Test&Measurement







Fast Accurate Cost-effective

AQ6150 Series Optical Wavelength Meter

Precision Making

Bulletin AQ6150SR-01EN

Recently, in order to enable the new optical networks for IoT or the nextgeneration communication "5 G", WDM (Wavelength Division Multiplexing) technology has been widely used from backbone to access. New optical components and devices for such new technologies need to be tested to measure individual optical wavelengths with a higher accuracy.

Our extensive experience working with customers in the optical Test & Measurement Industry has enabled us to design the world's most reliable and versatile Optical Wavelength Meters. In fact, they feature specific technical characteristics that make them the most efficient and effective instruments for measuring devices and systems used in the most demanding applications of photonic technology.

Yokogawa's AQ6150 Series can satisfy the specific test and measurement needs of R&D and manufacturing centers belonging to these demanding industries.

Reliability – The most trusted optical wavelength meters in the world, thanks to their unmatched measurement accuracy, robustness and proven quality.

Technology – Best in class, state of the art and high-precision instruments that keep pace with ever changing and fast evolving optical technology.

Operability – For more than 30 years our R&D and product specialist teams have been listening to the needs of users to continuously provide them with innovative and effective solutions for their measuring challenges.

Standard/High Accuracy models

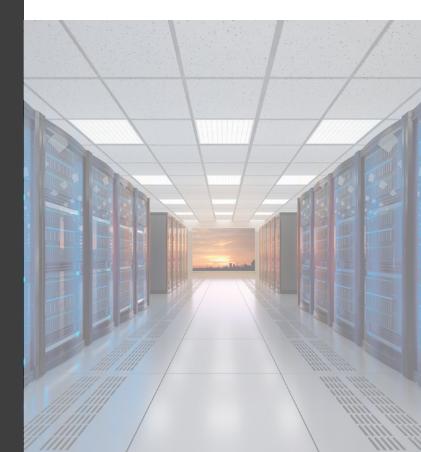
There are two models available, the ± 0.2 ppm high accuracy model with improved wavelength accuracy (AQ6151B) and the ± 0.7 ppm standard model (AQ6150B).

Standard/Extended/Wide range type

Standard: for telecom device testing from O to L-Band Extended: for CWDM transceiver testing Wide range: for pump laser testing

Multi wavelength/Single wavelength type

You can choose between multi wavelength detection capable of simultaneous measurement of multiple wavelengths such as WDM signal or single wavelength detection, which is enough to characterize a transceiver module, LD chip or even the wafer level output.



2X Faster measurement speed*

For the production of tunable laser sources and tunable optical

transceivers, high speed measurement and

processing capability are required. The AQ6150 series can acquire, analyze and transfer a measurement to a PC within 0.2 seconds.

*Compared with our previous models.

Model		Wavelength	Accuracy	Maximum number of wavelengths	Application	
High accuracy	Standard	1270 to 1650 nm			Adjustment, characterization, and	
model	Extended	1200 to 1700 nm	±0.2 ppm	1024 (Multi-wavelength) 1 (Single-wavelength)	inspection of laser chips, tunable lasers, WDM transmission	
AQ6151B	Wide range	900 to 1700 nm			systems, etc.	
Standard model	Standard	1270 to 1650 nm			Inspection of DFB-LDs, tunable	
AQ6150B	Extended	1200 to 1700 nm	±0.7 ppm	1024 (Multi-wavelength) 1 (Single-wavelength)	lasers, optical transceivers.	
	Wide range	900 to 1700 nm			WDM transmission systems	



Excellent wavelength measurement performance

High wavelength accuracy of ±0.2 ppm

There are two models in this series. The High Accuracy AQ6151B model offers an accuracy of ± 0.2 ppm to meet the most demanding precision requirements. The Standard Accuracy AQ6150B offers a ± 0.7 ppm accuracy for applications with less demanding requirements, at a more affordable price.

The real time correction feature utilizes a highly stable reference signal from the built-in wavelength reference light source in order to provide long-term stability for each and every measurement taken.

CW, modulated transceiver and optical filter measurement

The optical output of optical transceivers and optical transmission systems is modulated with a transmission frequency including 10 G and 25 Gbps. The built-In Optical Spectrum Analysis capability utilizing an FFT technique is required to measure the spectrum broadened by the modulated signal.

