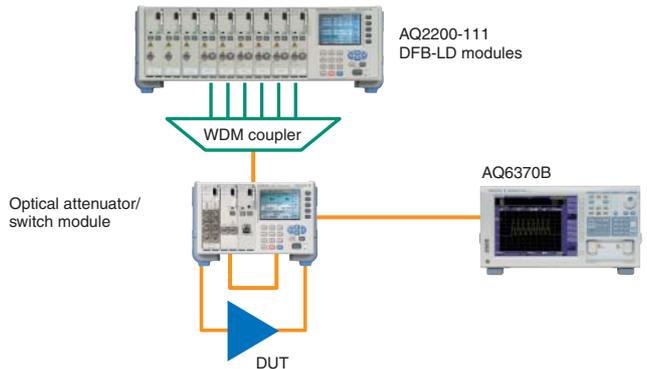
The ASE interpolation method is used to measure gain, NF, and key parameters for optical fiber amplifier evaluation. With WDM-NF analysis function, up to 1024 channels of multiplexed signals can simultaneously be tested. An ASE level for NF measurements is calculated by using a curve-fit function for each WDM channel. The curve-fit and source spontaneous emission (SSE) suppress function enhance a measurement accuracy.



WDM waveform before/after amplification by EDFA

AUTOMATED EDFA TEST

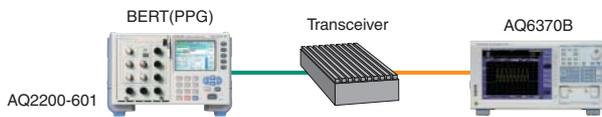
In conjunction with DFB-LDs, optical attenuator and optical switches, an EDFA auto test system can easily be established. This system does not require manual reconfiguration of optical paths and adjustments of EDFA input power, and that improves measurement throughput and avoids a human error. AQ2200 series is a modular system suitable for building such a system.



Example of automated EDFA test configuration

TRANSCIVER / LD TEST

In conjunction with bit error rate test (BERT) equipment, the AQ6370B can measure the center wavelength and spectral width of transceivers and LD modules. Various built-in analysis functions, such as DFB-LD, FP-LD (VCSEL), and LED facilitate test process.



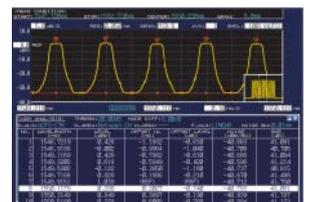
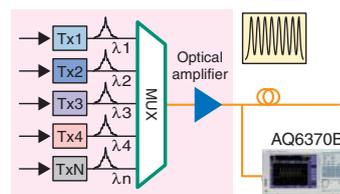
Example waveform and analysis result of transceiver output

WDM OSNR TEST

AQ6370B's wide close-in dynamic range allows accurate OSNR measurement of DWDM transmission systems (up to 50 GHz spacing). The built-in WDM analysis function analyzes the measured waveform and shows peak wavelength, peak level and OSNR of WDM signals up to 1024 channels simultaneously. The curve fit function is used to accurately measure noise levels.

