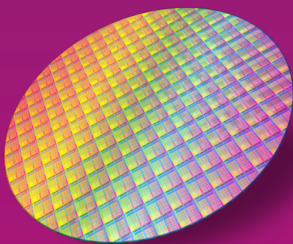


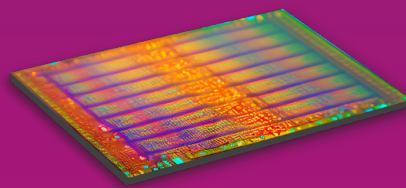
DISCOVER THE FUTURE

of photonics test and measurement.

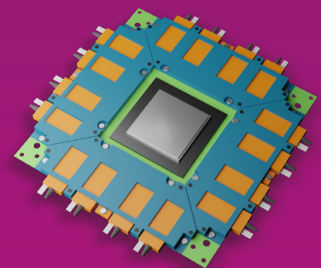
We work with leading photonics developers and manufacturers, building test solutions that deliver a **competitive edge**.



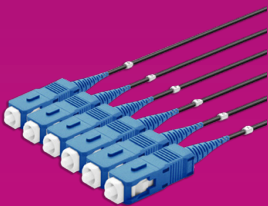
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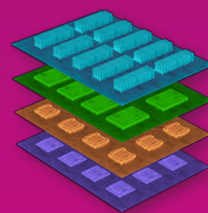
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INSTRUMENTS



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DATA CENTERS



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NETWORKS



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Quantifi Photonics specializes in the testing of silicon photonics, Co-Packaged Optics and pluggable optics for hyper-scale data centers, high-performance computing and artificial intelligence.

We offer an extensive portfolio of general-purpose photonic test solutions that can be configured to test a wide variety of photonic devices and controlled via CohesionUI™, LabVIEW, MATLAB, or preferred programming language. We are also a leading provider of test solutions for coherent optical modulation, with test solutions to generate and characterize coherent optical modulated signals in full detail.

The world of optical interconnects is changing rapidly. To keep pace our test solutions are designed to be:



FLEXIBLE

VERSATILE

MIXED-SIGNAL

SCALABLE

HIGH-DENSITY

EASY TO
INTEGRATE

Test Solutions For All Production Stages

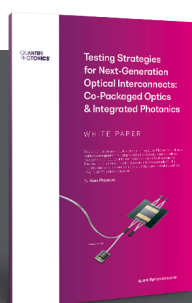
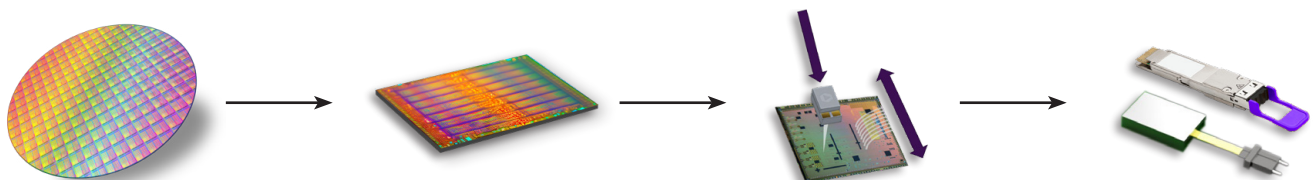
Quantifi Photonics supports the full product life cycle and key manufacturing stages of next-gen optical interconnects, such as integrated photonics and Co-Packaged Optics.

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DIE/PIC

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WHITE PAPER

Testing Strategies for Next-Generation Optical Interconnects: Co-Packaged Optics & Integrated Photonics.



Featured Products



VISIQ™ is designed to make coherent signal analysis and DSP optimization as simple as possible, and it works with high-performance real-time oscilloscopes from all leading manufacturers. It features an intuitive user-interface and supports O-band, C-band and L-Band coherent modulation with our IQRX coherent receivers.



POL-1200 Series

Polarization Controller

Fast and responsive (sub-second) automated polarization control for polarization dependent testing procedures. Offers three operating modes: Scan and Optimize, Manual, and Depolarize, with low insertion loss, high optical power input handling and comprehensive triggering and synchronization capabilities.