In addition to the regular CW light mode, the AQ6150 Series has a modulated light mode. The modulated mode analyzes the optical spectrum and discovers the center wavelength of the modulated light. This mode can also be used for the center wavelength measurement of optical filters such as a band pass filter, AWG and WSS.

Simultaneous measurement of up to 1024 wavelengths

AQ6150 series can measure up to 1024 wavelengths in a single input signal with a minimum separation of 5 GHz simultaneously, quickly, and accurately. This means it can meet testing needs in the development and production of WDM transmission system today and in the future as well. The multi-wavelength measurement capability contributes to production efficiency and cost reduction in the production of single-wavelength laser devices as well, by combining multiple laser modules or optical transceivers using an optical coupler and measuring all the signals at once.

Delivering high performance even with low-power input signals

Equipped with an Auto Gain Control (AGC) function, the AQ6150 Series adjusts the gain of the electrical amplifier automatically based on the input signal power. This helps maximize wavelength accuracy and measurement speed even if the input signal power is as low as -40 dBm.

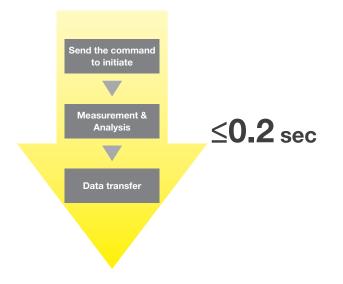


Improve productivity

Increase throughput with high speed measurement

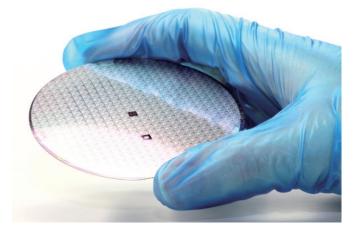
For the adjustment and characterization of tunable laser sources and tunable optical transceivers requiring hundreds of wavelength measurements per device, high-speed measurement and processing capability are crucial for improving the production throughput.

Both models can acquire, analyze and transfer a measurement to a PC in less than 0.2 seconds! This is 2 times faster than our AQ6150 or AQ6151 model, thus vastly improving production throughput. In the Repeat measurement mode, the AQ6150 series can collect 10 measurements per second, making it extremely useful when adjusting a device while monitoring the wavelength in real time.



Upgrade the test system with ease

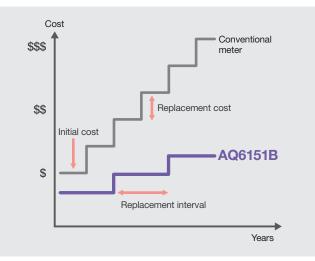
Easily build an automated measurement system using a remote control interface, ETHERNET or GP-IB. The remote command set complies with the commonly accepted SCPI industry standard command set for programmable instruments. Thus, the existing measurement system can be easily upgraded without having to change the measurement program if Yokogawa AQ6140 series or another SCPI compatible optical wavelength meter is already in use.



Reduce lifetime ownership costs

With the conventional wavelength meters, the high failure rate of the wavelength reference light source and its high replacement costs have been a major contribution to the overall costs of ownership during the product life cycle, not to mention the costs generated by the downtime itself. One of our key targets for product design was to address and mitigate as much as possible these issues. We achieved this goal in a multi-dimensional approach as represented graphically in the below scheme.

- Extending the typical lifetime (MTBF) of the light source (Maximize Horizontal scale).
- Reducing the replacement cost (Minimize Vertical scale).



Lifetime cost savings

Choose your preferred view mode

Single wavelength mode

The single wavelength mode displays the wavelength and power of the highest peak or an arbitrary peak using large easy to read numbers. This allows the values to be easily read even if the unit is placed at the top of the test stand.



Multi wavelength mode

The multi wavelength mode displays a list of wavelengths and power of multiple peaks with the wavelength and power of the highest peak or an arbitrary peak on top of the list. There is also a mode to show the list only to maximize the number of channels shown on the screen.



The horizontal bar graph easily identifies the optical power variation and flatness of the signal.

Delta wavelength mode

The delta wavelength mode calculates and displays the difference between a reference peak and the other peaks in terms of wavelength and power. This mode helps determine the peak spacing.

Grid mode

Displays the deviation between a set grid wavelength and a measured wavelength which is within a set search area centering the set grid wavelength.

