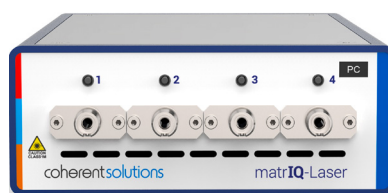


# Coherent Solutions

## World-leading Photonics Test and Measurement Solutions



PXI Optical Test Modules



Compact USB /  
Ethernet Instruments



Powerful Benchtop  
Solutions

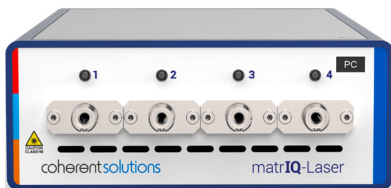


R&D Test + Measurement  
Products

# matrIQ™ Series

## Compact USB/Ethernet Instruments

Cost-effective optical test instruments in a compact and versatile design.



### matrIQ-Laser™

#### Tunable Laser Source

Continuous Wave (CW), tunable laser source offering high-power output, narrow 100 kHz linewidth and 0.01 pm resolution tunability.



### matrIQ-OSA™

#### Optical Spectrum Analyzer

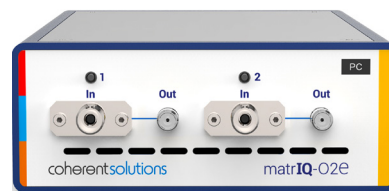
Compact grating-based optical spectrum analyzer available in a range of wavelengths for fast spectral analysis of sources, amplifiers, transceivers and passive optical components.



### matrIQ-Switch™

#### Automated Optical Switch

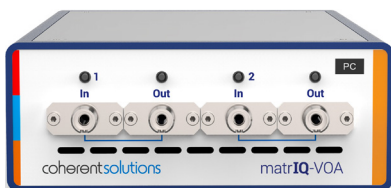
Fast and repeatable MEMs-based optical switch with low insertion loss and high-durability. Available in a range of configurations in single-mode or multi-mode.



### matrIQ-O2E™

#### Optical-to-electrical Converter

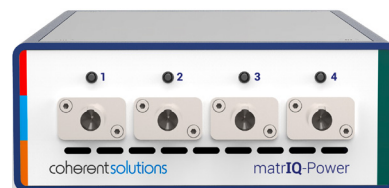
Compact high-bandwidth, broadband optical-to-electrical converter with 1 or 2 channels, AC or DC coupling, and various conversion gain and operating wavelength ranges.



### matrIQ-VOA™

#### Variable Optical Attenuator

Fast attenuation speed, low insertion loss and in-built power meter. Available in a range of wavelengths for wide range of applications.



### matrIQ-Power™

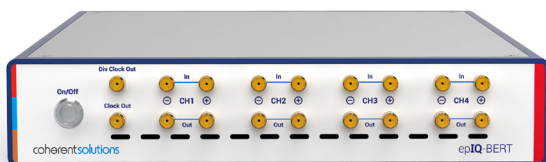
#### Optical Power Meter

Fast monitoring of signal power from -60 to +10dBm and broad wavelength range of 750 – 1700 nm.

# epIQ™ Series

## Stand-alone Benchtop Solutions

Powerful benchtop solutions with comprehensive software and USB or Ethernet connectivity.

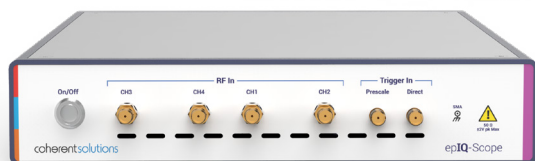


### epIQ-BERT™

#### Bit Error Rate Tester

epIQ-BERT is a 4-channel BER Tester for the design, characterization and production of optical transceivers and opto-electrical components at data rates up to 29Gb/s.

With 4-channels and exceptional signal fidelity, epIQ-BERT is a cost-effective solution for 100Gb/s test systems.



### epIQ-Scope™

#### 4-channel Sampling Oscilloscope

epIQ-Scope is a compact and versatile 4-channel 25 GHz bandwidth sampling oscilloscope suitable for a wide range of applications.

With industry-leading 16-bit resolution, 60dB dynamic range and a sequential sampling rate of 1 MS/s, it enables the quick formation of waveforms, eye diagrams and histograms for cost-effective and efficient measurement.



### epIQ-Laser™

#### Swept Laser Source

epIQ-Laser is a swept tunable continuous wave laser source. High quality grating paired with state-of-the-art micro-electromechanics tuning mechanism for quick, voltage-controlled wavelength tuning and exceptional reliability.

With 0.009dB power stability and 200nm/s high-speed scan rate, it is the perfect time-saving tool for R&D applications as well as production testing.

## Experts in building customized solutions

Our expertise in harnessing, manipulating and measuring the physical properties of light enables us to solve complex test and measurement challenges across a broad range of applications and industries. If you don't see what you need, contact us today at [sales@coherent-solutions.com](mailto:sales@coherent-solutions.com).

