

# Multi Field Tester - Optical Time Domain Reflectometer

## AQ1200E MFT-OTDR

## AQ1205E MFT-OTDR

The AQ1200 Multi Field Tester OTDR series is a compact, multi-functional handheld OTDR with various functions for field measurement as well as excellent operability inherited from our high-end AQ7275.

In addition to the well-regarded AQ1200A/B/C, the new AQ1200E and AQ1205E have been released. Both support three different wavelengths for various applications, and the AQ1205E features wide dynamic range.

### FEATURES

- OTDR light source supports three wavelengths  
The AQ1200E and AQ1205E have light sources for three center emission wavelengths: 1310/1550 nm for optical fiber installation and 1625 nm for maintenance applications. The wavelength of 1625 nm is far from that used by communication services, so inserting an OTDR wavelength cutoff filter into a fiber network can prevent the OTDR measurement light from affecting communication services.
- Built-in cutoff filter  
An optical cutoff filter is equipped in the 1625 nm port of the OTDR to enable OTDR measurement without receiving influence from the light in service.
- Optimized for measuring PON systems  
In the passive optical network (PON) system used for fiber to the home (FTTH) networks, it is crucial to quickly and accurately detect and repair failure in the drop cable distal to splitters. The AQ1200E and AQ1205E have a PON measurement mode optimized for measuring the PON including splitters. The AQ1205E features a wide dynamic range, and ensures a high-quality waveform with suppressed undershoot even at the location just beyond a multi-branch splitter which causes large optical loss.  
With their resolution of 0.75 m, the AQ1200E and AQ1205E can distinguish connectors closely placed in FTTH and optical fiber wiring in homes and central offices, etc.
- Various functions for field measurement  
Like AQ1200A/B/C, a wide variety of functions for field measurement are provided as an option. These functions can be selected as needed.
  - Light source
  - Three-types of optical power meter (standard, PON, and high-power)
  - Automatic loss measurement
  - Multi fiber loss measurement
  - Visible light source
  - Fault locator
  - IP test
  - Optical fiber inspection probe



### SPECIFICATIONS

- OTDR wavelength: 1310/1550 ± 25 nm, 1625 ± 10 nm
- Measured fiber: SM (ITU-T G.652)
- Dynamic range:
  - AQ1200E : 32/30 dB, 30 dB
  - AQ1205E : 40/38 dB, 33 dB
- Event dead zone: 0.75 m (typical)
- Attenuation dead zone: 4/5 m, 7 m (typical)
- Pulse width : 3, 10, 20, 50, 100, 200, 500 ns, and 1, 2, 5, 10, 20 μs
- Distance range: 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 400, 512 km
- Stabilized light source:
  - Output level: -3 ± 1 dBm
  - Modulation: CW, 270 Hz, 1 kHz, 2 kHz
- Optical power meter
  - Wavelength: 850, 1300, 1310, 1490, 1550, 1625, 1650 nm (standard and high-power) : 1310, 1490, 1550 nm (PON)
  - Wavelength setting: 800 to 1700 nm (1 nm step) (standard and high-power)
  - Power range: -70 to +10 dBm (standard and PON: 1310/1490 nm) : -50 to +27 dBm (high-power and PON: 1550 nm)
- Visible light source: 650 ± 20 nm, -3 dBm (2 Hz)
- LAN: 10BASE-T/100BASE-TX  
Conforming to IEEE802.3 (RJ-45)
- External dimensions: 217.5 (W) × 157 (H) × 74 (D) mm (excluding optional attachments)
- Mass: Approx. 1 kg
- Rated supply voltage: 100 to 240 V AC
- Rated supply frequency: 50/60 Hz
- Power consumption: Up to 70 W

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