



Smart and fully-featured OTDR

AQ1210 Series
Optical Time Domain Reflectometer

Precision Making

Bulletin AQ1210-01EN

Due to the widespread use of mobile devices and the Internet, the importance of optical fiber networks to accommodate the increasing communication traffic is growing rapidly.

Installation and maintenance of optical fiber networks require a measuring instrument with high productivity and an intuitive interface as well as high quality measurement results and high reliability.

Yokogawa, as a 100+ year instrumentation manufacturer, delivers OTDRs (Optical Time Domain Reflectometer) based on our measuring technologies developed since the early days of optical fiber communication and 38+ years of experience in optical test & measurement solutions for real world lab and field testing.

Responding to the growing needs for reliable and ease-of-use field test instruments for installation and maintenance of fiber optic networks, the Yokogawa AQ1210 series OTDR is designed to empower field technicians to make fast and precise measurements with confidence.

The AQ1210 OTDR delivers:

Reliability – Robust design for operating under harsh field conditions.

Technology – Dual operation mode by multi-touch touchscreen and hard-key buttons. Fully automatic measurement and easy-to-read analysis reports through new software applications.

Operability – Lightning startup time. Multi-tasking operation to enhance productivity. Immediate reporting via wireless connectivity.

Complete testing in a compact package

Smart and fully-featured OTDR

Compact body with long-lasting battery operation

- Footprint approx. size of a "Mini" tablet, weight of 1 Kg (2.2 Lbs.)
- 10 hours battery operation
- USB power feeding
 *USB power adapter (Type-C) is required for battery charging (sold separately).

Touchscreen and hard-key buttons

The AQ1210 features a capacitive multi-touch touchscreen, 5.7-inch LCD, and a "field use" friendly rotary dial.

Multiple functions in one unit



Multi Field Tester OTDR
AQ1210

Enhanced OTDR performance

The AQ1210 provides:

- Measurement of PON systems with up to 128 splits
- High-speed real-time measurement
- Smart mapper function
- Multi-fiber measurement
- Fiber Surface Test function (optional)

Connectivity

Remote access is possible via Wi-Fi or ETHERNET connection.





Model lineup

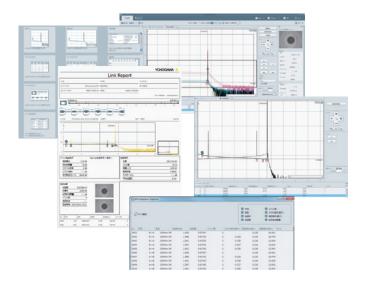
OTDR lineup

Six models offer different wavelength and application combinations

| Model | Number of wavelengths | Dynamic range (dB) | | | | Test application | | |
|---------|-----------------------|--------------------|-------------|-------------|-------------|------------------|-------------|----------|
| | | 1310 (nm) | 1550 (nm) | 1625 (nm) | 1650 (nm) | Installation - | Maintenance | |
| | | 1010 (1111) | 1000 (IIII) | 1020 (1111) | 1000 (1111) | | Dark | Live |
| AQ1210A | 2 | 37 | 35 | | | ✓ | ✓ | |
| AQ1215A | 2 | 42 | 40 | | | ✓ | ✓ | |
| AQ1210E | 3 | 37 | 35 | 35 | | ✓ | ✓ | ✓ |
| AQ1215E | 3 | 42 | 40 | 39 | | ✓ | ✓ | ✓ |
| AQ1215F | 3 | 42 | 40 | | 37 | ✓ | ✓ | ✓ |
| AQ1216F | 3 | 42 | 40 | | 40 | ✓ | ✓ | ✓ |

AQ7933 Emulation Software

Powerful post-processing software. Analyzing/editing trace data on a PC. The Report Creation Wizard function provides a step-by-guide for users to generate comprehensive reports in a printable format and MS Excel format.



Optical Power Meter & Checker



Measures and displays optical power of a light source as an absolute/relative value for testing transmitter/network performance. Measurement results can be saved for reference. Invaluable test instrument during installation and maintenance. Calibrated and selectable wavelength setting. Single mode and Multi-mode measurement ready. Continuous wave and modulated wave detection capability.

*/SPM, /HPM, or /PPM option is required.



