



Communications Shortform Catalog

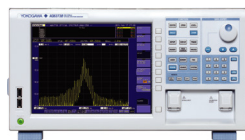
Optical Spectrum Analyzers & Optical Wavelength Meters



Telecom Optical Spectrum Analyzer AQ6370D-12 Std. Performance AQ6370D-22 High Performance

Five updated features including real time stamped data logging

- Wavelength range: 600-1700 nm
- Wavelength resolution: 20 pm (typ.)
- Level sensitivity: -90 dBm (1300-1620 nm)
- Wavelength accuracy: 20 pm (Std.) or 10 pm (HP) (C-Band)
- Dynamic range: 73 dB (Std.) or 78 dB (HP) Typ. (Peak +/- 1.0 nm)
- 2X sweep speed mode
- USB ports for memory stick, mouse/keyboard
- Use with single-mode and multi-mode fibers



Visible Optical Spectrum Analyzer AQ6373B

Visible range model with improved filter shape, double speed mode and data logging

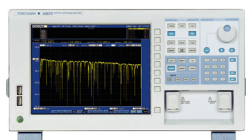
- Wavelength range: 350 to 1200 nm
- Wavelength resolution: 0.02 to 10 nm and 0.01nm (400 to 470 nm)
- Wavelength accuracy: +/- 0.05 nm
- Dynamic range: ≥ 60 dB
- Level sensitivity: -80 dBm
- USB ports for memory stick, mouse/keyboard
- Use with single-mode, multi-mode, and large-core fibers



Wide Range Optical Spectrum Analyzer AQ6374

Only OSA on the market that measures from visible to telecommunication wavelengths

- Wavelength range: 350 to 1750 nm
- Wavelength resolution: 0.05 to 10 nm
- Wavelength accuracy: +/- 0.05 nm
- Dynamic range: ≥ 60 dB
- Level sensitivity: -80 dBm
- USB ports for memory stick, mouse/keyboard
- Use with single-mode, multi-mode fibers



Long Wavelength Optical Spectrum Analyzer AQ6375B

World's first long wavelength optical spectrum analyzer

- Purging ports to reduce moisture interference
- Built-in cut filter for high order diffracted light
- Wavelength range: 1200 nm to 2400 nm
- Wavelength resolution: 0.05 nm
- Wavelength accuracy: +/- 0.05 nm
- Dynamic range: 55 dB
- USB ports for memory stick, mouse/keyboard
- Use with single-mode and multi-mode fibers



Three Micron Optical Spectrum Analyzer AQ6376

World's first grating based optical spectrum analyzer covering the MWIR region from 1500 to 3400 nm

- Purging ports to reduce moisture interference
- Built-in cut filter for high order diffracted light
- Wavelength range: 1500 nm to 3400 nm
- Wavelength resolution: 0.10 nm
- Wavelength accuracy: +/- 0.50 nm (Full range)
- Dynamic range: 55 dB
- Level Sensitivity: -65 dBm
- USB ports for memory stick, mouse/keyboard
- Use with single-mode and multi-mode fibers



NEW

Five Micron Optical Spectrum Analyzer AQ6377

Our latest MWIR OSA extending to 5500 nm for environmental gas and medical applications

- Purging ports to reduce moisture interference
- Built-in cut filter for high order diffracted light
- Wavelength range: 1900 to 5500 nm
- Wavelength resolution : 0.20 nm
- Wavelength accuracy: ± 0.50 nm
- Dynamic range: 50 dB
- Level Sensitivity: -60 dBm
- USB Ports for memory stick, mouse/keyboard
- Use with single-mode and multi-mode fibers



Telecom Production Optical Spectrum Analyzer AQ6360

2x faster speed vs the AQ6370D makes it ideal for volume manufacturing of telecom devices such as laser diodes, optical transceivers and optical amplifiers

