YOKOGAWA ◆

AQ1200 MFT-OTDR

MULTI FIELD TESTER OTDR

[**All-in-One
handheld optical fiber network test tool**]

Seven models offer different wavelength and dynamic range combinations

QUALITY ▪ INNOVATION ▪ FORESIGHT

Bulletin AQ1200-13EN

www.tmi.yokogawa.com
Test & Measurement Instruments

Multifunctional Handheld OTDR Offering Powerful Test Features & Excellent

Compact chassis yet fully equipped with field testing functions

The AQ1200 Multi Field Tester OTDR is a compact and lightweight handheld OTDR optimized for the installation and maintenance of optical fiber cables. Designed with ease of use in mind to simplify field testing, improve work efficiency and ensure qualify results. Seven models are offered, each with unique wavelength(s) based on their specific application.

[Top view]

Visible Light Source*
For visually identifying fiber under test and locating a break point within the near-end dead zone.

DC power connector

USB TYPE A

Optical power meter port*
Optical power meter and a continuous wave optical output function which can work independently.
The optical power meter can be chosen from three types in accordance with your application.

OTDR, Light source*

Wave length:
Port2 : 1310/1550(AQ1200A/E, AQ1205A/E/F)
    1625nm**(AQ1200B), 1650nm**(AQ1200C)
Port3 : 1625nm**(AQ1200E), 1650nm**(AQ1205F)

[Bottom view]

USB TYPE B (mini USB)
OTDR can be controlled with a PC via USB.

LAN*
OTDR can be controlled with a PC via Ethernet network.
Test network connections sending PING without an PC.

*: Option
**: Built-in Filter

[Front view]

Soft keys
To select the menu on the right side of the display.

Bumper
Shock protection

Hand belt
To hold with one hand during operation and also serves as a convenient carrying handle

LCD display 5.7inch TFT LCD display

MENU key
Moves to main menu

REAL TIME and AVG key
To start or stop the OTDR measurement (Real-time and Averaging)

Rotary Knob
To move the cursor and change parameters.
Press to select parameters.

Arrow keys/Enter keys
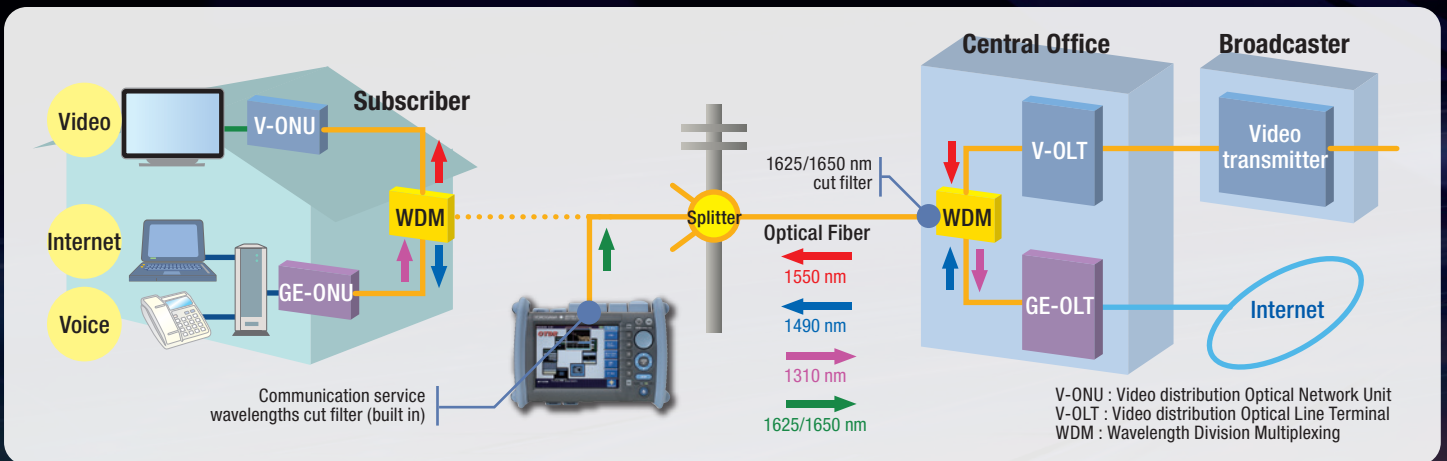To move cursor and change parameters within a dialogue box.

SETUP key
To show the setup menu.

