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

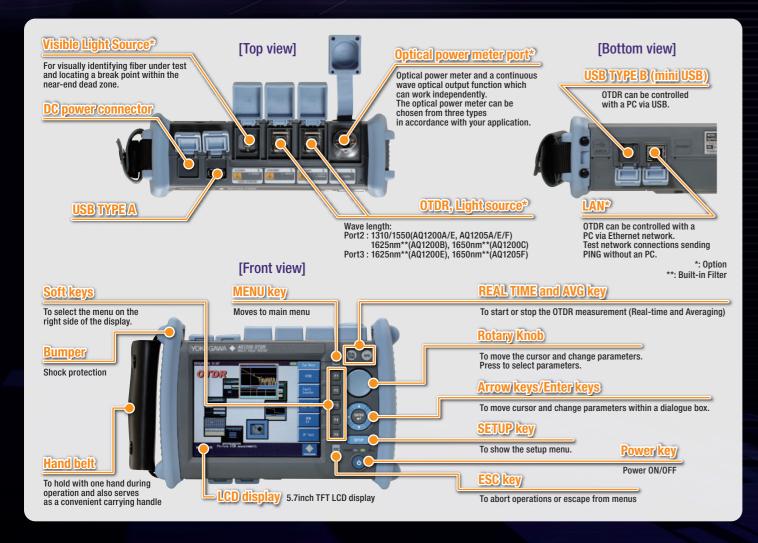
QUALITY INNOVATION FORESIGHT

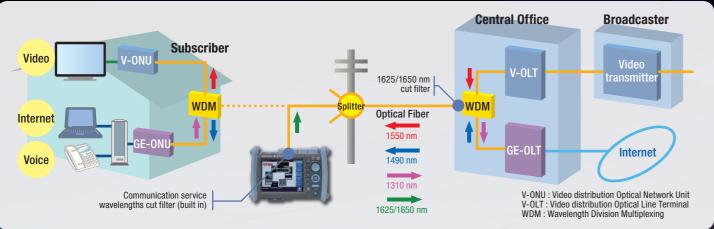
Multifunctional Handheld OTDR Offering Powerful Test Features & Excellent Operability

MULTI FIELD TESTER A01200

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.





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. | |
| AQ1200C | 1650 nm | A built-in cut filter isolates the maintenance wavelength from the communication wavelength in order to perform accurate measurements in live networks. | |
| 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. | |
| AQ1205F | 1310/1550 nm 1650 nm | 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. | |

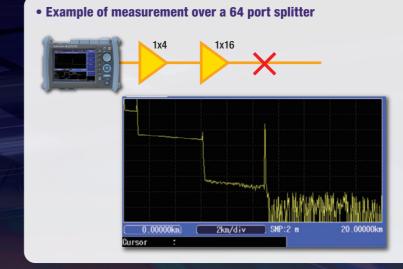
^{*:} Please make sure that the measurement signal does not affect the communication services before use, by implementing a measurement wavelength cut filter in the line under test or otherwise.

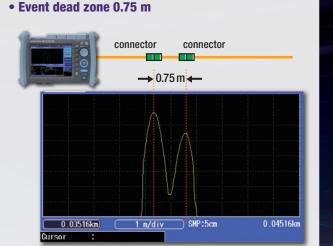
PON Measurement Capability

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.





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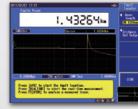
Fault locator



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.

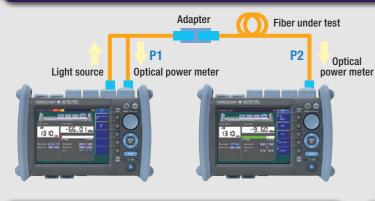
Waveform analysis can be done by simply switching over to OTDR function.



Fault locator screen

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.

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

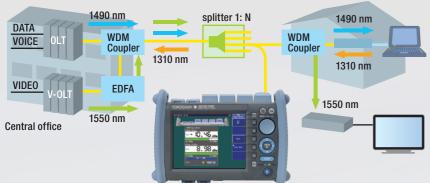
The master unit can share the project information such as the core number table and measurement conditions with the slave unit by sending them through the communication fiber in the cable under test.

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



Multicore measurement result screen

PON Optical Powermeter*



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

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

For Evaluation of Aged Deterioration

- Multi Trace Analysis

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

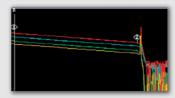
This is useful for evaluating connection point locations and loss after installing multicore fiber.

Displays the difference between two

deterioration of fibers or connection

points, or fluctuation in loss between

specified traces.



Differential Trace Analysis

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

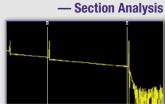
direction. In such cases, you can accurately determine the loss by measuring in both directions and taking an average.

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For Evaluation of Total Return Loss

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*

fibers, and other phenomena

Makes it simple to check aged

Visual fault location and Fiber identification

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



Visible light source screen

If there is a bend in the optical

characteristic to locate macro

This function uses this

at multiple wavelengths.

fiber, the long wavelength loss is

higher at the location of the bend.

bends by measuring the same line

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.