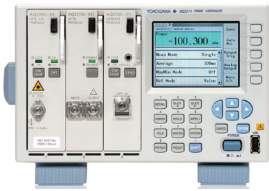
- Wavelength range: 1200 to 1650 nm
- Wavelength resolution: 0.1 to 2 nm
- Wavelength accuracy: 20 pm (1520 to 1580 nm),
- Dynamic range: 55 dB
- Level sensitivity: +20 to -80 dBm
- Multi-touch touchscreen
- USB ports for memory stick, mouse/keyboard
- Use with single-mode and multi-mode fibers



Optical Wavelength Meter AQ6150B Std. Accuracy AQ6151B High Accuracy

Lower maintenance, higher performance

- Single- or multi-wavelength models up to 1024 channels
- Three ranges (nm): 900 - 1700, 1200 - 1700, 1270 - 1650
- WL accuracy: +/-0.7 ppm (AQ6150B), +/- 0.2 ppm (AQ6151B)
- Low maintenance with 40,000 hour rated laser
- Modulated light capability with FFT algorithm
- Fast 0.2 second measurements
- LAN and GPIB remote interface
- USB ports for memory stick, mouse/keyboard



Frame Controllers AQ2211 & AQ2212

The variable optical attenuators, GRID tunable lasers, optical power meters, and optical switches are all housed and automated by the AQ2200 modular platform to offer a flexible test solution for both R&D and manufacturing with proven reliability and performance

- Three or nine-slot controller
- Versatile modular platform for both R&D and production optical testing needs
- Optical test modules: GRID tunable laser, high-power sensor, attenuators and switches
- USB, LAN, remote viewer, <10 ms response time

Optical Switches AQ2200-411/-412/-421

- Single-mode fibers or multi-mode fibers (G1 50 μm or 62.5 μm)
- Low insertion loss: 1.0 dB (typ.)
- High switching reproducibility: within ± 0.01 dB
- Compact dual 1x2 and dual 2x2 port configurations
- Compact 1x4, 1x8, 1x16 port configurations



NEW

GRID Tunable Laser Module AQ2200-131/-132

- Single or dual channels
- C and L band wavelengths
- ITU GRID or fine tuning to 0.1 GHz steps
- Hi-stability output level: ± 0.03 dB
- Hi-stability Freq/WL: ± 0.3 GHz / ± 2.4 pm
- Output power: up to +12.5 dBm

Variable Optical Attenuator AQ2200-312/-332

- SM and MM with monitor output (optional)
- Wide attenuation range: 0 to 60 dB (SM)
- Wide wavelength range: 1200 to 1700 nm (SM)
- Low insertion loss: 1.0 dB (typ.)
- AQ2200-332 includes built-in power monitor to provide absolute power output setting

Optical Sensor Modules AQ2200-215/-212/-222

- NEW -212 Single sensor w/ analog output
- NEW -222 Dual high-performance sensors: power -90 to +15 dBm, range: 800-1700 nm
- -215 module: high power to +30 dBm, range 970-1660 nm
- -221 module : two sensors, 200 μs minimum sampling period



LS Module AQ2200-112

- Laser type: DFB-LD
- Wavelength: 1310, 1550, 1625 or 1650 nm
- One or two channels
- Optical output level: +10 dBm or more
- Output level stability: ± 0.005 dB or less

Remote Optical Sensor Heads AQ2200-232/242

Large-diameter sensor head for free-space measurement and multi-core MPO / MT connector with (12/24 or (16/32) ribbon fiber adapter

- Wavelength range:
 - 800 to 1700nm (AQ2200-232)
 - 400 to 1100 nm (AQ2200-242)
- Wide power range:
 - +15 to -90 dBm (AQ2200-232)
 - +10 to -90 dBm (AQ2200-242)
- +/-1.8% best-in-class uncertainty under reference conditions
- Connects to two-channel interface module (AQ2200-202)



Modular OTDR AQ7280

Multi-tasking, touchscreen, modular chassis with 15-hour battery life for installation and maintenance