Two selections of optical power sensors are available, which are optical power meter and optical power checker*, offering two levels of accuracy and functionality to best suit the user's needs/budget.

*/PC option is required.

Visible Light Source



Visible, continuous/modulated red light laser. Invaluable test instrument for checking continuity of patch cords, launch fibers, or short fiber trunks. Breaks and bends in the fiber can easily be identified visually as the visible light exits the fiber at such fault events.

*/VLS option is required.

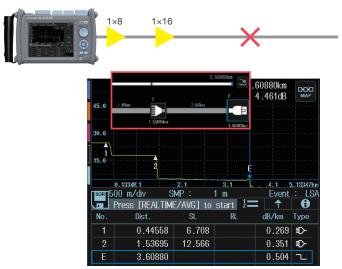
Measurement applications

PON Optimized

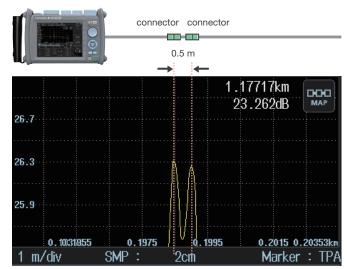
Excellent hardware performance and advanced analysis algorithm enable the AQ1210 to accurately characterize Passive Optical Networks (PON) through high-port-count splitters (up to 1×128)*.

The AQ1210 assists beginner/expert users in simply configuring OTDR measurement settings based on PON topology information for optimal results. Short event dead zone and high sampling resolution enable users to detect near-end location of connectors that are as close as 0.5 meters (<20 inches)*.

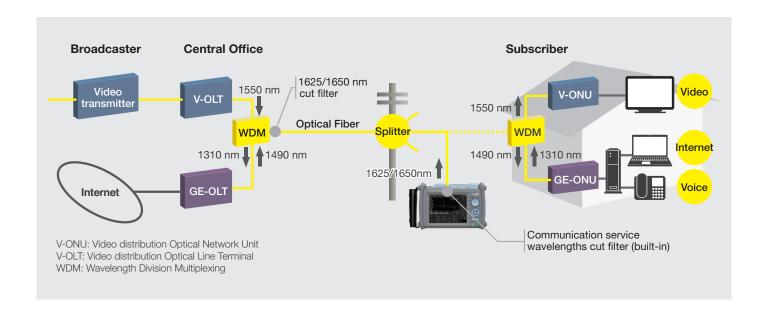
*AQ1215 models.



Example of measurement over a 128-port splitter



Event dead zone 0.5 m



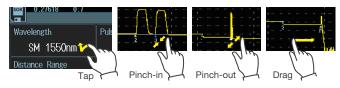
Fast and friendly functionality, all at your fingertips!

Dual-operation mode

Touchscreen and hard-key buttons

Tap, swipe, pinch or press. Choose between the high resolution 5.7-inch multi-touch capacitive touchscreen or the robust hard-key buttons in any combination desired. OTDR operations have never been easier!





Long battery operation time

Over 10 hours!

No worrying about running out of battery power during your daily work. The AQ1210's high capacity Li-lon polymer battery will last for 10 hours under the Telcordia standard conditions.



Quick boot-up

Under 10 seconds!

From completely OFF to measurement ready in under 10 seconds!

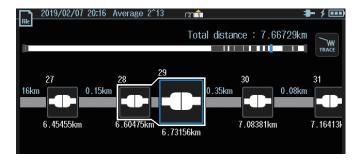


Smart Mapper

Single button measurement. Comprehensive network characterization. Easy to read report

Measurement acquisitions with multiple pulse widths and smart-algorithm enable users to detect and comprehensively characterize network events by pressing one single button. Simple, icon-based map view for easy interpretation of network events. Immediate PASS/FAIL judgment based on user-defined thresholds.

Easily toggled trace view for manual supplementary analysis.

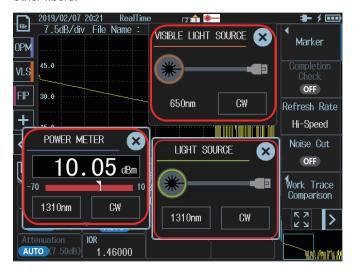


Multi-tasking

Enhancing productivity

Managed by a highly efficient operating system, multiple functions can be performed simultaneously.

