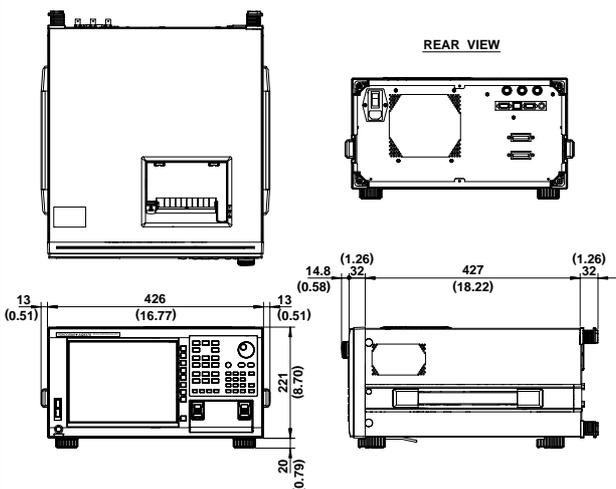


Applicable fiber	SM (9.5/125 μm), GI (50/125 μm, 62.5/125 μm)
Measurement wavelength range ¹⁾	600 to 1700 nm
Span ¹⁾	0.5 nm to full range and zero span
Wavelength accuracy ^{1), 2), 3)}	±0.02 nm (1520 to 1580 nm) ±0.04 nm (1450 to 1520 nm, 1580 to 1620 nm) ±0.1 nm (Full range)
Wavelength linearity ^{1), 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)}	±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) CHOP (Sensitivity: HIGH1, HIGH2 and HIGH3)
Level sensitivity ^{2), 4), 5), 7)}	-90 dBm (1300 to 1620 nm, resolution: 0.05 nm or wider, sensitivity: HIGH3) -80 dBm (1000 to 1300 nm, resolution: 0.05 nm or wider, sensitivity: HIGH3) -60 dBm (600 to 1000 nm, resolution: 0.05 nm or wider, sensitivity: HIGH3)
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)}	45 dB (±0.2 nm from peak at 1523 nm, resolution: 0.05 nm) 62 dB (±0.4 nm from peak at 1523 nm, resolution: 0.05 nm) 40 dB (±0.2 nm from peak at 1523 nm, resolution: 0.1 nm) 57 dB (±0.4 nm from peak at 1523 nm, 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: 0.5sec 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. 128MByte 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, 50/60Hz, approx. 150VA		
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. 27kg (without printer option)		

Dimensions

Unit : mm
(approx. inch)



Note:

- Horizontal scale: wavelength display mode
- At 23±5 °C, with 10/125 μm single mode fiber, after 2 hours of warm-up, after optical alignment with built-in reference light source
- After wavelength calibration with built-in reference light source
- Vertical scale: absolute power display mode, resolution setting: 0.05 nm or wider, resolution correction: OFF
- 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)
- Temperature condition changes to 23±3 °C
- High dynamic range mode: OFF, pulse light measurement mode: OFF, TLS sync sweep: OFF, resolution correction: OFF
- Span: any 100 nm or less, measurement data point: 1001, average number: 1
- High dynamic range mode: CHOP or SWITCH, resolution correction: OFF
- Excluding feet and handles
- 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