ESC key
To abort operations or escape from menus

Power key
Power ON/OFF

Network Diagram

Central Office   Broadcaster

Subscriber

Video — V-ONU
Internet — GE-ONU
Voice

WDM

Splitter

1625/1650 nm cut filter

Optical Fiber
- 1550 nm
- 1490 nm
- 1310 nm
- 1625/1650 nm

Communication service wavelengths cut filter (built in)

WDM

V-OLT — Video transmitter

GE-OLT — Internet

V-ONU : Video distribution Optical Network Unit
V-OLT : Video distribution Optical Line Terminal
WDM : Wavelength Division Multiplexing

MULTI FIELD TESTER
MFT-OTDR AQ1200

Product Lineup

AQ1200A	**1310/1550 nm**	Standard model with the same wavelengths used for communication services. Applicable for installation and maintenance
AQ1200B	**1625 nm**	Models with a wavelength dedicated for maintenance of live fibers. A built-in cut filter isolates the maintenance wavelength from the communication wavelength in order to perform accurate measurements in live networks.
AQ1200C	**1650 nm**	
AQ1200E	**1310/1550 nm 1625 nm**	These tri-wavelength models has two ports. One port offers the communication wavelengths while the other port is dedicated for the maintenance wavelength. Thus this model is ideal for use in both installation and maintenance applications.
AQ1205A	**1310/1550 nm**	This High dynamic range model can accurately measure the trace even after the splitter in a PON system.Thus this standard wavelength model is highly suited for high port count PON networks with up to 64 ports splitters.
AQ1205E	**1310/1550 nm 1625 nm**	These tri-wavelength models offers high dynamic range and has two ports. One port offers the communication wavelengths while the other port is dedicated for the maintenance wavelength. Thus this model is ideal for use in both installation and maintenance applications. The high dynamic range feature can accurately measure the trace even after the splitter in a PON system. Thus this is highly suited for high port count PON networks with up to 64 ports splitters.
AQ1205F	**1310/1550 nm 1650 nm**	

* : Please make sure that the measurement signal does not affect the communication services before use, by implementing a measurement wavelength cut filter in the line under test or otherwise.

PON Measurement Capability

In Passive Optical Network (PON) System used in FTTH (Fiber To The Home) it is important to quickly and correctly find a fault in the drop cable that is installed after the splitter.

The AQ1200 MFT OTDR's PON measurement mode (*) is a mode optimized for the measurement of PON with a high-port-count optical splitter and can ensure a quality waveform even if there is a big loss of optical splitter in the line.

With a short dead zone, the AQ1200 can distinguish connectors placed as closely as 0.75 m in FTTx, home or office networks.
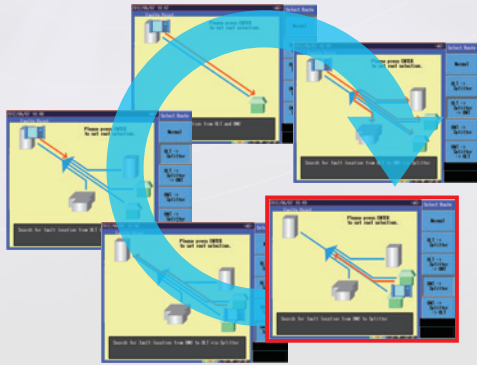
• **Example of measurement over a 64 port splitter**
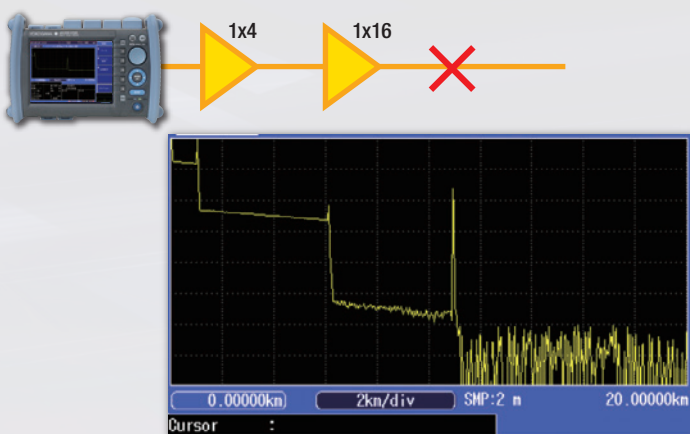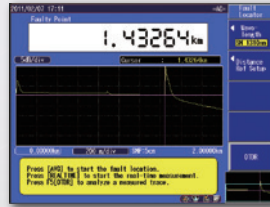