No.	GRID WL(nm)	PEAK WL[rm]	DEV[nm]	PW [oBm]	1
90	1549.3150	1549.3146	-0.0004	-8.76	
89	1550.1161	1550.1008	-0.0153	-7.89	
88	1550.9180	1550.9428	0.0248	-8.67	
87	1551.7208				
86	1552.5244	1552.5241	-0.0003	-9.30	
85	1553.3288	1553.3272	-0.0016	-9.41	
84	1554.1340	1554.1345	0.0004	-9.20	
83	1554.9401	1554.9396	-0.0005	-7.60	
82	1555.7471				V

Various measurement units

Choose from any of the following measurement units.

- Wavelength: Wavelength (nm), Frequency (THz), or Wave Number (cm⁻¹)
- Power: dBm, mW, or μW

Optical spectrum view

The AQ6150 series can display an optical spectrum waveform obtained from a Fast Fourier Transform (FFT) algorithm. It allows for determining test conditions and for troubleshooting an error in the measurement while confirming the actual spectrum.

When a peak is selected on the list, the peak automatically shifts to the center of the optical spectrum view, making viewing easy and convenient.



No programming required with built-in analysis functions

The AQ6150 series is equipped with automatic measurement and analysis functions. These functions save valuable time and resources by creating/validating remote control and analysis programs.

Drift analysis

The drift analysis measures the variation of wavelength and power for each peak over time by repeating the measurement. It obtains maximum value (MAX), minimum value (MIN), and variation (MAX-MIN). This function is useful for long-term stability testing and for evaluating the temperature dependency of lasers.

No.	WL[nm]	PW[dBm]	MAX-MIN[nm]	MAX-MINEdB1			
1	1544.9706	-11.32	0.0009	0.07			
2	1546.1009	-11.69	0.0010	0.12			
3	1547.2334	-8.65	0.0009	0.13			
4	1548.3670	-9.48	0.0010	0.03			
5	1549.5023	-3.24	0.0009	0.05			
6	1550.6394	-11.35	0.0010	0.09			
(DRIF	(DRIFT ANALYSIS)						
	PEAK No.:5		ED: 00:01:07				
REF	w∟: 1549.5015n	III REF POWE	er: -3.28dBm				

Drift analysis result

Fabry-Perot laser analysis

The evaluation parameters of a Fabry-Perot laser can be analyzed and displayed instantly from the measured optical spectrum.

Results include:

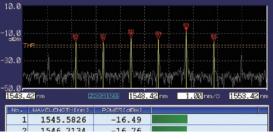
Center wavelength, total power, spectral-width (FWHM), mode spacing, etc.



Fabry-Perot laser analysis

Average measurement

The Average measurement obtains an average wavelength and power for each peak by repeating the measurement. This function helps reduce uncertainty of measurement for a modulated signal or unstable signals.



Average measurement screen

Data logging function

Up to 100001 points of measurement data per channel can be stored and displayed in tabular or graph form. It facilitates the long-term stability test and temperature cycle test.

649.543 8.628					
rm/D					GRAPH IT
49.583					HAUELEN
49,463					ORADH
					SINGLE
0.	UL (rm)		0.0 105/	D 100.0(s)	
No.	1544.9709	MAX-MINERRO 0.0191	-11.342	1,112	DATA FOR
2	1546.1012	0.0192	-11.715	1.184	SEC
3	1547.2337	0.0194	-8.682	1.688	DATA
4	1548.3673	0.0193	-9.470	0.335	FBS
5	1549.5026	0.0192	-3.225	0.662	DATA VIE
6	1550.6397	0.0192	-11.349	1.067	MODE MAX-
					-
		rerval: MINIMUM ration: 01:00:00	START: 201	8/11/01 18:03:47 8/11/01 19:03:47	SETUP
		LAPSED: 00:01:51			DATA ANALYSTS

User-friendly interfaces

Proven design and operability

The AQ6150 series' screen design and intuitive operability is inherited from YOKOGAWA's best-selling optical spectrum analyzer. This interface has been proven by a vast population of users on a global scale in areas such as R&D testing and troubleshooting in manufacturing.

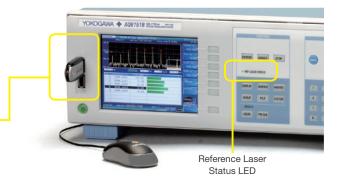
USB ports

- Compatible with USB data storage devices, mouse and keyboard.
- File function enables users to save data and screenshots to the internal memory or USB storage to use when creating test reports. Screenshots can also be saved by simply pressing the Print Screen button (PRT SCN) located on the front panel.