Now, users can perform OTDR measurements on a particular fiber core while simultaneously checking the power level, connector surface quality and visible fiber ID/bending on three other fibers.



High-speed, high-performance real-time measurement

When detecting/identifying the position of a fiber end point or bend of an installed optical fiber network, a user, according to the operating environment, can choose among the two modes: the high-speed mode with less measuring time and the high accuracy mode that is capable of reproducing a high-quality waveform.



Multi-Fiber Project

Database view. Organized. Quick preview of network characteristics

OTDR-based application in a database view.

Guiding users in tracking multi fibers measurements in

sequence.
OTDR trace, power level and connector surface image of a particular fiber core are organized as one group.

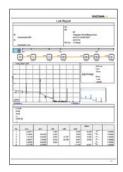
With PASS/FAIL judgment, fiber core performance is easily characterized.

| 201 | 9/02/0 | 7 19:53 | | | 211 | 00/9 | 96 | 1 |
|--------|----------|-----------|----------|------|-----|----------|--------|----------|
|)es | st. Fold | ler Int.M | lemory/M | IPJ/ | | | | ■ |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | \ Ne |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Proje |
| | 18 | - | 20 | 21 | 22 | 23 | 24 | |
| | 26 | Realtime | 28 | 29 | 30 | 31 | 32 | |
| \Box | 24 | - | 20 | 37 | 38 | 39 | 40 | |
| | FIP | 43 | 0PM | 45 | 46 | 47 | 48 | |
| T٠ | - 00 | \vdash | UZ | 53 | 54 | 55 | 56 | Wavele |
| | 58 | Average | 60 | 61 | 62 | 63 | 64 | wavele |
| | 66 | | 68 | 69 | 70 | 71 | 72 | |
| | 74 | 75 | 76 | 77 | 78 | 79 | 80 | |
| | 82 | 83 | 84 | 85 | 86 | 87 | 88 | ٥., |
| | 90 | 91 | 92 | 93 | 94 | 95 | 96 | Ski |
| Van | ne: / [| _abel: | | | | | | |
| [] | | [FIP] | [0PM] | | | <u> </u> | 1550nm | |
| | | | | | | 2 | | |

PDF reporting



Built-in post-processing software for generating OTDR reports in PDF format. Flexible configuration of report template to meet users' report requirements.



File transfer and remote control

File transfer

The AQ1210's data files can be transferred to a smartphone or tablet through Wi-Fi using a web browser or the OTDR data transporter, or a Windows™ PC through Wi-Fi or LAN using a web browser or the AQ7933 Emulation software.

Remote control

The AQ1210 can be controlled remotely by a smartphone or tablet using a web browser and by a Windows™ PC using a web browser, the AQ7933 Emulation software, or remotecontrol commands through Wi-Fi or LAN.



Note. The USB connection is also available for the file transfer and remote control with a Windows™ PC. A USB-Wi-Fi dongle is required for Wi-Fi connection, and a USB-LAN adapter is required for LAN connection. Please consult with our sales representatives for details.

Connector quality assurance

Using a video fiber inspection probe*, fiber connector surface is visualized for inspection of scratches and dirt. The Fiber Surface Test function (option) can automatically analyze

scratches and dirt and makes PASS/FAIL judgment based on IEC61300-3-35 compatible or arbitrary decision criteria.

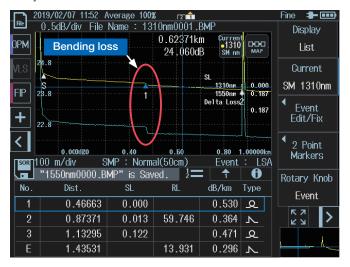
*Recommended probe: DI-1000-B2 (Lightel)



Convenient functionality for fast diagnosis of network problems

Macro bending detector

Macro bending events along a fiber under test can be identified and located automatically by OTDR measurements using multiple wavelengths trace comparison and event analysis based on user-defined thresholds.



Advanced trace analysis

Multi-trace analysis

Up to four traces can be overlaid on the display for analysis and comparison. This is useful for evaluating the locations and loss of connections after installing multiple fibers.

2-way trace analysis

Averages the two traces measured from one end of fiber link and the other to find the connection loss properly and accurately. When only measured from one end, the connection loss may be shown incorrectly due to the difference in the backscatter coefficient between the connected fibers.