• **Event dead zone 0.75 m**
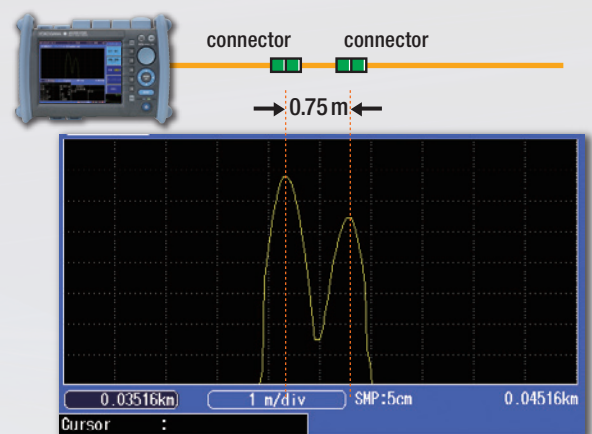
Fault locator

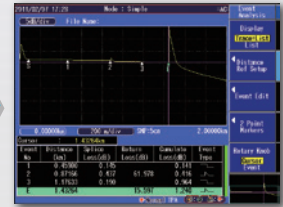### Find a fiber break point easily and rapidly

Pressing one button initiates a measurement and event search and then clearly indicates the location of a fiber break.
Waveform analysis can be done by simply switching over to OTDR function.
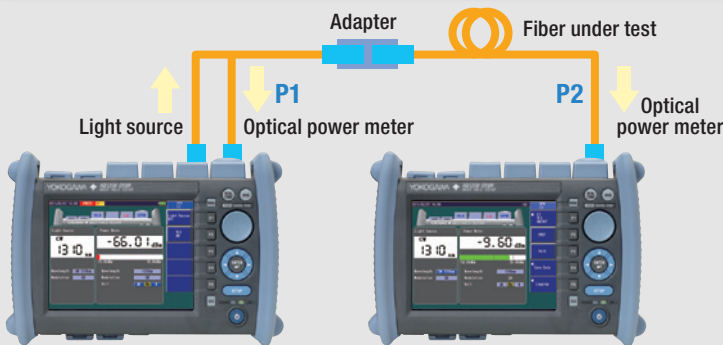
Select the Structure

Fault locator screen

In-depth waveform analysis

Waveform analysis screen of OTDR function

Light Source & Optical Powermeter

Manual Loss test using light source & optical powermeter [1],[2]

After adjusting the optical output power (P1) at the end of launch fiber, measure the output power of fiber under test (P2).

Total fiber loss = P1 - P2 (dB)

High power measurement [2]

Allow to measure the high power output of optical amplifier, which is used for video services, such as CATV, and long distance transmission.

[1] : /SLT option is required to use this function.   [2] : /HLT option is required to use this function.

Auto Loss Test*

Loss measurement with LS & OPM interlock

AQ1200's light source can transmit wavelength information, so that AQ1200's optical powermeter can make measurements at a right wavelength at the other end. Moreover, the AQ1200A's light source and optical powermeter can switch between two wavelengths (1310 and 1550 nm) automatically; therefore, the optical powermeter can make measurements at right wavelengths, changing the wavelength along with the light source.

Measurement result storage and report output

Measurement results can be saved in the internal storage or external USB storage media, and the measurement report can be generated in CSV format.

* : /SLT or /HLT option is required to use this function.

Multicore Loss Test*

Work as Master & Slave using the communication fiber

The master unit can share the project information such as the core number table and measurement conditions with the slave unit by sending them through the communication fiber in the cable under test.

* : /SLT or /HLT option is required to use this function.

Core number table

Measurement result list
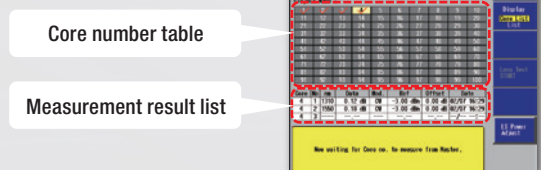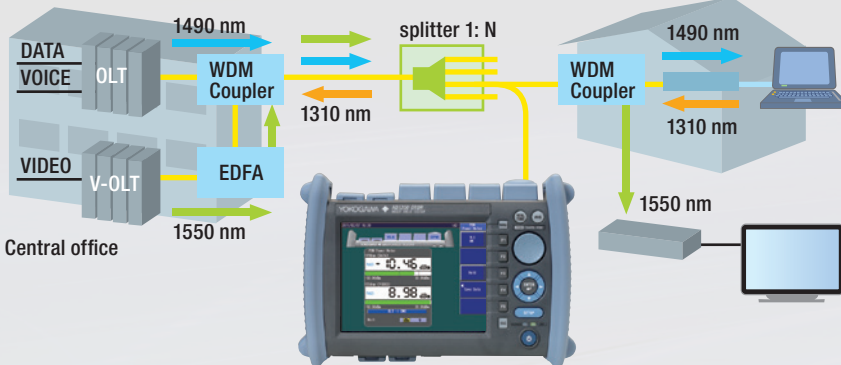

Multicore measurement result screen

PON Optical Powermeter*

Central office

Simultaneous 1490 & 1550 nm measurement

The PON power meter can measure the optical power both at 1490 nm and at 1550 nm simultaneously by separating those wavelengths.
Suitable tool for measuring the optical power of OLT and V-OLT.

