Good things come in small packages

AQ1000
Optical Time Domain Reflectometer
Empower field technicians to make fast and precise measurements

At-a-glance
The AQ1000 satisfies test and measurement needs in analyzing access optical networks.

- Wavelengths: 1310 / 1550 nm
- Dynamic ranges: 32 / 30 dB
- Size: 185 mm (W) x 116 mm (H) x 56 mm (D)
- Weight: 660 g

Multi-touch touchscreen
Intuitive and responsive
Tap, swipe, pinch or press. the high resolution, responsive 5.0-inch multi-touch capacitive touchscreen and hard-key buttons make OTDR operations simple and intuitive.

One-button measurement
Full-Auto
Simply pressing one singe button, the AQ1000 initiates an OTDR measurement, detects and comprehensively characterizes network events with PASS/FAIL judgment based on user-defined thresholds. The measurement data can be saved automatically if desired.

Real-Time
Simple and fast way to observe how the network connection looks like and make a Pass/Fail judgment of the network connection. The markers enables distance and loss measurements.

OTDR view modes
Trace view
Traditional view with OTDR waveforms and event markers.

Map view
Simple, icon-based map view for easy interpretation of network events.

Long battery operation time
Over 10 hours!
No worrying about running out of battery power during your daily work. The AQ1000’s high capacity Li-Ion 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!

Built-in PC and LS, and VLS
Power checker (PC)
Measures and displays optical power of incoming light for testing network performance.

Light source (LS)
Outputs a stable, continuouswave/modulated light for measuring end-to-end attenuation accurately when paired with an optical power sensor.

Visible light source (VLS)
Outputs red light for checking continuity of launch fibers or short fiber trunk. Breaks and bending in fiber can be identified visually. (VLS option is required.)
Data handling features

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

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

Data Transfer
Data files or PDF report files that are stored in the AQ1000 can easily be transferred to a PC through a USB connection.

Wireless LAN (soon-to-be-released)
The AQ1000 is capable of data transfer and remote control in cooperation with wireless LAN capable devices.

Wireless data transfer
The AQ1000's data files can be transferred to a smartphone or tablet using the OTDR data transporter, or to PC using the OTDR Remote Controller software.

Remote control
The AQ1000 can be controlled remotely by a smartphone or tablet using a web browser and by a PC using a web browser or the OTDR remote controller.

Note.
WL6 option is required. Please consult with our sales representatives for availability in your country.
The OTDR Data Transporter and the OTDR Remote Controller are a free application software.

Interfaces

1. USB port (Type micro B)
2. USB port (Type A)
3. 5.0-inch color LCD with capacitive touch-screen
4. VLS port (option)
5. OTDR port
6. Keys

USB power feeding
USB port is used for charging the battery of AQ1000. No need to carry a bulky AC adapter anymore.

Note.
A USB power adapter is not included.
Please consult with our sales representatives for Yokogawa approved USB power adapters.

Multi language
Selection of display languages to assist users in operating the AQ1000 in their native language.

Measurement functions
- Distance measurement
- Loss measurement
- Return loss measurement (Total/Section)
- Auto event search
- Pass/Fail judgment
Power checker function

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength setting (nm)</td>
<td>1310/1490/1550/1625/1650</td>
</tr>
<tr>
<td>Measurement range (dBm)</td>
<td>-30 db ±5</td>
</tr>
<tr>
<td>Measurement accuracy (dB)</td>
<td>±0.05</td>
</tr>
</tbody>
</table>

* CW, 1550 nm (with a spectral width of 10 nm or less), Optical input power 1000 µW (+10 dBm), SM fiber (ITU-T G.652) with 1G/10G connector. Wavelength setting: Measured wavelength ±0.5 nm. (Including a secular change of equipment, allow 1% one year after calibration.)

Stabilized light source function

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Wavelength (nm)</td>
<td>1310 ±20/1550 ±25</td>
</tr>
<tr>
<td>Optical output level</td>
<td>&gt; 20 dBm ±1 dB</td>
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<tr>
<td>Output power stability (dB)</td>
<td>±0.05</td>
</tr>
<tr>
<td>Modulation mode</td>
<td>CW, 270 Hz, 1 kHz, 2 kHz</td>
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<tr>
<td>Laser class</td>
<td>Class 1M</td>
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</table>

* For 5 minutes at a constant ambient temperature within 23°C ±2°C.

Visible light source function (VLS option)

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Wavelength (nm)</td>
<td>850 ±20</td>
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<tr>
<td>Optical output level</td>
<td>&gt; 20 dBm ±1 dB</td>
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<td>Modulation mode</td>
<td>CW, 2 Hz</td>
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<tr>
<td>Laser class</td>
<td>Class 3S</td>
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Note:
All specifications are valid at 23°C ±2°C and after a warming up for 5 minutes or more, unless otherwise stated.

Model and suffix code

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix codes</th>
<th>Descriptions</th>
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</thead>
<tbody>
<tr>
<td>AQ1000</td>
<td>AQ1000-OTDR</td>
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<tr>
<td>Optical connector</td>
<td>USC</td>
<td>Universal Adapter (SC)</td>
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<tr>
<td></td>
<td>UFC</td>
<td>Universal Adapter (FC)</td>
</tr>
<tr>
<td>Wireless LAN</td>
<td>VLS</td>
<td>Wireless LAN</td>
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<tr>
<td></td>
<td>WLAN</td>
<td>Wireless LAN (soon to be released)</td>
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* The use of wireless LAN is subject to the regulation of each country. For more detail please consult with our sales representatives.

Accessories (Sold separately)

<table>
<thead>
<tr>
<th>Name</th>
<th>Model</th>
<th>Descriptions</th>
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<tbody>
<tr>
<td>Universal adapter</td>
<td>735482-FOC</td>
<td>For OTDR port (FO)</td>
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<td>735482-SGC</td>
<td>For OTDR port (SC)</td>
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<td>USB cable</td>
<td>A1530WL</td>
<td>DC power supply, Length 1 m, USB Type A - USB Type micro B</td>
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<td>Strap</td>
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Application software

<table>
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<tr>
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<th>Descriptions</th>
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<tr>
<td>735070</td>
<td>AG7792 Emulation Software (Ver. 6.01 or later)</td>
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<td>Language</td>
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<tr>
<td>EN</td>
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<td>KO</td>
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Please visit NEW web site!
http://www.keithelectronics.in

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--- Branch Office ---
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