- New 1383 nm wavelength for water peak and CWDM testing
- New Improved accuracy 1625 nm +/- 10 nm with filter for live traffic testing
- New 1310/1490/1550 nm module for FTTH testing
- Capacitive touchscreen with ICON based menu
- 15-hour battery life (Telcordia conditions)
- Modular platform with 12 plug-in modules
- Wireless connectivity
- Multi-tasking: tests up to 4 fibers simultaneously
- Fast boot-up: <10 sec.
- Up to 50dB dynamic range
- FTTH, METRO, CORE, PON capability (up to 1x128 splitters)
- USB fiber scope support
- Macrobend detection



NEW
SM + MM model

Compact OTDR AQ1210

Latest updates include a 5.7" capacitive touchscreen, 10 hr battery life, multi-tasking capability, wireless link, and Smartmapper option

- NEW AQ1210D quad wavelength SM + MM model
- Wavelengths: 850, 1300, 1310, 1550, 1625, 1650 nm
- Up to 42 dB dynamic range
- Supports USB fiber scope w/ IEC pass/fail judgement option
- Wireless file transfer and remote control capability
- Built-in cut filter to reject unwanted in-service signals (1310, 1490 and 1550 nm)
- PON-optimized for accurate measurement through 1x128 splitters
- PON power meter for simultaneous measurement at 1490 nm and 1550 nm



Handy Size Optical Power Meter AQ2170/2170H AQ2180/AQ2180H Handy Size Light Source AQ4280A/B/C

- Fits in your hand or pocket
- +10 dBm max. standard version
- +26 dBm max. high power version
- USB port for data transfer to PC (AQ2180 Series)
- Stores up to 999 measurement results (AQ2180 Series)
- Auto wavelength selection when paired with AQ4280 source (AQ2180)
- AQ4280A: 1310/1550 nm
- AQ4280B: 1310/1490/1550 nm
- AQ4280C: 1310/1550, 1490/1625 nm (2 ports)



Entry Level QTDR AQ1000

This entry-level model is ideal for those who seek Yokogawa's established standards of quality and reliability

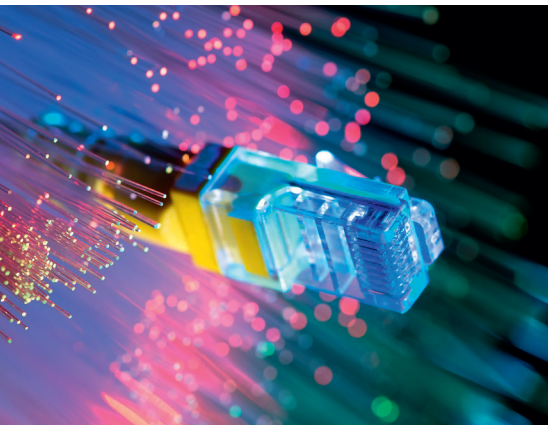
- Multi-touch capacitive touchscreen
- Wavelengths: 1310 / 1550 nm
- Dynamic ranges: 32 / 30 dB
- Full-auto, one button measurement
- 10+ hour battery life
- Size: 185 mm (W) x 116 mm (H) x 56 mm (D) (7.3" (W) x 4.6" (H) x 2.2" (D))
- Weight: 660 g (1.46 Lbs)



Ethernet Tester AQ1300-10G AQ1301-1G

The world's smallest 10M to 10G field ethernet test set. The AQ1300 Series testers are under 3.3 lbs. with a 5.7" color LCD screen

- Service quality: throughput, frame loss, BERT, IFG, L2/L3 loopback and pass/fail analysis
- QoS including duplicate packet, loss packet and Max Burst Loss
- Up to 48 automated tests with primary/satellite and logging
- Remote control, ethernet, USB ports
- Utilizes SFP (1G) and XFP (10G) transceivers



About Us

Since its foundation in 1915, Yokogawa has been recognized as a technology leader. Annually, Yokogawa reinvests nearly a quarter billion dollars in research and development, much of it aimed at core technologies like test and measurement. As a result, Yokogawa's annual corporate revenues have grown to nearly \$4 Billion while amassing more than 6,000 patents and registrations. All of us within the Test&Measurement division recognize it as our mission to continuously develop and supply the best possible solutions with optimum quality and value to customers and society, thereby contributing to our customer's growth.