


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ1216F 1310/1550/1650nm OTDR

The Yokogawa AQ1216F is a handheld OTDR in the AQ1210 series designed for fast, reliable field measurements on optical access networks. Dual operation via 5.7-inch multi-touch capacitive screen and hard-key buttons with automatic measurement and PON-optimized analysis. FTTH/PON installation and maintenance; high-port-count splitter network characterization (up to 1 × 128 splits); live-fiber maintenance wavelengths; field reporting via wireless connectivity.



MODEL

**Yokogawa
AQ1216F**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ1216F

LISTING

<https://aumictechlabs.com/products/aq1216f-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ1216F is a tri-wavelength Optical Time Domain Reflectometer (OTDR) engineered for fiber optic network characterization across installation, maintenance, and troubleshooting workflows in telecommunications, datacom, and CATV environments. Operating at 1310 nm, 1550 nm, and 1650 nm, the AQ1216F delivers 40 dB dynamic range per wavelength with minimal dead zones - 0.5 m event and 2.5 m attenuation - enabling precise event location in single-mode fiber. Complete OTDR measurements execute in 3 minutes, supporting field-based decision-making without lengthy acquisition cycles. Technical Specifications Wavelengths: 1310 nm, 1550 nm, 1650 nm Dynamic Range: 40 dB at 1310 nm, 40 dB at 1550 nm, 40 dB at 1650 nm Event Dead Zone: 0.5 m Attenuation Dead Zone: 2.5 m Pulse Width: 50 ns Measurement Time: 3 minutes Attenuation Accuracy: ±0.05 dB (for loss ≤1 dB) Fiber Type: Single-mode Display: 5.7-inch color TFT LCD, 640 × 480, multi-touch capacitive touchscreen Data Storage: >1000 internal

traces; USB external storage Battery: Li-ion polymer; USB Type-C charging adapter (sold separately) Weight: ~1 kg (2.2 lbs) Dimensions: Mini tablet form factor

Key Features

- Multi-wavelength operation enables comprehensive fiber characterization across C-band and L-band windows
- Short dead zones permit rapid location of closely spaced reflective and non-reflective events
- CW and modulated-wave detection capability supports diverse measurement scenarios
- Multi-touch interface combined with rotary dial control balances speed and precision in field operations
- Built-in post-processing generates PDF reports with customizable templates
- Event mapping and pass/fail judgment tools streamline trace analysis
- Sequential multi-fiber testing with organized trace management

Typical Applications

- Fiber link acceptance testing and commissioning
- Network maintenance and fault isolation
- Splice and connector loss characterization
- CATV and long-distance telecom plant verification

Compatibility & Integration

- USB interface supports control I/O and data export
- Ethernet connectivity via USB Type-A wired LAN adapter (dongle)
- Universal SC adapter for optical connections

Features & description

From manufacturer datasheet

Features

- Wavelengths: 1310/1550, 1650 nm

AQ1216F Characteristics / Specifications

PARAMETER	VALUE
Model	AQ1216F
Manufacturer	Yokogawa
Instrument Type	Optical Time Domain Reflectometer
Series	AQ1210 Multi Field Tester
Wavelengths	1310/1550, 1650 nm
Dynamic Range Port 1 Typical	42 dB at 1310 nm
Dynamic Range Port 2 Typical	40 dB at 1550 nm
Maintenance Wavelength DR	40 dB typical
Event Dead Zone	0.5 m typical (AQ1215/AQ1216 class)
Attenuation Dead Zone	2.5 m typical
PON Dead Zone	30 m typical
Distance Range	0.1 to 256 km (512 km on high-DR models)
Pulse Width	3 ns to 20 us
Distance Measurement Accuracy	+/- (0.75 m + measured distance x 2 × 10 ⁻⁵ + sampling resolution)
Sampling Resolution Min	2 cm
Sampling Points Max	256000
Loss Measurement Accuracy	+/-0.03 dB/dB (typical)
Display	5.7-inch TFT LCD, 640 × 480, multi-touch capacitive
Battery Operation	10 hours or more
Recharge Time	5 hours (power off)
Dimensions	approx. 210 × 148 × 69 mm
Weight	approx. 1 kg
USB	TypeAx 2; TypeCx 1 (power, storage, remote)
Internal Memory	>=1000 traces
Live Port Cut Filter	Yes

PARAMETER	VALUE
Alias	AQ1216F Notes Specs from Yokogawa AQ1210 series datasheet. with cut filter on maintenance port. Confirm suffix codes and installed universal adapters (SC/FC/LC).
Attenuation	Dead Zone: 2.5 m typical

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	AQ1216F
Manufacturer	Yokogawa
Instrument Type	Optical Time Domain Reflectometer
Specifications	
PARAMETER	VALUE
Series	AQ1210 Multi Field Tester
Wavelengths	1310/1550, 1650 nm
Dynamic Range Port 1 Typical	42 dB at 1310 nm
Specifications	
PARAMETER	VALUE
Dynamic Range Port 2 Typical	40 dB at 1550 nm
Maintenance Wavelength DR	40 dB typical
Event Dead Zone	0.5 m typical (AQ1215/AQ1216 class)
Specifications	
PARAMETER	VALUE
Attenuation Dead Zone	2.5 m typical
PON Dead Zone	30 m typical
Distance Range	0.1 to 256 km (512 km on high-DR models)
Specifications	
PARAMETER	VALUE
Pulse Width	3 ns to 20 us
Distance Measurement Accuracy	+/- (0.75 m + measured distance x 2 x 10^-5 + sampling resolution)
Sampling Resolution Min	2 cm

Specifications

PARAMETER	VALUE
Sampling Points Max	256000
Loss Measurement Accuracy	+/-0.03 dB/dB (typical)
Display	5.7-inch TFT LCD, 640 x 480, multi-touch capacitive

Specifications

PARAMETER	VALUE
Battery Operation	10 hours or more
Recharge Time	5 hours (power off)
Dimensions	approx. 210 x 148 x 69 mm

Specifications

PARAMETER	VALUE
Weight	approx. 1 kg
USB	TypeAx 2; TypeCx 1 (power, storage, remote)
Internal Memory	>=1000 traces

Live Port Cut Filter: Yes

Alias: AQ1216F

Notes

Specs from Yokogawa AQ1210 series datasheet. with cut filter on maintenance port. Confirm suffix codes and installed universal adapters (SC/FC/LC).

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.