| Label | Label | Label | THRESHOLD | THRESHOLD | MODE | OFFSET | OSNR | OSNR | OSNR | OSNR | OSNR | OSNR |
|-------|------------|-------|-----------|-----------|------|--------|--------|------|------|------|------|------|
| NO. | WAVELENGTH | LEVEL | LEVEL | OFFSET | UNIT | UNIT | UNIT | UNIT | UNIT | UNIT | UNIT | UNIT |
| 1 | 1548.0219 | 0.238 | -1.1932 | -0.610 | dBm | dBm | 41.201 | | | | | |
| 2 | 1548.0188 | 0.002 | -0.6954 | -1.840 | dBm | dBm | 40.705 | | | | | |
| 3 | 1548.1168 | 0.423 | -0.7832 | -0.910 | dBm | dBm | 41.854 | | | | | |
| 4 | 1549.2332 | 0.018 | -0.5869 | -0.420 | dBm | dBm | 41.214 | | | | | |
| 5 | 1549.5332 | 0.122 | -0.3950 | -1.180 | dBm | dBm | 40.615 | | | | | |
| 6 | 1549.7168 | 0.323 | -0.1500 | -0.210 | dBm | dBm | 41.255 | | | | | |
| 7 | 1549.9151 | 1.839 | (REF) | (REF) | dBm | dBm | 41.753 | | | | | |
| 8 | 1550.1170 | 0.203 | 0.0362 | -0.420 | dBm | dBm | 41.031 | | | | | |
| 9 | 1550.3163 | 0.349 | 0.2557 | -0.130 | dBm | dBm | 41.707 | | | | | |
| 10 | 1550.5148 | 0.270 | 0.2339 | -0.700 | dBm | dBm | 41.173 | | | | | |

Example of analyzed data table

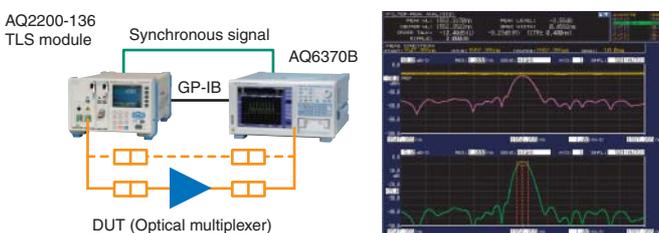


Example of WDM OSNR analysis

PASSIVE COMPONENT TEST

Wide dynamic range measurement using a synchronous wavelength sweep function* of a tunable laser source and optical spectrum analyzer is suitable for evaluating passive devices and components with a high crosstalk ratio. The tunable laser source emits a single wavelength, and the AQ6370B's filter characteristics cuts source spontaneous emission and scattered light. Thus, this system can achieve wide dynamic range over 70 dB.

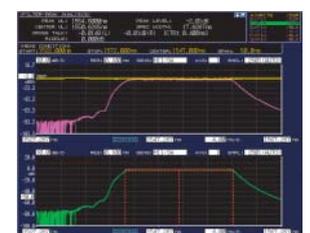
* TLS SYNC function. It supports AQ4320, AQ4321 and AQ2200-136 Tunable Laser Source.



Example of AWG measurement

In conjunction with a white light source, an ASE light source or other broadband light source, you can simply perform evaluation of passive devices such as WDM filters and FBG. The AQ6370B's superb optical characteristics enable higher-resolution and wider dynamic range measurements.

The built-in optical filter analysis function simultaneously reports peak/bottom wavelength, level, crosstalk, and ripple width.