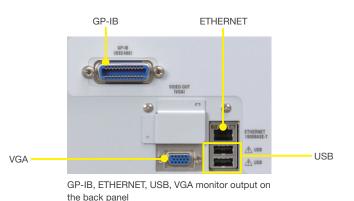
Four ports in total are available on front and rear panels

Easy-to-view bright color LCD



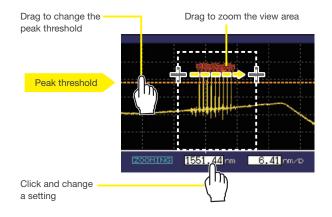
Data access through LAN

The standard LAN port allows convenient access to files stored in the internal memory as well as ability to remotely update the firmware from a PC.



Direct operation with mouse

- Using a USB mouse makes it easy and intuitive to change measurement conditions, execute an analysis, and modify the optical spectrum view.
- In the optical spectrum view, the waveform view area can be zoomed and shifted by a simple click and drag. The peak threshold line, threshold for peak detection, can also be moved in the same manner.



Applications

WDM transmission systems

In order to meet the rigorous demands of current and next generation communication networks, developers are constantly challenged to improve the efficiency and capacity of the transmission system. In response to these challenges, various techniques have been developed, such as minimizing channel spacing, maximizing the number of channels and transmission rate, using sophisticated modulation schemes, etc.

In WDM transmission system testing, high wavelength accuracy is required for testing the system's internal circuit boards such as laser modules and optical transceivers as well as the final output signal of the system, which may involve:

- Simultaneous measurement of multi channel and narrow spacing WDM system
- · Precise adjustment and inspection of laser sources
- · Measurement of modulated signals

Calibration of test systems

Due to the high accuracy of the AQ6150 series, it can be used for precision wavelength calibration applications including:

- · Calibration of optical spectrum analyzers
- Calibration of DFB lasers for optical amplifier test system.
- Calibration of tunable lasers for passive component test systems.



NOTE:

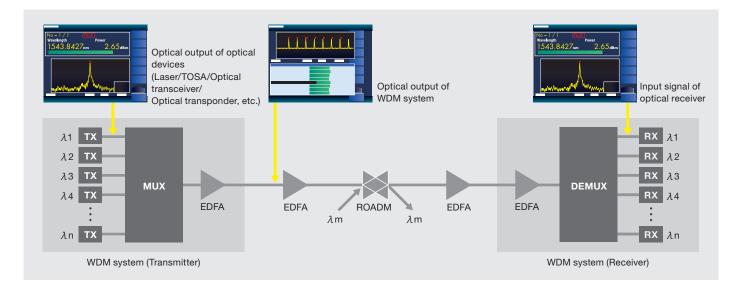
The AQ6370 Series Optical Spectrum Analyzer is recommended for measuring Side Mode Suppression Ratio (SMSR) of lasers and Optical Signal to Noise Ratio (OSNR) of WDM transmission systems.

Lasers/optical transceivers

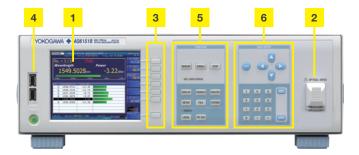
Testing of optical components used in WDM transmission systems such as laser devices, laser modules, and optical transceivers also requires high wavelength accuracy. These applications may include:

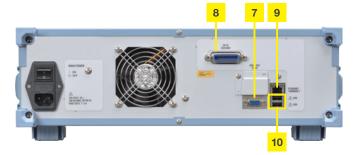
- · Precise adjustment and inspection of tunable lasers
- Modulated signal measurement of optical transceivers and transponders.
- Measurement of all channels of 40 G and 100 G optical transceivers with WDM technology.





Interfaces





8

1 Display

Displays measured waveforms, measurement conditions, measured values, etc.

2 OPTICAL INPUT

Connect the optical input signal here.

3 Soft key

Control the functions that are assigned to soft keys, which appear on the right of the LCD display.

4 USB port

Connect a USB storage medium, USB mouse, or USB keyboard.

5 FUNCTION

Set all features including measurement, setup, and display.



Enter measurement condition parameters and labels.

7 VIDEO OUT

Video signal (VGA) terminal Use this terminal to view the instrument screen on an external display.

GP-IB connector

Use this connector to control the instrument from a PC.