* : /PPM option is required to use this function.

Optical power at 1490 nm
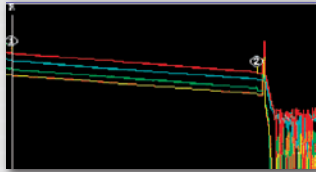
Optical power at 1550 nm

PON optical powermeter screen

Trace Analysis Functions

For Evaluation of Multicore Fiber
— Multi Trace Analysis

Up to four traces can be overlaid on the display for analysis and comparison.

This is useful for evaluating connection point locations and loss after installing multicore fiber.
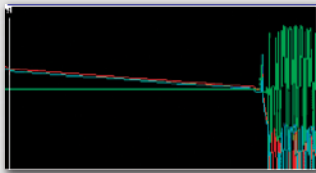
For Accurate Splice Loss Measurement by Bi-directional Testing
— 2 Way Trace Analysis

Merges the two traces measured from both directions and finds the correct splice loss.

Connection loss in lines where optical fibers of differing backscatter coefficients are connected can differ depending on the direction. In such cases, you can accurately determine the loss by measuring in both directions and taking an average.

For Evaluation of Aged Deterioration
— Differential Trace Analysis

Displays the difference between two specified traces.

Makes it simple to check aged deterioration of fibers or connection points, or fluctuation in loss between fibers, and other phenomena.
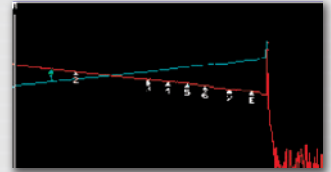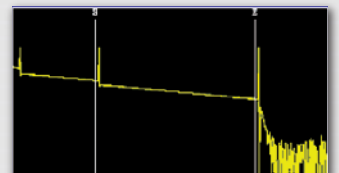
For Evaluation of Total Return Loss
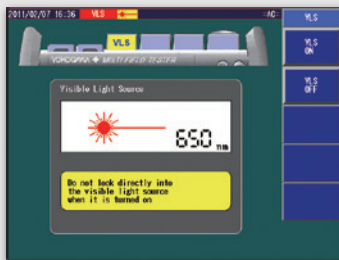— Section Analysis

Finds the total return loss in specific portions of the fiber.

This type of evaluation is often requested because the multiple reflections from optical fiber networks can affect signal light from transmitters (cable TV etc.).

Visible Light Source*

Visual fault location and Fiber identification

The visible light source enables to identify a single core out of multicore fiber and find a break point in a launch area visually. This feature works even when OTDR is in use, so that you can search for a next fiber to test, while OTDR is measuring one fiber.

* : /VLS option is required to use this function.

Visible light source screen

Multi Fiber Measurement Function
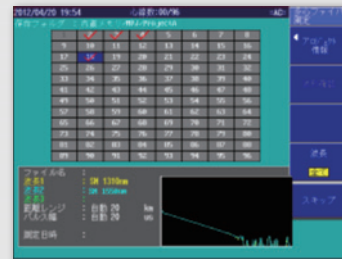
The Multi fiber measurement function automatically performs measurements and data-fi ling according to a pre-established file name table.
At worksite, you can execute it by simply selecting a fiber number in the table.
The saved waveform can be easily shown in the preview window by selecting the core number in the table.
The OTDR Project File Editor included in AQ7932 Emulation Software greatly saves time to create fi le name table.

Macro Bending Function (not available for the AQ1200B,AQ1200C)

If there is a bend in the optical fiber, the long wavelength loss is higher at the location of the bend. This function uses this characteristic to locate macro bends by measuring the same line at multiple wavelengths.

[Splicing loss]

[Bending loss]

Remote Control Software

Remote Control using the same GUI

The AQ1200 can be remotely controlled from a personal computer (PC) through Ethernet* or USB interface.
The remote control software displays a front panel image of AQ1200 on PC, so you can control the AQ1200 with mouse in the same manner as operating the actual instrument.

* : /LAN option is required to use this function.

Video Fiber Inspection Probe

Fiber end inspection

With a video fiber inspection prove connected to USB interface, the AQ1200 can show an image of the fiber end on the screen to visually inspect scratches and dirtiness. The video image can be saved in the internal memory or external USB storage media.

