Specifications

Applicable fiber		SM (9.5/125 μm), GI (50/125 μm, 62.5/125 μm)
Measurement wavelength range 1)		1200 to 2400 nm
Span 1)		0.5 nm to full range and zero span
Wavelength accuracy 1), 2), 3)		±0.05 nm (1520 to 1580 nm) ±0.1 nm (1580 to 1620 nm) ±0.5 nm (Full range)
Wavelength repeatability 1), 2)		±0.015 nm (1 min.)
Measurement data point		101 to 50001
Wavelength resolution setting 1), 2)		0.05, 0.1, 0.2, 0.5, 1.0 and 2.0 nm
Level sensitivity setting 10)		NORM_HOLD, NORM_AUTO, NORMAL, MID, HIGH1, HIGH2 and HIGH3
Level sensitivity 2), 4), 5), 7) (Sensitivity: HIGH3)		-62 dBm (1300 to 1500 nm) -67 dBm (1500 to 1800 nm, 2200 to 2400 nm) -70 dBm (1800 to 2200 nm)
Level accuracy 2), 4), 5), 6)		±1.0 dB (1550 nm, input level: -20 dBm, sensitivity: MID, HIGH1, HIGH2, or HIGH3)
Level linearity 2), 4)		±0.05 dB (Input level: -30 to +10 dBm, sensitivity: HIGH1, HIGH2 or HIGH3)
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)		45 dB (Peak ±0.4 nm, 1523 nm, resolution 0.05 nm) 55 dB (Peak ±0.8 nm, 1523 nm, resolution 0.05 nm)
Polarization dependency 2), 4), 6)		±0.1 dB (1550 nm)
Sweep time 1), 7), 8)		NORM AUTO: 0.5 sec, NORMAL: 1 sec, MID: 10 sec, HIGH1: 20 sec
Data storage	Internal memory	64 Traces, 64 programs, 3 template lines
	Internal storage	Max. 128 MByte
	External	USB storage (memory/HDD), FAT32 format
	File type	CSV(text)/Binary, BMP/TIFF
Interface	Remote control	GP-IB, RS-232 and Ethernet (TCP/IP) AQ6317 series compliant commands (IEEE488.1) and IEEE488.2 full support
	Category	GP-IB ×2 (standard/controller), RS-232, Ethernet, USB1.1 ×2, PS/2 (keyboard), SVGA output, Analog output port, Trigger input port, Trigger output port
	Optical connector	Optical input port (free-space): AQ9447 (*) connector adapter required Calibration output port (physical contact): AQ9441 (*) connector adapter required
Printer		Built-in high-speed thermal printer (Factory option)
Display 12)		10.4-inch color LCD (Resolution: 800 × 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 11)		Approx. 426 (W) × 221 (H) × 459 (D) mm, Approx. 27 kg (without printer option)

Note:
1) Horizontal scale: wavelength display mode
2) At 23±5°C, with 9.5/125 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, sampling interval: 0.003 nm or less, sensitivity: MID, HIGH1, HIGH2, or HIGH3
4) Vertical scale: absolute power display mode, resolution setting: 0.1 nm or greater
5) With 9.5/125 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±3°C for resolution 0.1 nm
7) Pulse light measurement mode: OFF, TLS sync sweep: OFF
8) Span: 100 nm or less, sampling point: 1001, number of average: 1
9) Sensitivity: HIGH 1, HIGH2, or HIGH3
10) Automatically goes to CHOP mode when HIGH1, HIGH2, or HIGH3 is selected
11) Excluding protector and handle
12) 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.

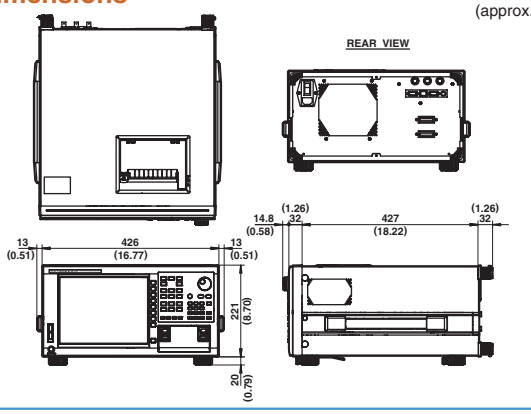
Standard Accessories

Name	Q'ty
Power cable	1
User's manual (1set)	1

Function	Automatic measurement	Macro program function (64 programs, 200 steps)
	Setting of measuring conditions	• Averaging number setting (1 to 999 times) • Automatic measuring condition setting • Sweep between line markers • Zero span sweep (0 nm span) • 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 (0.1 to 10 dB/div. and linear) • Vertical sub scale (0.1 to 10 dB/div. and linear) • Reference level and position • Vertical division number (8, 10 or 12) • Horizontal scale: wavelength (nm)/ wave number (cm^{-1})/ frequency (THz) • Horizontal scale zoom in/out • Measurement condition display • Noise mask • Data table • Label • Split display • Power spectral density (dB/nm) display, dB/km display, % display • Template display
	Traces	• 7 independent traces • Write/Fix, Display/Blank setting • Max./Min. hold • Calculation between traces • Roll (Sweep) averaging (2 to 100 times) • Normalize • Curve fit/Peak curve fit/Marker curve fit • Trace copy/ clear function
	Marker/Search	• Marker: Delta marker (Max. 1024), Vertical/Horizontal line marker • Search: Peak, Next peak, Bottom, Next bottom, Auto, 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/ FP-LD/ 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	• Optical alignment function with built-in light source • Wavelength calibration function

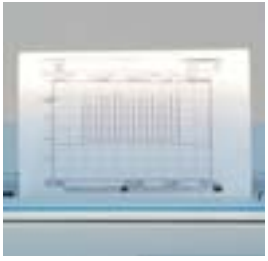
Dimensions

Unit : mm
(approx. inch)



Factory Installed Options

BUILT-IN PRINTER



An optional built-in thermal printer is provided to instantly print out a screenshot of the AQ6375'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
735305		Optical Spectrum Analyzer AQ6375
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
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