9 ETHERNET port

Use this port to connect the instrument to a network. (10/100/1000BASE-TX)

10 USB port

Connect a USB storage medium, USB mouse, or USB keyboard.

Principle

Michelson interferometer

Generate interference by changing the optical path length difference between the fixed mirror and the movable mirror. Then detect the interference signal with the optical receiver.

Fast Fourier transform (FFT)

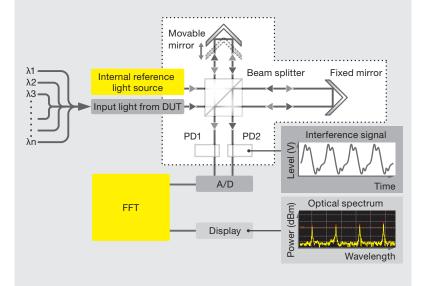
Convert the interference signal (interferogram) into the optical spectrum waveform.

Fast data processing

Analyze the given optical spectrum waveform. Then output the wavelength and power data of the input signal.

Real-time wavelength correction

Correct the measurement error by simultaneously measuring the interference signal of the reference wavelength while measuring the input signal.



Specifications

AQ6150B/AQ6151B

Items		Specifications							
Model		AQ6150B			AQ6151B				
		Standard (-10)	Extended (-20)	Wide range (-30)	Standard (-10)	Extended (-20)	Wide range (-30)		
Wavelength	Wavelength range	1270 to 1650 nm	1200 to 1700 nm	900 to 1700 nm	1270 to 1650 nm	1200 to 1700 nm	900 to 1700 nm		
Model Wavelength Wavelength Wave Wave Wave Wave Wave Wave Wave Wave	Wavelength accuracy ^{*1}	update rate: Normal) ±1.5 ppm (±2.3 pm at 1550 nm, update rate: Fast)		±0.7 ppm (1200 to 1700 nm, ±1 pm at 1550 nm, update rate: Normal), ±1.5 ppm (1200 to 1700 nm, ±2.3 pm at 1550 nm, update rate: Fast),	±0.2 ppm (±0.3 pm at 1550 nm, update rate: Normal) ±0.5 ppm (±0.8 pm at 1550 nm, update rate: Fast)		±0.2 ppm (1200 to 1700 nm, ±0.3 pm at 1550 nm, update rate: Normal), ±0.5 ppm (1200 to 1700 nm, ±0.8 pm at 1550 nm, update rate: Fast),		
				±1.5 ppm (900 to 1200 nm, ±1.4 pm at 900 nm)			±1.5 ppm (900 to 1200 nm, ±1.4 pm at 900 nm)		
	Minimum resolvable separation ^{*2,*3}		1550 nm, update ra : 1550 nm, update		1				
	Display resolution	0.0001 nm							
Power ^{*4}	Power accuracy*5	±0.5 dB (1550 nn	dB (1550 nm, –10 dBm)						
	Linearity ⁵ ±0.3 dB (1550 nm, –30 dBm or higher)								
	Polarization dependency ²	±0.5 dB (1550 nn	dB (1550 nm)						
	Display resolution	0.01 dB							
Maximum nu	umber of wavelengths	1024 (1 for Single-wavelength type)							
Minimum input power ^{4,6}		-40 dBm (1270 to 1600 nm), -30 dBm (1600 to 1650 nm)	-40 dBm (1200 to 1600 nm), -30 dBm (1600 to 1700 nm)	–40 dBm (1200 to 1600 nm), –30 dBm (900 to 1200 nm, 1600 to 1700 nm)	-40 dBm (1270 to 1600 nm), -30 dBm (1600 to 1650 nm)	-40 dBm (1200 to 1600 nm), -30 dBm (1600 to 1700 nm)	-40 dBm (1200 to 1600 nm), -30 dBm (900 to 1200 nm, 1600 to 1700 nm)		
Maximum in	put power	+10 dBm (total input power)							
Safe maximum input power		+18 dBm (total input power)							
Applicable of	optical fiber	SM (ITU-T G.652)							
Return loss*	2	35 dB							
Measureme	nt time ^{*7}	0.2 s or less (update rate: Fast), 0.3 s or less (update rate: Normal)							
Display ^{*8}		5.7-inch color LCD (640 × 480 dots)							
Data storage	е	Internal: 256 MB or more, External: USB							
Interfaces		GP-IB, ETHERNET, USB, VGA output							
Remote con	trol	GP-IB, ETHERNET							
Optical con	nector	FC/PC or SC/PC (AQ9441 Universal adapter)							
Warm-up tin	ne	60 minutes or more							
Power requi	rements	100 to 240 VAC, 50/60 Hz, approx. 100 VA							
Environmen	tal conditions	Performance guarantee temperature: +10 to +30°C, operating temperature: +5 to +35°C, storage temperature: -10 to +50°C, humidity: 20 to 85%RH (no condensation)							
Dimensions	and mass	Approx. 426 (W) × 132 (H) × 450 (D) mm (excluding protrusions), approx. 11 kg							
Safety stand	lards	EN61010-1							
	Laser	EN60825-1: 2014	, IEC60825-1: 200	7, GB7247. 1-2012 Class 1	CLASS 1 L	ASER PRODUCT	Complies with 21 CFR 1040.10 and 1040.11		
EMC	Polarization dependency ² Display resolution ximum number of wavelengths nimum input power ^{4,16} ximum input power e maximum input power e maximum input power e maximum input power olicable optical fiber turn loss ² asurement time ⁷ play ¹⁶ ta storage erfaces mote control tical connector rm-up time wer requirements vironmental conditions nensions and mass fety standards Laser C Emission Immunity HS	EN61326-1 Class EN61000-3-2, EN	A, EN55011 Class 161000-3-3	s A Group 1,	クラス1レー 1 送激光产 (EN 60825-	ーザ製品 品 1:2014)	except for deviations pursuant to Laser Notice No.50, dated June 24, 2007 2-9-32 Nakacho, Musashino-shi,		
	Immunity	EN61326-1 Table	2		(IEC 60825-	-1:2007, GB 7247.1-2012)	Tokyo 180-8750, Japan		
RoHS		EN50581							
Recommend	led calibration period	1 year							
Accessories	;	Power cord: 1, ru	bber feet: 1, CD-R	OM (user's manuals): 1, Gettin	g started guide: 1				