Differential trace analysis

Displays the difference between two specified traces. Makes it simple to check aging of fibers or connection points, or variation in loss among fibers, and other phenomena.

Section analysis (Return loss)

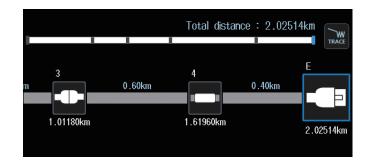
Finds the total return loss in specific section of fiber link. It is often required because the multiple reflections from optical fiber networks can affect the optical communication signal from transmitters of CATV for instance.

OTDR view mode





The OTDR view can be switched between the trace and the map by simply tapping the icon. The trace is a traditional view with an OTDR waveform and event markers, and the map is an icon-based view for easy interpretation of network events, which is also used for the Smart mapper function.



Enlarging the trace window

By simply tapping the dedicated icon, the trace display window can be enlarged for easy viewing and manipulation.



Direct data saving

Simply pressing "Direct save" icon, measured data can be saved in SOR, PDF, or both formats according to users' prior selection.



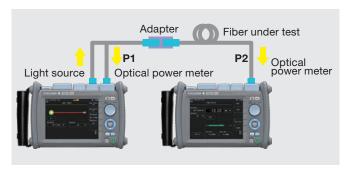
Optical loss test using light source & optical power meter

Optical loss test is performed by adjusting the optical output power (P1) at the end of launch fiber and measuring the output power of fiber under test (P2) afterward.

Total fiber loss = P1 - P2 (dB)

Auto loss test function

The AQ1210 can transmit the wavelength information of light source to the other AQ1210 placed at the other end to set the same wavelength for the optical power meter, and they are capable of switching the wavelengths (1310 and 1550 nm) automatically; therefore, the loss measurements can always be performed at right wavelengths */SPM or /HPM option is required.



High power measurement

The high power optical power meter (/HPM option) can measure the high optical power up to +27 dBm. It allows to measure video services and long distance transmission lines where an optical amplifier is used to boost the optical signal power.

Multi-fiber loss test

The Multi-fiber loss test function incorporates two AQ1210s as master and slave through the communication fiber in the cable under test. They share a test project information including fiber numbers to be tested and measurement conditions, so that you can ensure the measurement is performed properly for each fiber of the cable under test.

*/SPM or /HPM option is required.



PON power measurement

Simultaneous power measurement at 1490 & 1550 nm

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

*/PPM option is required.



