

New Firmware Version 2.0

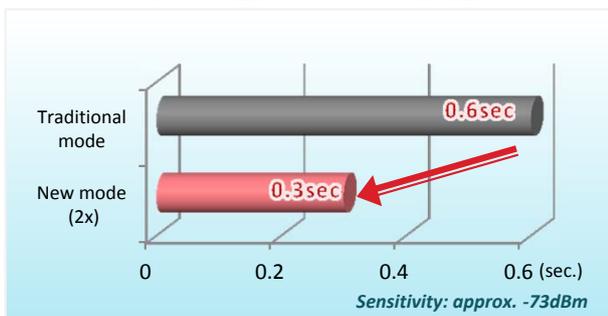
- Double Sweep Speed Mode
- Enhanced analysis and search functions
- New features to improve work efficiency



Increased measurement speed

■ Double Speed Mode

Twice as fast as before



Note. Noise level increases in 2x speed mode compared to the traditional mode.

High speed and Quality waveform

Clean waveform at -70 dBm in 0.3 sec.



2x speed mode

2x SPEED

Mode sign

SWEEP SPEED

1x 2x

Selection Key

Enhanced analysis and search functions

■ Optical transceiver evaluation

Analysis items for optical transceiver testing added to DFB-LD analysis function. Now able to execute the analysis within a zoomed area or between line markers.

Added items:

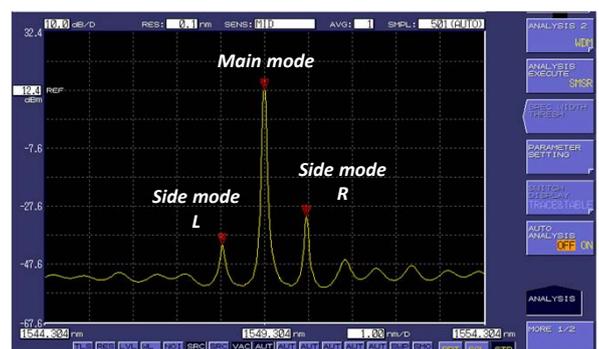
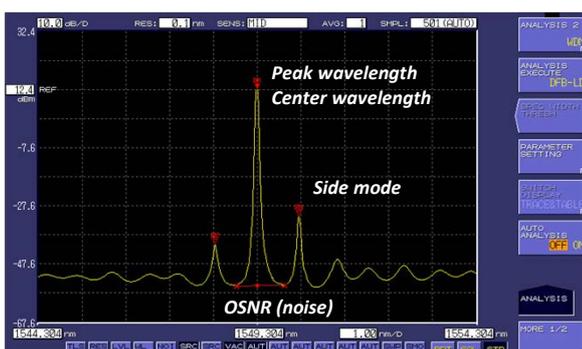
Spectral width(σ), SMSR (L/R), OSNR, Center wavelength, Total power, etc.

<DFB-LD ANALYSIS>			
SMSR:	53.48dB (L)	43.62dB (R)	OSNR: 65.55dB (± 0.10 nm)
PEAK WL:	1549.3040nm	PK LEVEL: 12.33dBm	σ : 0.0212nm
20.00dB WIDTH:	0.1265nm	CTR WL: 1549.3032nm	K σ : 0.0424nm
MODE OFFSET:	-0.9600nm (L)	0.9600nm (R)	POWER: 12.49dBm

■ Enhanced DFB-LD Analysis

In addition to the existing analysis modes (SMSR1 and SMSR2) in which one SMSR value is determined from a highest side mode, new modes (SMSR3 and SMSR4) in which two SMSRs are determined from highest side modes on each side of a main peak are added.

<SMSR ANALYSIS>			
SMSR MODE: MODE 4			
∇ PK:	1549.3040nm	12.33dBm	
∇ 2nd PK: (L)	1548.3440nm	-41.14dBm (R)	1550.2640nm -31.29dBm
∇ PK- ∇ 2nd PK:	(L) -0.9600nm	53.48dB (R)	0.9600nm 43.62dB



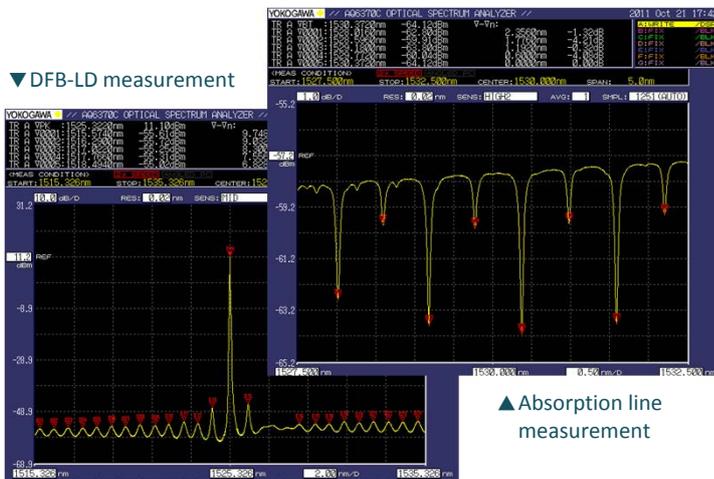
Graphical display for optical amplifier analysis

The AQ6370C can analyze the Gain and Noise Figure of an optical amplifier at multiple wavelengths simultaneously when WDM light sources are used. Analysis results can be displayed in table and graph forms to easily review and identify fault conditions.



Multi peak/bottom search

New search function to detect multiple peaks or bottoms of a spectrum simultaneously. Use the multi-peak search to find side modes of a laser spectrum and the multi-bottom search to find absorption lines of an absorption spectrum for example.



New features to improve work efficiency

Improved operability during the Auto Offset adjustment

The Auto Offset adjustment is performed to ensure level accuracy with a signal "Zeroing" process that traditionally paused the unit until it was completed. The new firmware allows the unit to respond to both keypad and remote commands during the offset adjustment. Additionally the time required to perform the offset adjustment has been reduced by a factor of three, it now only requires 10 seconds to complete.

Span down to 0.1 nm

The stretched span setting gives more flexibility in test condition, and setting narrower span benefits the reduction of measurement time.

New external trigger function

Sample Enable function is added to the external trigger function. The Sample Enable is to make measurements of each sample point from short to long wavelength continuously only while the external trigger input is set to LOW. It can be used for the re-circulating loop test of optical transmission system as a gate.

Frequency domain trace saving

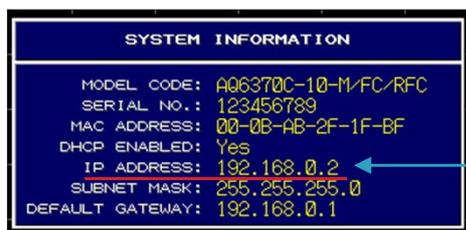
The AQ6370C can display the optical spectrum in frequency domain (THz) as well as wavelength (nm). The new firmware now makes it possible to save the spectrum into a CSV file with THz data as well as the traditional nm data.

LCD ON/OFF

The front panel LCD display can now be switched off by a new soft key and remote command. Useful for free space experiments in a dark room where the LCD light may influence the measurement. It is also useful for general energy conservation when the display is not required in remote control situations.

IP address (DHCP) display

The IP Address automatically assigned by the DHCP server is now displayed in the System Information Window. Making LAN based remote control setup easier than ever.



IP address assigned by DHCP server