* : Recommended probe: DI-1000-B2 (Lightel)

Fiber Inspection Probe screen

IP Test*

IPv4 PING

For testing network connections by sending PING through the optional LAN interface, no need to bring a PC.
Variable frame length and transmission intervals

* : /LAN option is required to use this function.

PING Test screen

Data Analysis and Report Creation Tool

• AQ7932 OTDR Emulation Software (Sold Separately)

The AQ7932 is an application software that performs analysis of trace data measured by the AQ1200 MFT-OTDR and creates reports on a PC. The report creation wizard function makes this task simple. AQ1200 MFT-OTDR data can be easily loaded onto a PC using USB memory or storage function.
(The AQ1200 MFT-OTDR is supported from software version 4.1. Please make sure of the version information before use.)

■ Trace Analysis

You can edit event search conditions, approximate curve line secngs, and other analysis conditions, and repeat the analysis. Operation is also easy. Simply click the function icon.

■ Variety of Analysis Functions

Display up to eight traces on screen, and perform a variety of analyses including multi trace analysis and differential trace analysis for comparing recent waveforms with old ones, and use the 2 way trace analysis function for analyzing average values of data measured from both ends of optical fiber.

■ Creating Reports

You can compile traces and measured values of trace files and creates a report.
Reports can be created easily by just following the step-by-step instructions in the report wizard and saved in Excel or CSV format.

• Functionality

Data format: .SOR (Bellcore), .SOR (Telcordia [AQ1200/AQ7275/AQ7270/AQ7260]), TRD(AQ7260), .TRB(AQ7250), .BMP(BMP), .CSV (Data CSV), .CSV (Event List CSV)

Report output: CSV file, XLS file, and print out

• PC requirements (Software and Hardware)

Software

OS: Microsoft Windows 2000, Microsoft Windows XP, Microsoft Windows Vista*, Windows 7
Excel: Microsoft Excel 2000 or later (when the XLS file output function is used)
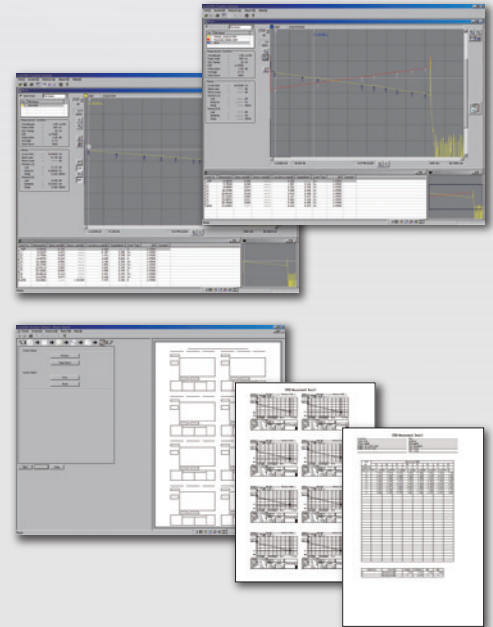
Hardware

Clock speed: Environment in which the OS operates smoothly.
HD capacity: 20 MB or more space required at the time of installation
Memory capacity: 128 MB or more (256 MB or more recommended)
Display: Resolution of 1024 × 768 pixels or better
Disc drive: CD-ROM drive

Microsoft Windows 2000, Windows XP, Windows Vista and Windows 7 are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries. The TM and ® symbols are not used to indicate registered trademarks and trademarks in this document.
(*) Microsoft Windows Vista is to be supported in Ver. 3.03 and later.

Comon Specifications

Horizontal Axis Parameters

Sampling resolution	5 cm, 10 cm, 20 cm, 50 cm, 1 m, 2 m, 4 m, 8 m, 16 m, 32 m
Readout resolution	1 cm (Min.)
Number of sampled data	Up to 128,000 points (Firmware Rev2.01 or later)
Group refractive index	1.30000 to 1.79999 (in 0.00001 steps)
Unit of distance	km, kf or miles
Distance measurement accuracy	
	± 1 m + Measurement distance $\times 2 \times 10^{-5} \pm$ sampling resolution Excluding IOR uncertainty

Vertical Axis Parameters

Vertical axis scale	0.2 dB/div, 0.5 dB/div, 1 dB/div, 2 dB/div, 5 dB/div, 7.5 dB/div
Readout resolution	0.001 dB (Min.)
Loss measurement accuracy	
	± 0.05 dB/dB (When the measuring loss is 1 dB or less, the accuracy is within ± 0.05 dB.)

OTDR Measurement Function

Distance measurement	Displays up to eight digits of the relative one way direction between two arbitrary points on the trace.
Loss measurement	Displays one way loss in steps of 0.001 dB to a maximum of 5 digits. Displays the one way loss, loss per unit length, and splice loss between any arbitrary points on the trace.
Return loss measurement	Measures return loss and total return loss of a fiber cable or between two arbitrary points on the trace.