Specifications

OTDR

| Items | | Specifications | 5 | | | | | | |
|-----------------------------------|---------------------------|---|---|---------------------------|-------------------------|--------------------------------|-------------------|--|--|
| Model | | AQ1210A | AQ1215A | AQ1210E | AQ1215E | AQ1215F | AQ1216F | | |
| Wavelength (nm) | | | | | | 1310 ±25/1550 ±25, 1650 ±25 | | | |
| Number of optic | al ports | 1 | | 2 (Port 2: 1625 nm, in | cluding a filter) | 2 (Port 2: 1650 nm, ir | cluding a filter) | | |
| Applicable fiber | | SM (ITU-T G.652) | | | | | | | |
| Distance range | (km) | 0.1 to 256 | | | | | | | |
| Pulse width (ns) | | 5 to 20000 | 5 to 20000 3 to 20000 5 to 20000 3 to 20000 | | | | | | |
| Event dead zon | e (m) *1,*8 | 0.75 | 0.5 | 0.75 | 0.5 | | | | |
| Attenuation dea | d zone (m) *2,*8 | 4 | 2.5 | 4 | 2.5 | | | | |
| PON dead zone | (m)*3 | 35 | 30 | 35 | 30 | | | | |
| Dynamic range | (dB) *4,*8 | 37/35 | 42/40 | 37/35, 35 | 42/40, 39 | 42/40, 37 | 42/40, 40 | | |
| Loss measurem | ent accuracy *5 | ±0.05 dB/dB | ±0.03 dB/dB | ±0.05 dB/dB | ±0.03 dB/dB | | | | |
| Optical return lo accuracy | ess measurement | ±2 dB | | | | | | | |
| Number of sam | oling points | max. 256000 | | | | | | | |
| Sampling resolu | ition | min. 5 cm | min. 2 cm | min. 5 cm | min. 2 cm | | | | |
| Minimum reado | ut resolution | Horizontal axis | 1 cm, vertical a | xis: 0.001 dB | | | | | |
| Distance unit | | km, mile, kft | | | | | | | |
| Distance measu | rement accuracy | \pm (0.75 m + measured distance \times 2 \times 10 ⁻⁵ + sampling resolution) | | | | | | | |
| Group refractive | index | 1.30000 to 1.79999 (0.00001 intervals) | | | | | | | |
| Optical connect | or | SC, FC, LC, or SC angled-PC | | | | | | | |
| OTDR function Measurement items | | Distance, loss, return loss, return loss between two arbitrary points, dB/km | | | | | | | |
| | Analysis | Multi-trace analysis, two-way trace analysis, differential trace analysis, section analysis, auto event search, pass/fail judgment, fiber surface test (option) | | | | | | | |
| | Other functions | Multi-fiber project, rerouted fiber comparison, work completion notice, smart mapper, remote control, web server, report generation | | | | | | | |
| Light source | Output power | -3 dBm ±1 dB | | | | | | | |
| function | Output power stability *7 | ±0.05 dB (1310 nm, 1550 nm), ±0.15 dB (1625 nm, 1650 nm) | | | | | | | |
| | Modulation mode | CW, 270 Hz, 1 kHz, 2 kHz | | | | | | | |
| | Optical output port | OTDR port | | | | | | | |
| Laser class | | Class 1M (IEC 60825-1: 2007, GB 7247.1-2012), Class 1 (EN 60825-1: 2014) | | | | | | | |
| Display *9 | | 5.7-inch color | ΓFT LCD (resolut | tion: 640 × 480, multi-to | ouch capacitive touchso | reen) | | | |
| Interfaces | | USB 2.0 type-A \times 2: USB mass storage device, fiber inspection probe, USB dongle (LAN, WLAN), USB 2.0 type-C \times 1: DC power supply, storage, remote control | | | | | | | |
| Data storage | Storage | Internal: ≥1000 traces, external: USB storage | | | | | | | |
| | File format | Write: SOR, CS | SV, SET, SMP, BN | MP, JPG, report Read: | : SOR, SET, SMP | | | | |
| Power requirem | ents*10 | USB power supply (Type-C), DC 5 V ±5%, max. 3 A | | | | | | | |
| Battery ^{*8} | | Type: Lithium ion polymer Operation time: 10 hours or more (Telcordia GR-196-CORE Issue 2, September 2010), Recharge time: 5 hours (power-off state) | | | | | | | |
| Environmental conditions | | Operating temperature: -10 to 50°C (10 to 35°C when charging the battery), operating humidity: 5 to 90%RH (non-condensing), storage temperature: -20 to 60°C, storage humidity: 0 to 90%RH (non-condensing), altitude: 4000 m, dust and drip protection: IP51 equivalent ⁻¹² | | | | | | | |
| EMC*11 | Emission | EN 61326-1 Class A, EN 55011 Class A Group1 | | | | | | | |
| Immunity | | EN 61326-1 Table2 | | | | | | | |
| Laser safety standard**11 | | EN 60825-1: 2014, IEC 60825-1: 2007, GB 7247.1-2012, FDA 21CFR1040.10 and 1040.11 | | | | | | | |
| Environmental regulation standard | | EN 50581 | | | | | | | |
| Dimensions | | Approx. 210 mm (W) × 148 mm (H) × 69 mm (D) (excluding projections) | | | | | | | |
| Weight | | Approx. 1 kg (including battery) | | | | | | | |

^{*1:} Minimum pulse width, return loss: ≥55 dB, group refractive index: 1.5, at



^{1.1.} Nimithin pulse width, feurnioss. 253 db, group refractive index. 1.5, at 1.5 dB below the unsaturated peak level.
*2: Pulse width: 10 ns, at 1310 nm, return loss: ≥55 dB, group refractive index: 1.5, at a point where the backscatter level is within ±0.5 dB of the normal level.

^{3:} Pulse width: 100 ns (AQ1210A, AQ1210E), 50 ns (AQ1215A, AQ1215E, AQ1215F, AQ1216F), at 1310 nm, for non-reflective fiber with a loss of 13 dB.