Example of CWDM filter measurement

Optical Spectrum Analyzer AQ6370B

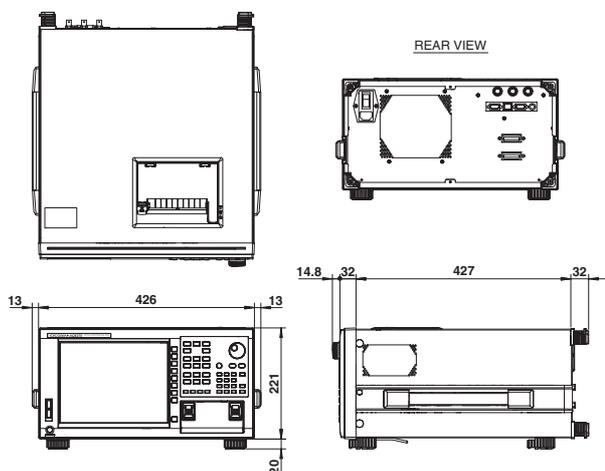
Specifications

| | |
|---|--|
| Applicable fiber | SM (9.5/125 μm), GI (50/125 μm , 62.5/125 μm) |
| Measurement wavelength range ¹⁾ | 600 to 1700 nm |
| Span ¹⁾ | 0.5 nm to full range and zero span |
| Wavelength accuracy ^{1), 2), 3)} | ± 0.02 nm (1520 to 1580 nm) ± 0.04 nm (1450 to 1520 nm, 1580 to 1620 nm) ± 0.1 nm (Full range) |
| Wavelength linearity ^{1), 2), 3)} | ± 0.01 nm (1520 to 1580 nm) ± 0.02 nm (1450 to 1520 nm, 1580 to 1620 nm) |
| Wavelength repeatability ^{1), 2)} | ± 0.005 nm (1 min.) |
| Measurement data point | 101 to 50001 |
| Wavelength resolution setting ^{1), 2)} | 0.02, 0.05, 0.1, 0.2, 0.5, 1.0 and 2.0 nm |
| Resolution accuracy ^{1), 2), 3)} | $\pm 5\%$ (1450 to 1620 nm, resolution setting: 0.1 to 2.0 nm, resolution correction: ON, measurement data point setting: AUTO) |
| Level sensitivity setting | NORM_HOLD, NORM_AUTO, NORMAL, MID, HIGH1, HIGH2 and HIGH3 |
| High dynamic range mode | Switch (Sensitivity: MID, HIGH1, HIGH2 and HIGH3) |
| Level sensitivity ^{2), 4), 5), 7)} (resolution: 0.05 nm or wider) (Sensitivity: HIGH3) | -90 dBm (1300 to 1620 nm) -80 dBm (1000 to 1300 nm) -60 dBm (600 to 1000 nm) |
| Level accuracy ^{2), 4), 5), 6)} | ± 0.4 dB (1310/1550 nm, input level: -20 dBm, sensitivity: MID, HIGH1, HIGH2 and HIGH3) |
| Level linearity ^{2), 4)} | ± 0.05 dB (Input level: -50 to +10 dBm, sensitivity: HIGH1, HIGH2 and HIGH3) |
| Level flatness ^{2), 4), 6)} | ± 0.1 dB (1520 to 1580 nm) ± 0.2 dB (1450 to 1520 nm, 1580 to 1620 nm) |
| Maximum input power ^{2), 4)} | +20 dBm (Per channel, full span) |
| Safe max. input power ^{2), 4)} | +25 dBm (Total safe power) |
| Close-in dynamic range ^{1), 2), 9)} (at 1523 nm) | 37 dB (± 0.1 nm from peak, resolution: 0.02 nm) 55 dB (± 0.2 nm from peak, resolution: 0.02 nm) 45 dB (± 0.4 nm from peak, resolution: 0.05 nm) 62 dB (± 0.4 nm from peak, resolution: 0.05 nm) 40 dB (± 0.2 nm from peak, resolution: 0.1 nm) 57 dB (± 0.4 nm from peak, resolution: 0.1 nm) |
| Polarization dependency ^{2), 4), 6)} | ± 0.05 dB (1550/1600 nm) ± 0.08 dB (1310 nm) |
| Sweep time ^{1), 7), 8)} | Per sensitivity mode; NORM_AUTO: 0.5 sec NORMAL: 1 sec MID: 2 sec HIGH1: 5 sec HIGH2: 20 sec HIGH3: 75 sec |

