QUANTIFI PHOTONICS®
A Teradyne Company



Power

1410 SERIES
OPTICAL POWER METER

SPECIFICATION SHEET

quantifiphotonics.com

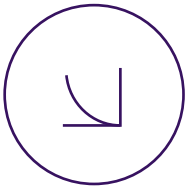
Quantifi Photonics' Power 1410 optical power meter provides fast monitoring of signal power from -60 to +10 dBm and broad wavelength range of 1250 to 1650 nm.

It provides unrivalled channel density with 72 parallel channels in a single 1U rack-mountable instrument.



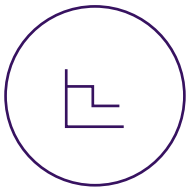
72 parallel channels

Measure optical power across 72 parallel channels simultaneously, providing an efficient solution for high-channel-count test applications.



Single logarithmic detector

Use of a logarithmic detector eliminates the gain jumps exhibited by power meters with multi-stage linear amplifiers. Generate consistent and reliable measurements at all power levels.



Data Logging Capability

Data logging of up to 1024 samples per channel, so you can capture transient events with ease.



Simple, intuitive operation with CohesionUI™

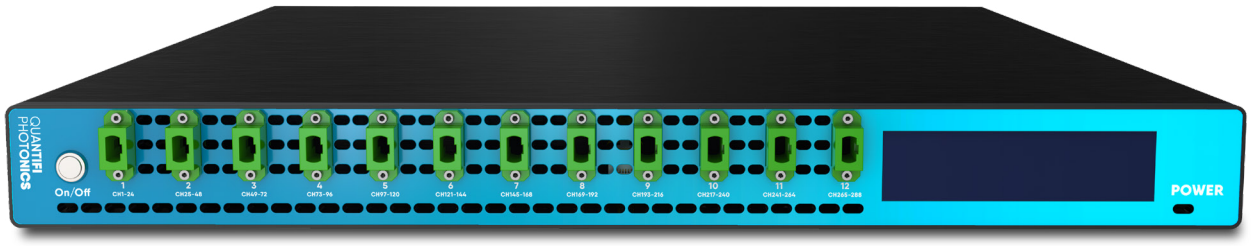
Control the Power 1410 from our modern web-based user interface and view all channels simultaneously.

- Fiber optic manufacturing test.
- Power measurement integration for automated test systems.
- Fiber optic laser test and characterization.
- General and versatile R&D and production tool.

Integrated hardware triggering

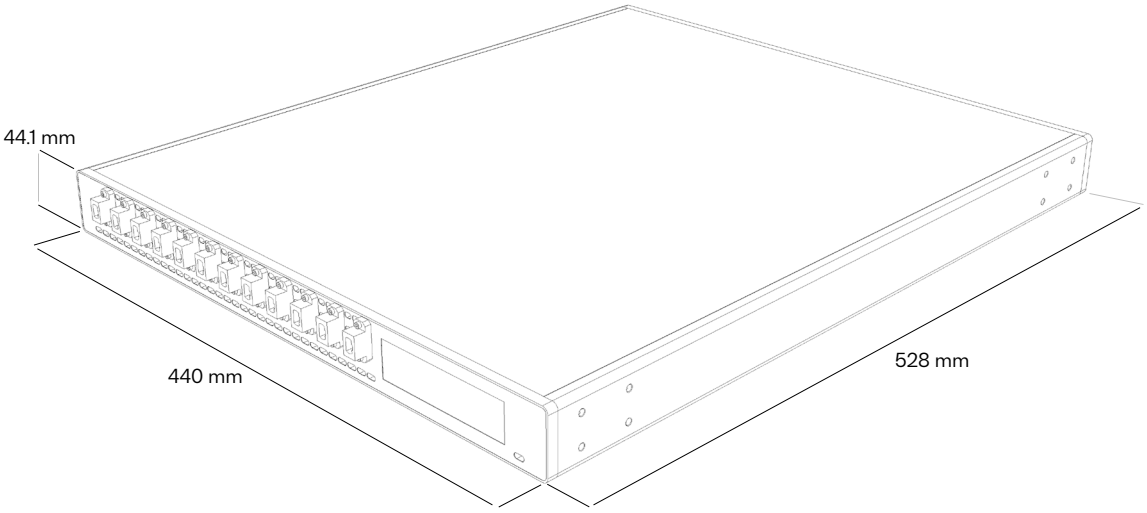
The Power 1410 has integrated hardware triggering capabilities that allow the user to synchronize a variety of instruments through the trigger input. This offers a number of advantages over more traditional software-initiated measurements.

- True parallel measurements of multiple devices under test (DUT) allows you to scale your manufacturing and decrease the test time per DUT.
- Extremely low latency allows you to capture fast events or measure your DUTs very quickly.
- Precise timing alignment between optical and electrical modules gives you control of trigger events to occur exactly when required.