Accessories Power cord: 1, rubber teet: 1, CD-ROM (user's manuals): 1, Getting started guide: 1 *5: Line spectrum, CW, excluding polarization effects
*6: Single line input
*7: Single measurement, number of detected wavelengths 128 or less
*8: Liquid crystal display may include a few defective pixels (within 0.002% with respect to the total number of pixels including RGB). There may be a few pixels on the liquid crystal display that do not emit all the time or remains ON all the time. These are not malfunctions.

*1: Line spectrum, CW, constant polarization during measurement, vacuum wavelength, input power -30 dBm or higher, line separation 10 GHz or more (update rate: Normal) or 20 GHz or more (update rate: Fast) in case of multi-line measurement, excluding the influence of absorption of OH group, confidence level (k=3)

*2: Typical *3: Not valid for Single-wavelength type. Equal power lines input. *4: Update rate: Normal

Functions

Items	Specifications
Measurement	Single, repeat, average, drift, data logging
Measurement condition setup	Average count, air/vacuum wavelength, device type (CW/ modulated), measurement range, update rate
Display	Single-wavelength, multi-wavelength*, delta*, grid, spectrum (with zooming)*, wavelength axis units [wavelength (nm) /frequency (THz) /wave number (cm ⁻¹)], optical power units (dBm/mW/µW), center wavelength*, total power*, marker (up to 1024 points)*, label, power bar, warning messages, error messages, system information
Data analysis	Peak search*, FP-LD analysis*, drift analysis, WDM (OSNR) analysis
File	Saving/loading measured results (CSV), saving/loading setup parameters (binary), saving screen images (BMP), saving/loading logging data (BIN, CSV)
Remote control	Interface selection (GP-IB/Ethernet), TCP/IP configuration, remote monitor
Others	Internal reference light source status LED, optical power offset, parameter initialization, firmware updating