| | | |
|------------------------------------|---------------------------------|---|
| Function | Automatic measurement | Macro program function (64 programs, 200 steps) |
| | Setting of measuring conditions | Center wavelength setting, Span setting, Measurement data point setting, Wavelength resolution setting, Sensitivity setting, High dynamic range mode setting, Averaging number setting (1 to 999 times), Automatic measuring conditions setting, Sweep between line markers, zero span sweep, Automatic measurement data point setting, Pulse light measurement, External trigger measurement, Sweep trigger, Sweep status output, Analog output, TLS synchronized sweep, Air/vacuum wavelength measurement, Pass/Fail judgment with template |
| | Display | Level scale setting (0.1 to 10 dB/div. and linear), Vertical sub scale setting (0.1 to 10 dB/div. and linear), Reference level and position setting, Vertical division number setting (8, 10 or 12), Frequency horizontal scale display, Horizontal scale zoom in/out display, Measurement condition display, Noise mask, Data table, Label, Split display, % display, dB/nm (power spectral density) display, dB/km display, Template display |
| | Traces | 7 independent traces, Write/Fix setting, Display/Blank setting, Max./Min. hold, calculation between traces, Roll (Sweep) averaging (2 to 100 times), Normalized, Curve fit/Peak curve fit/Marker curve fit, Trace copy function, Trace clear function |
| | Marker/Search | Delta marker (Max. 1024), Vertical/Horizontal line marker, Peak search, Next peak search, Bottom search, Next bottom search, Auto search, Search between horizontal line markers, Search in the zooming area |
| | Analysis | Spectral width (threshold, envelope, RMS, Peak RMS, notch), WDM (OSNR) analysis, EDFA-NF analysis, Filter peak/bottom analysis, WDM filter peak/bottom analysis, DFB-LD analysis, FP-LD analysis, LED analysis, SMSR analysis, Power analysis, PMD analysis, Pass/Fail judgment with template, Auto analysis, Analysis between horizontal line markers, Analysis in the zooming area |
| | Other | Self optical alignment function with built-in light source, Self wavelength calibration function |
| Data storage | Internal memory | 64 Traces, 64 programs, 3 template lines |
| | Internal storage | Max. 128 MByte |
| | External | USB storage (memory/HDD) Capability, FAT32 format |
| | File type | CSV(text)/Binary, BMP/TIFF |
| Interface | Remote control | GPIO, RS-232C and Ethernet (TCP/IP) AQ6317 series compliant commands (IEEE488.1) and IEEE488.2 full support |
| | Category | GPIO x2 (standard/controller), RS-232C, Ethernet, USB1.1 x2, PS/2 (keyboard), SVGA output, Analog output port, Trigger input port, Trigger output port |
| | Optical connector | Free space optical input: Requires AQ9447 (*) connector adapter PC contact built-in light source output: Requires AQ9441 (*) Universal adapter |
| Printer | | Built-in high-speed thermal printer (Factory option) |
| Display ¹¹⁾ | | 10.4-inch color LCD (Resolution: 800 x 600) |
| Power requirement | | 100 to 240 VAC, 50/60 Hz, approx. 150 VA |
| Environmental conditions | | Operating temperature: +5 to +35°C Storage temperature: -10 to +50°C Humidity: 80%RH or less (no condensation) |
| Dimensions and mass ¹⁰⁾ | | Approx. 426 (W) x 221 (H) x 459 (D) mm, Approx. 19 kg (without printer option) |

Dimensions

Unit : mm
(approx. inch)



Note:

- 1) Horizontal scale: wavelength display mode
- 2) At 23 \pm 5°C, with 10/125 μm single mode fiber, after 2 hours of warm-up, after optical alignment with built-in reference light source
- 3) After wavelength calibration with built-in reference light source
- 4) Vertical scale: absolute power display mode, resolution setting: 0.05 nm or wider, resolution correction: OFF
- 5) With 10/125 μm single mode fiber (B1.1 type defined on IEC60793-2, PC polished, mode field diameter: 9.5 μm , NA: 0.104 to 0.107)
- 6) Temperature condition changes to 23 \pm 3°C at 0.05 nm resolution setting.
- 7) High dynamic range mode: OFF, pulse light measurement mode: OFF, TLS sync sweep: OFF, resolution correction: OFF
- 8) Span: any 100 nm or less, measurement data point: 1001, average number: 1
- 9) High dynamic range mode: SWITCH, resolution correction: OFF
- 10) Excluding feet and handles
- 11) Liquid crystal display may include few defective pixels (within 0.002% with respect to the total number of pixels including RGB).
There may be few pixels on the liquid crystal display that do not emit all the time or remains ON all the time. Note that these are not malfunctions.