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.

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 Inspection Probe screen

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)

IP Test*



PING Test screen

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.

The AQ7932 is an application software that performs analysis of trace data measured by the AQ1200 MFT-0TDR 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)

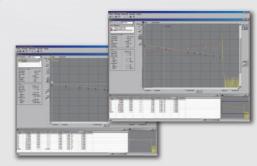
Hardware

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

5 cm, 10 cm, 20 cm, 50 cm, 1 m, 2 m, 4 m, 8 m, Sampling resolution

16 m, 32 m

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

0.2 dB/div. 0.5 dB/div. 1 dB/div. 2 dB/div. 5 dB/div. Vertical axis scale 7.5 dB/div

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 Loss measurement

Readout resolution

Displays up to eight digits of the relative one way direction between two arbitrary points on the trace. 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

Can store measured waveforms and measurement

1000 waveforms or more

Display

5.7 inch color TFT LCD Display

Total number of displayed pixels*

640 (horizontal) × 480 (vertical) pixels

*: The LCD may contain some pixels that are always 0N or 0FF (0.002% or fewer of all displayed pixels including RGB), but this is not indicative of a general malfunction.

External Interface

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

MULTI FIELD TESTER A01200

Specifications per Model

| Model name | AQ1200A | AQ1200B*1 | AQ1200C*1 | AQ1200E*1 | AQ1205A | AQ1205E*1 | AQ1205F*1 |
|--------------------------------|---|-----------|---------------------|---|------------------------|-----------------------|------------------------|
| | 1310±20(typ)*2/ | 1625±10 | 1650±5*3, 1650±10*4 | 1310±20(typ)*2/ | 1310±20(typ)*2/ | 1310±20(typ)*2/ | 1310±20(typ)*2/ |
| Massured wayslangth (nm) | 1550±20(typ)*2 | | | 1550±20(typ)*2, | 1550±20(typ)*2 | 1550±20(typ)*2, | 1550±20(typ)*2, |
| Measured wavelength (nm) | | | | 1625±10 | | 1625±20(typ) | 1650±5 ^{*3} , |
| | | | | | | | 1650±10 ^{*4} |
| Optical Port | | PORT2 | | PORT2, 3 | PORT2 | POR | T2, 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, 100 | 00, 2000, 5000, 10000 |), 20000 |
| Event Dead zone (typ.)*7 | | 0.75m'°s | | | | | |
| Attenuation Dead zone (typ.)*9 | 4m/5m | 7 | m / | 4m/5m, 7m | 4m/5m | 4m/5 | m, 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 | | | | | Norma | I / Low |
| Laser safety standard | Class 1M | | | | | | |

*1 : Pulse light output poert at 1625 nm and 1650 nm, +15 dB or less, built-in 1310 & 1550 nm cut filter.

*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 uncless 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) |
|------------------|---|------------|---|---|--|---|-----------------------------------|
| | Wavelength setting 850/1300/1310/1490/1 | | 550/1625/1650 nm or 800 to 1700 nm (1 nm steps) | | 1310/1490/1550 nm | | |
| | wavelength settin | 9 | or CWDM w | avelength (1270 to 1610 nm, | 20 nm step) | | |
| | Applicable fiber | | SI | И (ITU-T G 652), GI (50/125 µ | I (ITU-T G 652), GI (50/125 μm) | | |
| | Power range | CW | +10 to | -70 dBm | +27 to -50 dBm*3 | +10 to -70 dBm ⁺¹ , +27 to -50 dBm ⁺² | |
| | 1 ower runge | CHOP | +7 to | -60 dBm | +24 to -50 dBm*3 | | |
| Optical Power | 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) | |
| meter | Uncertainty under standard co | nditions*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 | | | |
| | Wavelength | | | | , | 205A/E/F), 1625 ±10 nm (A01200B/E) *5, 1650 ±10 nm*6 (AQ1200C, AQ1205F | ' I |
| Light | Optical output lev | el | | -3 dBm ±1 dB | | | |
| Light | Level stability*7 | | | | ±0.05 dB (1310/1550 nm, A ±0.15 dB (1625/1650 nm, A | Q1200A/E, AQ1205A/E/F), AQ1200B/C/E, AQ1205E/F) | |
| | Modulation mode - | | | CW, 270 Hz, 1 kHz, 2 kHz | | | |
| | Applicable fiber | | | SM (ITU-T G.652) | | | |
| Memory | and logging functio | n | | Measurement data storage: 10 to 1000 data, Logging interval: 0.5, 1, 2, 5, or 10 sec. | | | ec. |
| Auto loss | 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 可见渺光辐射 | |
| 避免眼睛受到直接照射 | |
| 3R类激光产品 (JEC/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 | |
|----------------|---------------------|--|--|
| | Storage temperature | -20 to 60°C | |
| Environmental | Operating | 0 to 45°C (0 to 40°C when AC adapter is being used); | |
| conditions | temperature | (0 to 35°C when battery is being charged) | |
| | Humidity | 20 to 85% RH (no condensation) | |
| Power requiren | nents | 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 | |
| Differsions | | projections | |
| Mass | | Approx. 1 kg, including battery pack | |
| | Laser safety | Class 1 M (IEC/EN60825-1:2007, GB7247.1-2012)*3, | |
| Compliant | Laser salety | 21CFR1040.10°4 | |
| standards | Safety | EN61010-1 | |
| Stanualus | 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).