OTDR Analysis Functions

Analysis functions	Section analysis

Internal Memory

Memory capacity	1000 waveforms or more Can store measured waveforms and measurement conditions

Display

Display	5.7 inch color TFT LCD
Total number of displayed pixels*	
	640 (horizontal) × 480 (vertical) pixels

* : The LCD may contain some pixels that are always ON or OFF (0.002% or fewer of all displayed pixels including RGB), but this is not indicative of a general malfunction.

External Interface

USB	USB1.1 Type A and Type B, one each
	Type A: For external memory, external printer, and fiber inspection probe
	Type B (mini): For connecting to an external PC for remote control or access to the OTDR's internal memory.

File Formats

File formats	Read: SOR, SET (AQ7270/AQ7275/AQ1200)
	Write: SOR (Telcordia), SET, CSV, BMP, JPG, PNG

Specifications per Model

Model name	AQ1200A	AQ1200B*1	AQ1200C*1	AQ1200E*1	AQ1205A	AQ1205E*1	AQ1205F*1
Measured wavelength (nm)	1310±20(typ)*2/ 1550±20(typ)*2	1625±10	1650±5*3, 1650±10*4	1310±20(typ)*2/ 1550±20(typ)*2, 1625±10	1310±20(typ)*2/ 1550±20(typ)*2	1310±20(typ)*2/ 1550±20(typ)*2, 1625±20(typ)	1310±20(typ)*2/ 1550±20(typ)*2, 1650±5*3, 1650±10*4
Optical Port	PORT2			PORT2, 3	PORT2	PORT2, 3	
Measured fiber	SM(ITU-T G.652)						
Distance range(km)	0.5, 1, 2, 5, 10, 20, 50, 100, 200, 300, 400, 512*11				0.5, 1, 2, 5, 10, 20, 50, 100, 200, 300, 400, 512		
Pulse width(ns)	3, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000*11				3, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000		
Event Dead zone (typ.)*7	0.75m*8						
Attenuation Dead zone (typ.)*9	4m/5m	7m		4m/5m, 7m	4m/5m	4m/5m, 7m	
Dynamic range(dB) (typ.)	34/32*5	33*5	34*5	38/36,36*5	42/40*6	42/40,38*6	42/40,37*6
Loss measurement accuracy	±0.05dB or ±0.05dB/dB						
Optical connector	Universal Adapter SC, FC						
Output power control*10	---	Normal / Low			---	Normal / Low	
Laser safety standard	Class 1 or Class 1M						

*1 : Pulse light output poert at 1625 nm and 1650 nm, +15 dB or less, built-in 1310 & 1550 nm cut filter.
*2 : 25 nm is guaranteed
*3 : At a point -20 dB from the pulse light output peakvalue (measured after 30 minutes or more form power-on at an ambient temperature of 23°C)
*4 : At a point -60 dB from the pulse light output peakvalue (measured after 30 minutes or more form power-on at an ambient temperature of 23°C)
*5 : SNR=1, Pulse width: 10 µs, measurement time: 3 minutes, When angled -PC connectors are used, each dynamic range decreases by 0.5 dB, Guaranty value [dB]; 32/30 (AQ1200A), 30 (AQ1200B), 30 (AQ1200C), 32/30, 30 (AQ1200E)
*6 : SNR=1, Pulse width: 20 µs, measurement time: 3 minutes, When angled -PC connectors are used, each dynamic range decreases by 0.5 dB, Guaranty value [dB]; 40/38 (AQ1205A), 40/38, 36 (AQ1205E), 40/38, 30 (AQ1205F)
*7 : Pulse width 3 ns, return loss: 55 dB or more
*8 : 0.8 m is guaranteed
*9 : Pulse width 10 ns, Return loss 55 dB or more, at a point where the backscatter level is within ±0.5 dB of the normal value.
*10 : At 1625 nm and 1650 nm
*11 : FirmWare Rev2.01 or later

Note : Specifications are at 23°C ±2°C unless otherwise noted.