*Multi-wavelength type only

Ordering information

Model and suffix code

	Suffix	Descriptions		
		AQ6150B Optical Wavelength Meter		
		AQ6151B Optical Wavelength Meter		
Spec code	-10	Standard type (1270 to 1650 nm)		
	-20	Extended type (1200 to 1700 nm)		
	-30	Wide range type (900 to 1700 nm)		
Wavelength	-SW	Single-wavelength type		
detection	-MW	Multi-wavelength type		
Optical input	-FCC	FC/PC (AQ9441 Universal Adapter)		
connector	-SCC	SC/PC (AQ9441 Universal Adapter)		
Power cord	-D	UL/CSA standard and PSE compliant, 125 V		
	-F	VDE/Korean standard, 250 V		
	-R	Australian standard, 250 V		
	-Q	British standard, 250 V		
	-H	Chinese standard, 250 V		
	-N	Brazilian standard, 250 V		
	-T	Taiwanese standard, 125 V		
	-B	Indian standard, 250 V		
	Wavelength detection Optical input connector	Spec code -10 -20 -30 Wavelength detection -SW Optical input connector -SCC Power cord -D -F -R -Q -H -N -T		

Accessories (optional)

Model		Suffix	Descriptions
813917321			AQ9441 Universal Adapter
	Connector	-FCC	FC type
	type	-SCC	SC type
751535		-E3	Rack mount kit (inch type)



YOKOGAWA TEST & MEASUREMENT CORPORATION

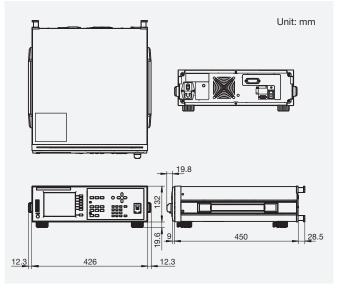
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Yokogawa's approach to preserving the global environment

- · Yokogawa's electrical products are developed and produced in facilities that have received ISO14001 approval.
- In order to protect the global environment, Yokogawa's electrical products are designed in accordance with Yokogawa's Environmentally Friendly Product Design Guidelines and Product Design Assessment Criteria.

This is a Class A instrument based on Emission standards EN61326-1 and EN55011, and is designed for an industrial environment.

Operation of this equipment in a residential area may cause radio interference, in which case users will be responsible for any interference which they cause.

Any company's names and product names mentioned in this document are trade names. trademarks or registered trademarks of their respective companies.

NOTICE

• Before operating the product, read the user's manual thoroughly for proper and safe operation

https://tmi.yokogawa.com/

YMI-KS-MI-SE06

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Revisions

Bulletin AQ6150SR-01EN 4th Edition

There are some revisions in this brochure. Please be aware of the changes below.

- 1. Specifications (page 11)
 - Dimensions and mass •

On the brochure: Approx. 426 (W) × 132 (H) × 450 (D) mm (excluding protrusions) Revision: Approx. 426 (W) × 132 (H) × 459 (D) mm (excluding protrusions)

- 2. Ordering information (page 12)
 - Model and suffix code •

On the brochure:

Models	Suffix	Descriptions
AQ6150B		AQ6150B Optical Wavelength Meter
AQ6151B		AQ6151B Optical Wavelength Meter
Optical input	-FCC	FC/PC (AQ9441 Universal Adapter)
connector	-SCC	SC/PC (AQ9441 Universal Adapter)
Power cord	-D	UL/CSA standard and PSE compliant, 125 V
	-F	VDE/Korean standard, 250 V
	-R	Australian standard, 250 V
	-Q	BS/Singaporean standard, 250 V
	-H	Chinese standard, 250 V
	-N	Brazilian standard, 250 V
	-T	Taiwanese standard, 125 V
	-B	Indian standard, 250 V

R	evision:		
Models S		Suffix	Descriptions
AQ6150B			AQ6150B Optical Wavelength Meter
AQ6	6151B		AQ6151B Optical Wavelength Meter
	Optical input	-FCC	FC/PC (AQ9441 Connector Adapter)
	connector	-SCC	SC/PC (AQ9441 Connector Adapter)
	Power cord	-D	UL/CSA standard and PSE compliant, 125 V
		-F	VDE/Korean standard, 250 V
		-R	Australian standard, 250 V
		-Q	BS/Singaporean standard, 250 V
		-H	Chinese standard, 250 V
		-N	Brazilian standard, 250 V
		-T	Taiwanese standard, 125 V
		-B	Indian standard, 250 V
		-U	IEC Plug Type B, 250 V

Accessories (optional)

On the brochure:

On the brochure	:		Revision:			
Models	Suffix	Descriptions	Models	Suffix	Descriptions	
813917321		AQ9441 Universal Adapter	 AQ9441		AQ9441 Connector Adapter	
Connector	-FCC	FC type	Optical input	-FC	FC type	
type	-SCC	SC type	connector	-SC	SC type	



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