^{*4:} Pulse width: 20000 ns, measurement time: 3 minutes, SNR=1, decrease by 0.5 dB with an angled-PC connector. *5: ±0.05 dB for a loss of 1 dB or less.

^{*6:} At 20 dB below the spectral peak of pulsed optical output, at 23°C, after

^{*7:} Constant temperature, for 5 minutes after 5 minutes warm up.

^{*8:} Typical.
*9: 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.
*10: Require approx. 3 amperes for recharging during operation, approx.

² amperes for recharging in power-off state.

*11: With Optical power meter and Visible light source option

*12: All the rids are being closed.

Optical Power Meter (/SPM, /HPM, /PPM) and Power Checker (/PC)

| Items | | Specifications | | | | |
|--------------------|-------|-----------------------------------|-----------------------------|--|------------------------------------|--|
| Model | | Standard (/SPM) High Power (/HPM) | | PON (/PPM) | Power Checker (/PC)*4 | |
| Wavelength setting | | 800 to 1700 nm | 800 to 1700 nm | 1310, 1490, 1550 nm | 1310, 1490, 1550, 1625, 1650 nm | |
| Power range CW | | -70 to +10 dBm | -50 to +27 dBm*1 | -70 to +10 dBm (1310, 1490 nm) -50 to +27 dBm (1550 nm) | -50 to -5 dBm*5 | |
| | СНОР | -70 to +7 dBm | -50 to +24 dBm*1 | _ | _ | |
| Noise level*2 | | 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*3 | | ≤±5% | | ≤±0.5 dB | ±0.5 dB*6 | |
| Applicable fib | er | SM (ITU-T G.652), GI | (50/125 µm) | SM (ITU-T G.652) | | |
| Readout resol | ution | 0.01 dB | | | | |
| Level unit | | Absolute: dBm, mW, µ | | | | |
| Modulation m | ode | CW, 270 Hz, 1 kHz, 2 | | | | |
| Averaging | | 1, 10, 50, 100 times | _ | | | |
| Data save | | 100 data per file (up to | | | | |
| Data logging | | Logging intervals: 0.5, | | | | |
| Optical connector | | SC, FC, 2.5 mm diam | | | | |
| Functions | | Auto loss test, multi-fil | | | | |

- *1: 1300 to 1600 nm
- *2: At 1310 nm
- *3: CW, 1310 ±2 nm (Standard, High Power, PON at 1310), 1550 ±2 nm (PON at 1550 nm), spectral width: 10 nm or less, input power: 100 µW (-10 dBm), SM (ITU-T G.652), FC/PC connector, wavelength setting: measured wavelength ±0.5 nm, excluding a secular change of equipment (add 1% a year after calibration)
 *4: OTDR Port 1, not applicable to Port 2
- *4: OTDR Port 1, not applicable to Port :
 *5: CW, maximum input power: 0 dBm
 (1 mW)
- (1 mw)

 6: CW, 1310 ±2 nm, spectral width: 10 nm or less, input power: 100 µW (-10 dBm), SM (ITU-T G.652), FC/PC connector, wavelength setting: measured wavelength ±0.5 nm, excluding a secular change of equipment (add 1% a year after calibration)

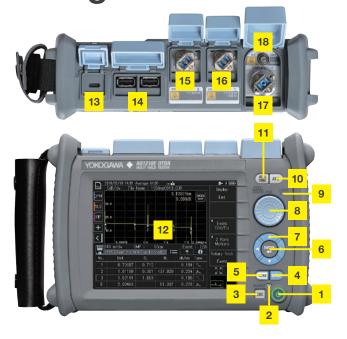
Visible Light Source (/VLS)

| | . , |
|----------------------|--|
| Items | Specifications |
| Wavelength | 650 ±20 nm |
| Optical output power | -3 dBm or more (Peak) |
| Modulation mode | CW, CHOP (Approx. 2 Hz) |
| Optical connector | 2.5 mm diameter ferrule type |
| Laser class | Class 3R (IEC 60825-1: 2007, EN 60825-1: 2014, GB 7247.1-2012) |

VISIBLE LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT 可见認力組制 3R 地域形式 (IEG 6825-1:2014) (IEG 6825-1:2017, GB 7247,1-2012) MAX OUTPUT 5mW WAYELENGTH 550±20nm

Note. All the specifications are valid at 23°C \pm 2°C and after a warming up for 30 minutes or more, unless otherwise stated.