Laser-2000 Series

Swept Tunable Laser

Compact and cost-effective laboratory-grade swept tunable laser that can be operated as a step-tuned, swept-wavelength, or fixed-wavelength CW laser source. Offers 0.01 dB power stability, 400 nm/s high-speed scan rate, and built-in synchronization trigger inputs and outputs to use with other measurement instruments.



BERT-1102

Bit-Rate-Error-Tester

The BERT-1102 is an 8-channel PPG and Error Detector for the design, characterization and manufacturing test of optical transceivers and opto-electrical components with symbol rates up to 29 GBaud/s in both NRZ and PAM4 formats.



O-Band IQRX

Coherent Optical Receiver

Our high-performance, low-noise IQRX coherent modulation receiver is now available in an O-band version. Can be used with VISIQ software for O-band coherent modulation analysis and development of next-generation 800ZR coherent transceivers.



INTRODUCING...

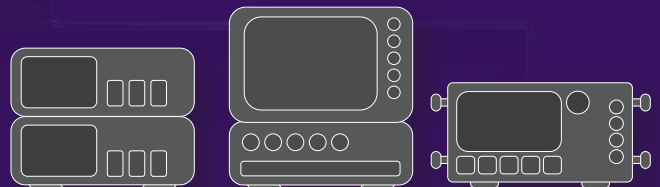


VISIQ™

... the brand new **coherent optical signal analysis software** for today's optical engineers.



The first software platform to enable coherent signal analysis on high-performance real-time oscilloscopes from the 3 leading oscilloscope manufacturers.



Advanced features such as adaptive equalizers and correction algorithms reduce set-up time and optimize system performance.

Intuitive user-interface to increase efficiency of complex & time-consuming coherent modulation analysis.

QUANTIFI
PHOTONICS®

General Purpose Photonic Test Solutions



Tunable Laser Source

Versatile telecom laser sources with full tunability across C or L bands. Narrow 100 kHz line width, up to 16.5 dBm of power, optional whisper mode to disable frequency dither.



Fixed Wavelength Laser Source

Highly customizable DFB or FP laser sources available in a wide range of wavelengths and powers. Models support SMF, MMF and PMF.



Swept, Tunable Continuous Wave Laser

Swept, tunable continuous wave (CW) laser source with 0.01 dB power stability & 400 nm/s high-speed scan rate for R&D & production testing. C/L, O & E-bands.



Super-luminescent Diode Broadband Light Source

Super-luminescent LED light source with high output power, large bandwidth and low spectral ripple and various wavelengths.



Optical-to-Electrical Converter (O2E)

High bandwidth, broadband O-to-E converter. Available in a range of configurations; choose from 1 or 2 channels, AC/DC coupling & various conversion gain/operating wavelengths.



Variable Optical Attenuator (VOA)

Fast attenuation speed with low insertion loss & built-in power monitoring. Operates in fixed attenuation or constant output power modes. Models support SMF, MMF & PMF connector types.



Polarization Conditioner

High-speed automated polarization control and scrambling with broad wavelength coverage from 1260nm to 1650nm, low insertion loss and back reflection.



Optical Power Meter

Fast terminating or in-line monitoring of optical signal power from -60 to +10 dBm across 750 – 1700 nm wavelengths. Model with logarithmic analog output for applications such as silicon photonics fiber alignment.



Bit Error Rate Tester (BERT)

4 or 8-channel Pulse Pattern Generator and Error Detector at rates up to 29 Gbps for the design, characterization and production of optical transceivers and opto-electrical components.



Optical Spectrum Analyzer (OSA)

Low cost, spectral measurement in a compact module with built-in analysis for: SMSR, OSNR & spectral width. Targeted wavelengths for specific applications in O-Band, C-Band & L-Band.



Optical Switch

Proven reliability and fast switching time. Wide variety of switch configurations: 1x4, 1x16, 16x16 and more. Models support SMF, MMF and PMF.



Passive Component Integration

Integrate passive optical components of your choice such as WDM couplers, splitters, band-pass filters, PM beam-splitters & circulators. Models support SMF, MMF & PMF.

Coherent Optical Communications

IQTX

Coherent Optical Modulation Transmitter

Generate and control phase-modulated optical signals at 11 GHz, 20 GHz, 23 GHz or 40 GHz of bandwidth. Supports M-QAM, M-PSK and custom modulation formats & Baud rates beyond 64 GBaud.