Standard Accessories

| Name | Qty |
|----------------------|-----|
| Power cable | 1 |
| User's manual (1set) | 1 |

Optical Spectrum Analyzer AQ6370B

Factory Installed Options

BUILT-IN PRINTER

An optional built-in thermal printer is provided to instantly print out a screenshot of the AQ6370B's display, analysis results, a marker list and a macro program list.

Accessory: printer roll paper (1 roll)



OPTICAL CONNECTOR ADAPTERS



For optical input port
AQ9447 Connector Adapter
/FC, /SC, /ST



For calibration output port
AQ9441 Universal Adapter
/RFC, /RSC, /RST

Ordering Information

Model and Suffix Codes

| Model | Suffix Codes | Descriptions |
|---------------------------|--------------|---|
| 735302 | | Optical Spectrum Analyzer AQ6370B |
| Power cable | -D | Power cord (UL3P) |
| | -F | Power cord (CEE-C7) |
| | -R | Power cord (SAA-3P) |
| | -Q | Power cord (BS3P Rectangular) |
| | -H | Power cord (BS3P Round) |
| | -M | Power cord (UL3P with 3P/2P converter) |
| Factory Installed Options | /FC | AQ9447(FC) Connector adapter for optical input |
| | /SC | AQ9447(SC) Connector adapter for optical input |
| | /ST | AQ9447(ST) Connector adapter for optical input |
| | /RFC | AQ9441(FC) Universal adapter for calibration output |
| | /RSC | AQ9441(SC) Universal adapter for calibration output |
| | /RST | AQ9441(ST) Universal adapter for calibration output |
| | /B5 | Built-in thermal printer |

Accessories (Optional)

| Name | Model | Suffix codes | Specifications |
|--------------------------|-----------|--------------|-----------------------------|
| AQ6370 Viewer | 735371 | | |
| AQ9447 Connector adapter | 810804602 | | For optical Input port |
| Connector type | | -FCC | FC type |
| | | -SCC | SC type |
| | | -STC | ST type |
| AQ9441 Universal adapter | 813917321 | | For calibration output port |
| Connector type | | -FCC | FC type |
| | | -SCC | SC type |
| | | -STC | ST type |
| Printer roll paper | B9988AE | | 10 m roll, 10 rolls/1 unit |

Related Products

Optical Spectrum Analyzer
AQ6319



Superior Performance

Optical Spectrum Analyzer
AQ6375



Long Wavelength (1200 to 2400)

White Light Source
AQ4305



Broadband

Tunable Laser/DFB-LD Sources
AQ2200 Series



Modular Platform

Microsoft, MS, and Windows are registered trademarks or trademarks of Microsoft Corporation in the US and other countries. LabVIEW is a U.S. registered trademark of National Instruments. Other company names and product names appearing in this document are the registered trademarks of their respective companies. "Typical" or "typ." in this document means "Typical value", which is for reference, not guaranteed specification.

Note



- Before operating the product, read the user's manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

YOKOGAWA ◆

YOKOGAWA ELECTRIC CORPORATION
Communication & Measurement Business Headquarters /Phone: (81)-422-52-6768, Fax: (81)-422-52-6624
E-mail: tm@cs.jp.yokogawa.com

YOKOGAWA CORPORATION OF AMERICA Phone: (1)-770-253-7000, Fax: (1)-770-251-6427
YOKOGAWA EUROPE B.V. Phone: (31)-33-4641858, Fax: (31)-33-4641859
YOKOGAWA ENGINEERING ASIA PTE. LTD. Phone: (65)-62419933, Fax: (65)-62412606

Subject to change without notice.
[Ed : 01/b] Copyright ©2006
Printed in Japan, 807(KP)