Design



Power switch 10 AVG Key 11 REAL TIME Key **CHARGE LED** 12 LCD 3 ESC Key 4 SETUP Key 13 USB port Type-C **MENU Key** 14 USB port Type-A 15 OTDR port (PORT2) 6 ENTER Key Allow Key 16 OTDR port (PORT1) Rotary knob **OPM** port (option) 18 VLS port (option) 9 LASER LED

Model and suffix code

| Model | | Suffix | Descriptions | | |
|-----------|-----------------------------|--------|---|--|--|
| AQ1210A | | Sullix | 2WL 1310/1550 nm 37/35 dB | | |
| | | | | | |
| AQ1215A | | | 2WL 1310/1550 nm 42/40 dB | | |
| AQ1210E | | | 3WL 1310/1550, 1625 nm 37/35, 35 dB ⁻¹ | | |
| AQ1215E | | | 3WL 1310/1550, 1625 nm 42/40, 39 dB ⁻¹ | | |
| AQ1215F | | | 3WL 1310/1550, 1650 nm 42/40, 37 dB ⁻¹ | | |
| AQ1216F | | | 3WL 1310/1550, 1650 nm 42/40, 40 dB ⁻¹ | | |
| Language | е | -HE | English (Multi-language) | | |
| | | -HM | Chinese | | |
| | | -HC | Chinese/English | | |
| | | -HK | Korean/English | | |
| | | -HR | Russian/English | | |
| Optical c | onnector | -USC | Universal adapter (SC) | | |
| | | -UFC | Universal adapter (FC) | | |
| | | -ULC | Universal adapter (LC) ⁻² | | |
| | | -ASC | Universal adapter (SC Angled-PC) '3 | | |
| Options | Optical power meter | /SPM | Standard optical power meter | | |
| | | /HPM | High power optical power meter | | |
| | | /PPM | PON optical power meter | | |
| | Power checker | /PC | | | |
| | Visible light source | /VLS | Optical connector: 2.5 mm diameter ferrule type | | |
| | Fiber Surface Test function | /FST | Pass/fail judgment | | |
| | Shoulder belt | /SB | | | |

Standard accessories: Connecting cable for USB power adapter, hand belt, start-up guide *1: The OTDR port for 1625 or 1650 nm is equipped with a built-in filter.

- *2: 1.25 mm diameter ferrule type for the optical power meter *3: SC type for the optical power meter

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

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

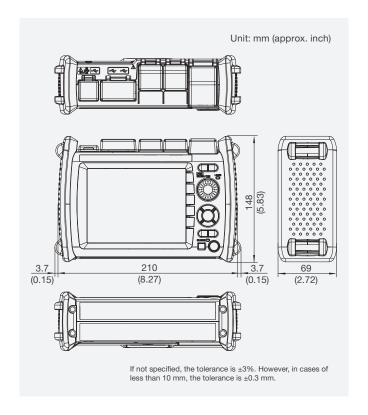
"Typical" or "Typ." in this document means "Typical value", which is for reference, not guaranteed specification.



Accessories (sold separately)

| Model | Suffix | Descriptions |
|------------|--------|--|
| AQ7933 | | AQ7933 Emulation Software |
| | -SP01 | Download version (1-license) |
| | -SC01 | Package version (1-license with CD) |
| 735051 | | Additional Option License |
| | -FST | Fiber Surface Test function |
| 735482 | | Universal Adapter (for OTDR) |
| | -SCC | SC type |
| | -FCC | FC type |
| | -LCC | LC type |
| | -ASC | SC Angled-PC type |
| 735480 | | Connector Adapter (for Optical power meter)* |
| | -SCC | SC type |
| | -FCC | FC type |
| 735481 | | Ferrule Adapter (for Optical power meter)* |
| | -SFC | 2.5 mm diameter ferrule type |
| | -LMC | 1.25 mm diameter ferrule type |
| 739884 | | Battery Pack |
| A1681WL | | USB Cable (Type-C to Type-C) |
| B8070CY | | Shoulder Belt |
| SU2006A | | Soft Carrying Case |
| *APC compa | tible | |

^{*}APC compatible





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