# PXI Product Range

## Modular Test and Measurement Platform

Innovative range of PXI optical test modules with many more in development.



### **LaserPXIe** Tunable Laser Source

Full tunability across C or L band. Narrow 100 kHz linewidth, up to 16.5 dBm of power.



### **PowerPXIe** Optical Power Meter

Large-area detector power meter available in various specifications. Available options include external trigger input and analog output.



### **OSAPXIe** Optical Spectrum Analyzer

Fast spectral test and measurement in a compact 2-slot module. O, C and L band options.



### **VOAPXIe** Variable Optical Attenuator

Operates in fixed attenuation or constant output power modes. Integrated power meter for precise output power control.



### **O2EPXIe** Optical-to-Electrical Converter

High bandwidth, broadband O-to-E converter. AC or DC coupling, various conversion gain and operating wavelength range.



### **SwitchPXIe** Automated Optical Switch

Proven reliability and fast switching time. Various switch configurations: 1x4, 1x16, 16x16 and more.



### **DopplerPXIe** Photonic Doppler Velocimeter

Purpose-built module for Photonic Doppler Velocimetry (PDV). A circulator, two VOAs and a passive coupler all built into one compact module.



### **PassivePXIe** Passive Component Integration

Integrate passive optical components of your choice. WDM couplers, splitters, band-pass filters, PM beamsplitters, circulators and more.



### **TrayPXIe** Passive Component Organizer

Protect your passive fiber optic components to keep your workspace tidy & safe.



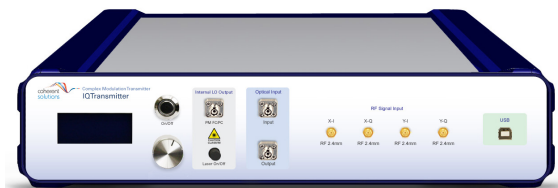
## Why choose PXI?

- Complete instrument platform
- Low latency, high throughput
- Simple to synchronize
- Extremely compact form factor
- Low power consumption

# Coherent Optical Communications

## R&D Test and Measurement Products

Generate high-bandwidth, complex modulation format optical signals with our coherent optical communication solutions.



**IQTransmitter™**  
Optical Signal Transmitter

High quality dual polarization QAM & OFDM generation with up to 40GHz of bandwidth.



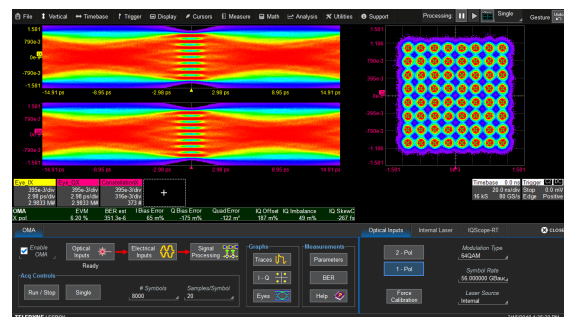
**IQABC™**  
Automatic Bias Controller

Modulation format independent Automatic Bias Controller for IQ-modulators.



**OMA**  
Optical Modulation Analyzer

World-leading OMA with up to 65GHz system bandwidth. The only OMA with scalable modular architecture & fully integrated OMA software.

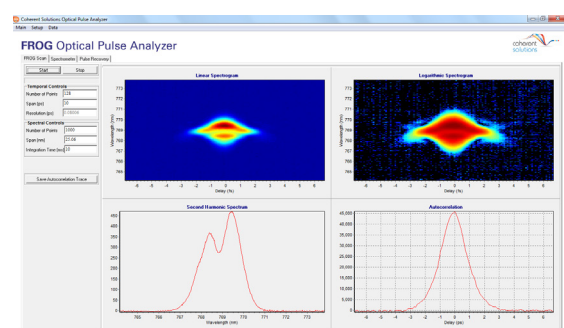


High quality 64QAM signal at 56 GBaud



**IQFROG™**  
Optical Pulse Analyzer

Intensity & phase measurement of femtosecond & picosecond optical pulses up to 50ps long. The most user-friendly FROG on the market.



User-friendly software interface

# cohesionUI™

## Simple and Intuitive Operation

cohesionUI makes it simple to control our matrlIQ or PXle instruments from your PC or mobile device.



- Cutting-edge design
- Multi-chassis control
- Sleek modern interface
- Customizable views
- Cross device compatibility
- Remote network access

### About Coherent Solutions

Coherent Solutions is a world-leader in photonics test and measurement. Our portfolio of benchtop and modular test instruments is rapidly expanding to meet the needs of scientists, engineers and manufacturers around the world. No matter where you are, we'll work with you to solve complex problems with simple, intuitive solutions.

To find out more, get in touch with us today.

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