IQRX

Coherent Optical Receiver

Gold standard coherent receiver for the measurement of coherent modulation formats such as QPSK, 64QAM and OFDM. Available in O-Band and C/L-Band models.



VISIQ™ is designed to make coherent signal analysis and DSP optimization as simple as possible, and it works with high-performance real-time oscilloscopes from all leading manufacturers. It features an intuitive user-interface and supports O-band, C-band and L-Band coherent modulation with our IQRX coherent receivers.



OMA

Optical Modulation Analyzer

High-performance reference coherent signal analyzer with powerful software for full characterization of 600G, 800G signals & more.



IQABC

Automatic Bias Controller

Modulation format independent Automatic Bias Controller for IQ-modulators. Accurately and reliably control and optimize modulator bias points regardless of the modulation format or pattern.



Co-Rx

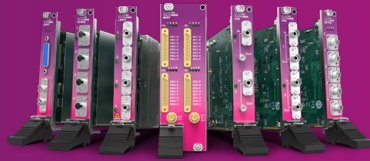
Automated Coherent Receiver Tester

Automated sequential measurement of coherent receiver hardware performance to save test time and generate accurate and reliable results.



Product Platforms

PXIe



The standardized rack mountable instrument form factor, which enables high density test benches with a flexible variety of test instruments.

MATRIQ™



Small bench top instrument for flexible R&D, to easily mix and match instruments on the test bench.

EPIQ™



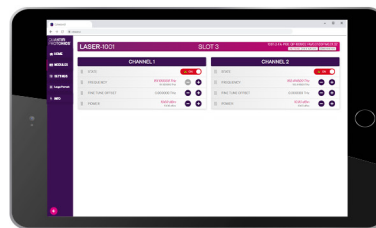
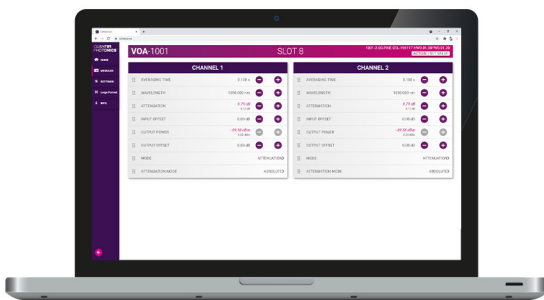
The ultimate solution with maximum instrument and channel density, as well as the ability to act as a custom platform for the final test configuration in manufacturing with the highest density and cost effectiveness.

Intuitive Software Interface



COHESIONUI™

CohesionUI™ is an innovative web-based user interface for a consistent, easy-to-use experience across our products. It includes multi-device support, which means you can control our instruments from any device with a supported web browser, including PC, tablet or smart phone. Users can also use common application environments like LabVIEW and MATLAB, or their preferred programming language such as BASIC, C, C++, or Python.



288 Channel Optical Power Meter



Bit Error Rate Tester



Optical Spectrum Analyzer

Specialized Test Solutions

Power-1410

Optical Power Meter

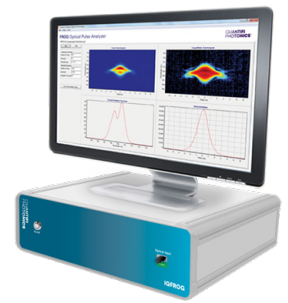
Fast monitoring of signal power from -60 to +10 dBm and broad wavelength range of 1250 to 1650 nm. Unrivalled channel density with up to 288 parallel channels in a single 1U rack-mountable instrument.



IQFROG

Optical Pulse Analysis

Measure pulse intensity and phase in both spectral and temporal domains, yielding a complete pulse characterization. With a long delay arm and high resolution spectrometer, IQFROG measures chirped pulses up to 50 ps wide, or up to 10 ps wide if the pulse is transform limited.

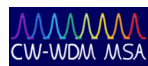


Photonic Doppler Velocimetry (PDV)

Photonic Doppler Velocimetry (PDV) is an established technique used to measure high-velocity events up to tens of km/s. The Doppler module combines the key optical components for PDV measurements in a compact instrument to enable streamlined high channel count PDV test set-ups.



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Our sales engineers love to talk about new test and measurement challenges, and we have the expertise and agility to build customized solutions to match your exact requirements.

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