21CFR1040.10

IEC/EN60825-1, GB7247.1

Model and suffix code

| Models | | Suffix o | 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 | | |
| | -HE | | | English | | |
| | -HC | | | Chinese/English | | |
| Language | -HN | 1 | | Chinese | | |
| | -HK | | | Korean/English | | |
| | -HR | | | Russian/English | | |
| | T-I | D | | UL/ CSA standard, 125 V | | |
| | -1 | F | | VDE standard, 250 V | | |
| | -1 | -R | | Australian standard, 250 V | | |
| Power cord | -1 | -Q | | BS/Singaporean standard, 250 V | | |
| Power coru | -1 | -H | | Chinese standard, 250 V | | |
| | -1 |) | | Korean standard, 250 V | | |
| | -T | | | Taiwanese standard, 125 V | | |
| | -N | | | Brazilian standard, 250 V | | |
| | -USC | | | SC type | | |
| Optical connect | tor | -UFC | | FC type | | |
| | | -ASC | | SC/Angled-PC type | | |
| | | /SLT | | Stabilized light source & Standard optical power meter | | |
| light source & | | /HLT | | Stabilized light Source & High power optical power meter | | |
| ~ | noto | /PPM | | Light source & PON Power meter | | |
| optical power meter /SLS /SPM | | /SLS | | Stabilized light source | | |
| | | | Standard optical power meter | | | |
| Visible light source /VLS | | 3 | Optical connector: 2.5¢ ferrule | | | |
| PON measurem | nent* | 1 /P | N | PON measurement mode | | |
| Ethernet | t /LAN | | /LAN | 10BASE-T/100BASE-TX (PING test, Remote control) | | |
| Shoulder belt | | | /SB | Shoulder belt | | |
| AC adapter | AC adapter /AC1 | | /AC1 | Attach 739872 AC adapter*2 | | |

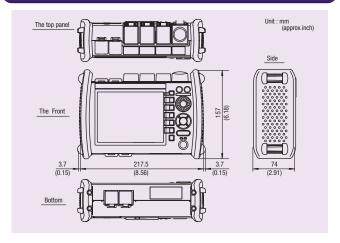
^{*1 :} Only for AQ1200A. AQ1200B/C/E and AQ1205A/E/F come equipped this function. The mode is optimized for PON measurement

Accessories (optional)

| Model | Suffix code | Descriptions |
|------------------------------------|-------------|--------------------------------|
| SU2006A | | Soft carrying case |
| 735480 (For optical powermeters) | -SCC | Connector adapter (SC) |
| 735460 (For optical powermeters) | -FCC | Connector adapter (FC) |
| 735481 (For optical powermeters) | -LMC | Ferrule adapter (φ1.25)*1 |
| 733461 (For optical powermeters) | -SFC | Ferrule adapter (φ2.5)*1 |
| SU2005A | -SCC | Universal adapter (SC) |
| (For OTDR, LS and PON Power meter) | -FCC | Universal adapter (FC) |
| | -D | UL/CSA standard, 125 V |
| | -F | VDE standard, 250 V |
| | -R | Australian standard, 250 V |
| 739873 (AC adapter) | -Q | BS/Singaporean standard, 250 V |
| 739073 (AC adapter) | -H | Chinese standard, 250 V |
| | -P | Korean standard, 250 V |
| | -T | Taiwanese standard, 125 V |
| | -N | Brazilian standard, 250 V |
| 739872 (AC adapter) *2 | -F | VDE standard, 250 V |
| 100012 (AO auapidi) | -Q | BS/Singaporean 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



Application Software

| Model | Suffix code | ffix 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.

- 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.

OKOGAWA

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

^{*2 :} For the countries that require CE marking.

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Revisions

Bulletin AQ1200-13EN 3rd Edition

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

1. Model and suffix code

On the brochure:

| Model | Suffix code | Descriptions |
|------------|-------------|----------------------------|
| AC adapter | /AC1 | Attach 739872 AC adapter*2 |

^{*2:} For the countries that require CE marking.

Revision:

Suffix code /AC1 is no longer required for all countries.

2. Accessories (optional) (page 8)

On the brochure:

| Suffix code | Descriptions |
|-------------|--|
| -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 |
| -F | VDE standard, 250 V |
| -Q | BS/Singaporean standard, 250 V |
| | -D -F -R -Q -H -P -T -N |

^{*2:} For the countries that require CE marking.

Revision:

| Model | Suffix code | Descriptions |
|------------------------|-------------|--------------------------------|
| 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 |