Specifications per Option

• Light source & Optical powermeter option

Option		Optical Power Meter (/SPM)	Standard (/SLT)	High Power (/HLT)	PON (/PPM)	Stabilized Light Source (/SLS)
Optical Power meter	Wavelength setting	850/1300/1310/1490/1550/1625/1650 nm or 800 to 1700 nm (1 nm steps) or CWDM wavelength (1270 to 1610 nm, 20 nm step)			1310/1490/1550 nm	---
	Applicable fiber	SM (ITU-T G 652), GI (50/125 µm)			SM (ITU-T G 652)	---
	Power range — CW	+10 to -70 dBm		+27 to -50 dBm*3	+10 to -70 dBm*1, +27 to -50 dBm*2	---
	Power range — CHOP	+7 to -60 dBm		+24 to -50 dBm*3	---	---
	Noise level	0.5 nW (-63 dBm, 1310 nm)		50 nW (-43 dBm, 1310 nm)	0.5 nW (-63 dBm, 1310 nm), 50 nW (-43 dBm, 1550 nm)	---
	Uncertainty under standard conditions*4	±5%			±0.5 dB	---
	Readout resolution	0.01				---
	Level unit	Absolute: dBm, mW, µW, nW Relative: dB				---
	Modulation mode	CW, CHOP (270 Hz/1 kHz/2 kHz)				---
	Average function	1, 10, 50 and 100 times				---
Light source	Wavelength	---	1310/1550 ±0.25 nm (AQ1200A/E, AQ1205A/E/F), 1625 ±10 nm (AO1200B/E), 1625 ±25 nm (AO1205E), 1650 ±5 nm*5, 1650 ±10 nm*6 (AQ1200C, AQ1205F)			---
	Optical output level	---	-3 dBm ±1 dB			---
	Level stability*7	---	±0.05 dB (1310/1550 nm, AQ1200A/E, AQ1205A/E/F), ±0.15 dB (1625/1650 nm, AQ1200B/C/E, AQ1205E/F)			---
	Modulation mode	---	CW, 270 Hz, 1 kHz, 2 kHz			---
	Applicable fiber	---	SM (ITU-T G.652)			---
Memory and logging function		---	Measurement data storage: 10 to 1000 data, Logging interval: 0.5, 1, 2, 5, or 10 sec.			
Auto loss test function		---	Loss measurement with light source and optical powermeter interlock		---	

*1 : at 1310/1490 nm   *2 : at 1550 nm   *3 : 1300 to 1600 nm
*4 : Power level: 100 µW(-10dBm); CW, Wavelength: 1310 ±20 nm (1550 nm ±10 nm for 1550 nm setting of /PPM), Spectral width: 10 nm or less (1310 nm), ambient temperature: 23 ±2°C, Optical fiber: SM (ITU-T G.652), Optical connector: FC/PC, Wavelength setting error: 0.5 nm or less, excluding aging (add 1% one year after calibration)
*5 : At a point -20 dB from the pulse light output peak value (measured after 30 minutes or more from power-on, at ambient temperature of 23°C)
*6 : At a point -60 dB from the pulse light output peak value (measured after 30 minutes or more from power-on, at ambient temperature of 23°C)
*7 : Constant temperature within 23°C ±2°C ; CW (15 min.)

• Visible light source (VLS) option

Optical connector	2.5 mm ferrule type
Center wavelength	650 nm ±20 nm
Optical output level	-3 dBm or more (peak)
Modulation mode	CHOP Approx. 2 Hz
Laser class	3R

VISIBLE LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT
可见激光辐射
避免眼睛受到直接照射
3R类激光产品
(IEC/EN60825-1:2007, GB7247.1-2012)
MAX OUTPUT   5mW
WAVELENGTH 650±20nm
PULSE DURATION CW

• Ethernet interface option

Interface	10BASE T / 100BASE TX
Functions	PING test, PC remote control

General Specifications

Item		Specification
Environmental conditions	Storage temperature	-20 to 60°C
	Operating temperature	0 to 45°C (0 to 40°C when AC adapter is being used); (0 to 35°C when battery is being charged)
	Humidity	20 to 85% RH (no condensation)
Power requirements		100 to 240 VAC, 50/60 Hz
Battery pack		Run time: 6 hours*1, Recharge time: 5 hours*2
Dimensions		217.5 (W) × 157 (H) × 74 (D) mm, excluding projections
Mass		Approx. 1 kg, including battery pack
Compliant standards	Laser safety	EN 60825-1:2014 Class 1*3, Class 1M (IEC60825-1: 2007, GB7247.1-2012)*4, 21CFR1040.10*5
	Safety	EN61010-1
	Emissions	EN61326-1 class A, EN55011 class A, group 1
	Immunity	EN61326-1 Table 2 (for industrial locations)

*1 : In case measurement is performed for 30 seconds every 3 minutes, with no options installed, in power save mode (LCD brightness: Power save, Screen saving: ON).

*2 : at temperature of 23°C, power OFF

*3 :
CLASS 1 LASER PRODUCT
(EN 60825-1:2014)

EN 60825-1:2014

*4 :
INVISIBLE LASER RADIATION 不可见激光辐射
DO NOT VIEW DIRECTLY WITH 勿通过光学仪器直接观看光束
OPTICAL INSTRUMENTS   1M类激光产品
CLASS 1M LASER PRODUCT
(IEC 60825-1:2007, GB 7247.1-2012)

IEC60825-1:2007, GB7247.1-2012

*5 :
Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No.50, dated June 24, 2007
2-9-32 Nakacho, Musashino-shi, Tokyo 180-8750, Japan

21CFR1040.10

Model and suffix code

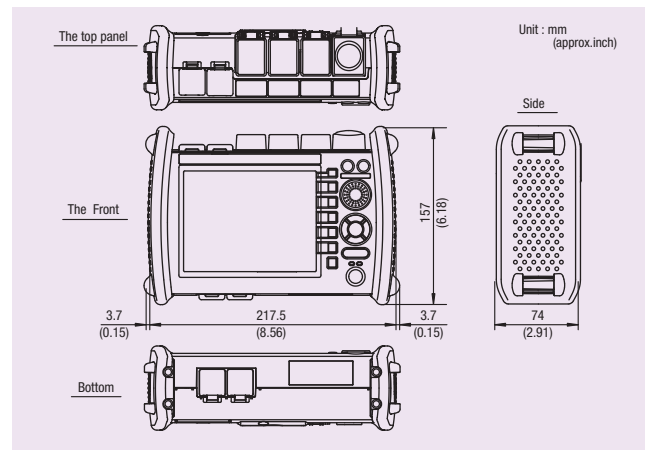| Models	Suffix code	Descriptions
AQ1200A		1310/1550 nm
AQ1200B		1625 nm
AQ1200C		1650 nm
AQ1200E		1310/1550, 1625 nm
AQ1205A		1310/1550 nm, High Dynamic Range
AQ1205E		1310/1550, 1625 nm High Dynamic Range
AQ1205F		1310/1550 nm High Dynamic Range, 1650 nm
Language	-HE	English
	-HC	Chinese/English
	-HM	Chinese
	-HK	Korean/English
	-HR	Russian/English
Power cord	-D	UL/ CSA standard, 125 V
	-F	VDE standard, 250 V
	-R	Australian standard, 250 V
	-Q	BS/Singaporean standard, 250 V
	-H	Chinese standard, 250 V
	-P	Korean standard, 250 V
	-T	Taiwanese standard, 125 V
	-N	Brazilian standard, 250 V
Optical connector	-USC	SC type
	-UFC	FC type
	-ASC	SC/Angled-PC type
light source & optical power meter	/SLT	Stabilized light source & Standard optical power meter
	/HLT	Stabilized light Source & High power optical power meter
	/PPM	Light source & PON Power meter
	/SLS	Stabilized light source
	/SPM	Standard optical power meter
Visible light source	/VLS	Optical connector: 2.5φ ferrule
PON measurement*1	/PN	PON measurement mode
Ethernet	/LAN	10BASE-T/100BASE-TX (PING test, Remote control)
Shoulder belt	/SB	Shoulder belt

*1 : Only for AQ1200A. AQ1200B/C/E and AQ1205A/E/F come equipped this function.
The mode is optimized for PON measurement.

Accessories (optional)

Model	Suffix code	Descriptions
SU2006A		Soft carrying case
735480 (For optical powermeters)	-SCC	Connector adapter (SC)
	-FCC	Connector adapter (FC)
735481 (For optical powermeters)	-LMC	Ferrule adapter (φ1.25)*1
	-SFC	Ferrule adapter (φ2.5)*1
SU2005A (For OTDR, LS and PON Power meter)	-SCC	Universal adapter (SC)
	-FCC	Universal adapter (FC)
739874 (AC adapter)	-D	UL/CSA standard, 125 V
	-F	VDE standard, 250 V
	-R	Australian standard, 250 V
	-Q	BS/Singaporean standard, 250 V
	-H	Chinese standard, 250 V
	-P	Korean standard, 250 V
	-T	Taiwanese standard, 125 V
	-N	Brazilian standard, 250 V
739882		Battery pack (Spare)
B8070CY		Shoulder belt

*1 : The ferrule adapter has no mechanism to lock the connected fiber.
Please be cautious of the connection, especially when emitting high power light.

Dimensions

Unit : mm (approx.inch)

The top panel

The Front

157 (6.18)

Side

Bottom

3.7 (0.15) 217.5 (8.56) 3.7 (0.15) 74 (2.91)

Application Software

Model	Suffix code	Descriptions
735070-	-EN	AQ7932 OTDR Emulation Software (Ver. 4.1 or later) Display English

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.

NOTICE
● 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.