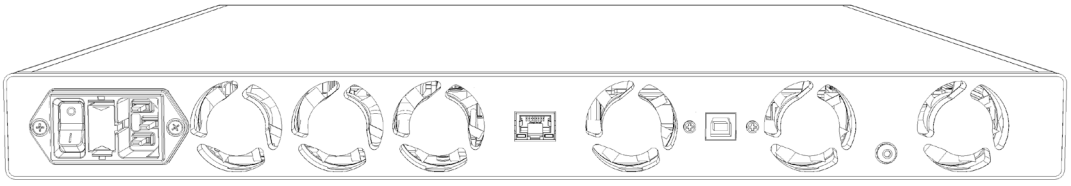


Power-1410

Instrument dimensions



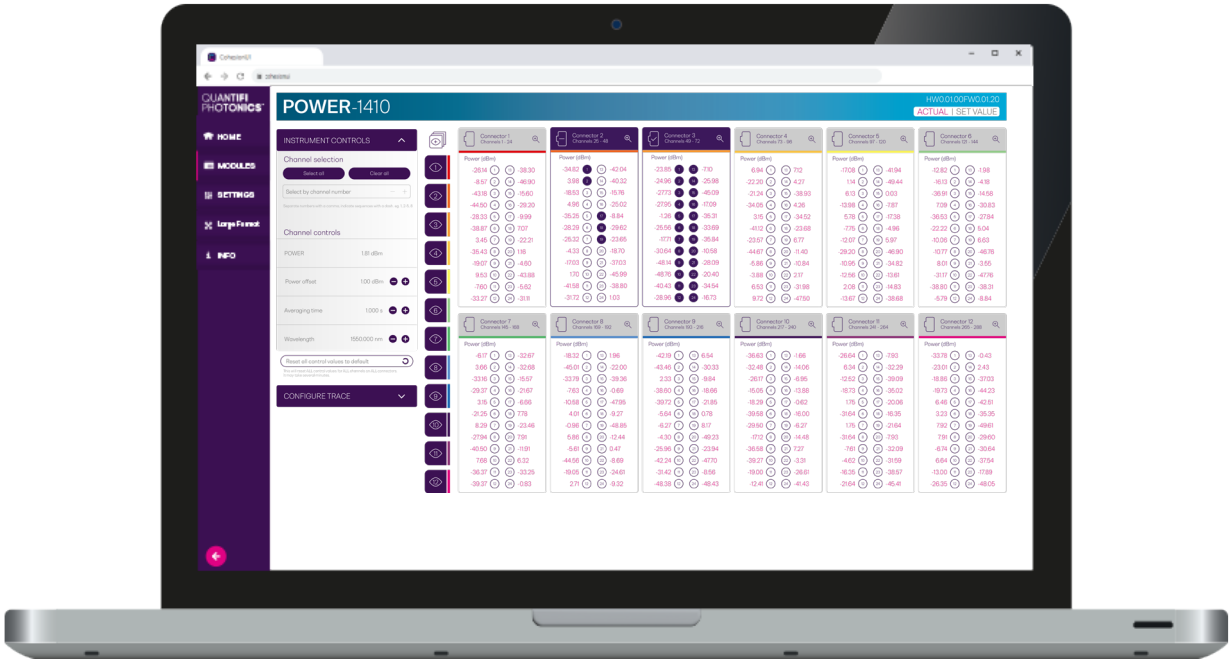
Rear panel connections



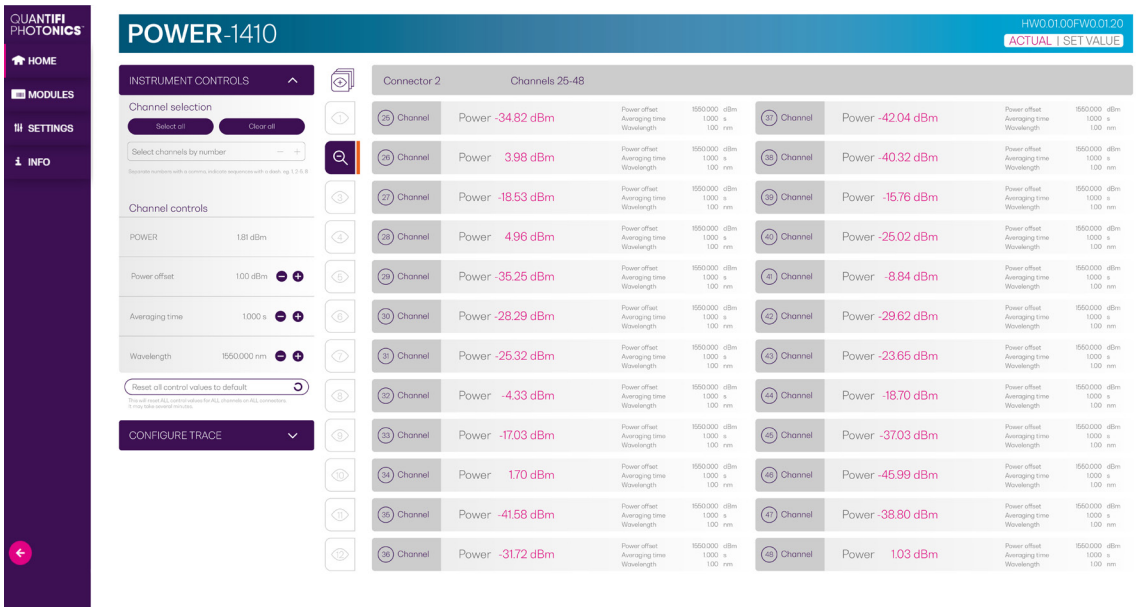
On/Off | Ethernet | USB | Trigger Input

Simple, Intuitive Control with COHESION**UI**™

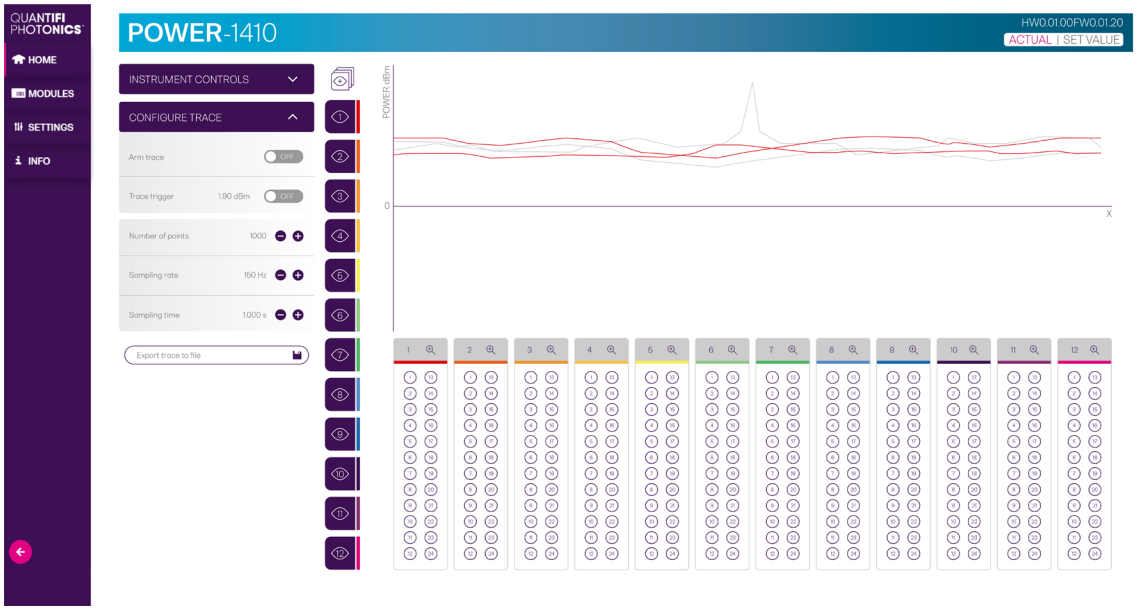
COHESION**UI** makes it simple to control our instruments from a PC. Its cutting-edge design offers a sleek modern interface, customizable views and remote network access.



CohesionUI displaying simultaneous optical power measurements.



CohesionUI displaying a a single connector with 24 optical power measurements.



CohesionUI displaying channel traces.

POWER 1410 TECHNICAL SPECIFICATIONS

General Specifications	EPIQ
Dimensions (HxWxD)	44.1 x 440 x 528 mm | 1.7 x 17.3 x 20.8 inches
Weight	~ 3 kg | ~6.6 lbs
Operating temperature range	5 °C to 45 °C | 41 °F to 113 °F
Storage temperature range	-40 °C to 70 °C | -40 °F to 158 °F

Model Number	1410
Number of channels	72
Optical connectors	MTP Elite Male, key up, SMF Fiber, APC
Sensor	InGaAs
Wavelength range	1250 nm to 1650 nm
Power	- 60 dBm to + 10 dBm
Damage level	+ 12 dBm
Uncertainty [2,3,4]	± 0.29 dB (Typical) | ± 0.50 dB (Max)
Linearity [2,4]	± 0.1dB -40 to 0 dBm; ±0.2dB -50 to -40 dBm
Averaging time	100 µs to 10 s
Data logging capability	1 to 1024 samples per channel on 3 channels in each block of 24 channels. The channels with TRACE are configurable in software.
External trigger	Female SMA, 3.3V TTL

Notes
1. Specifications are valid at 23 °C ± 3 °C.
2. +10 dBm to -40 dBm, 23 °C.
3. Excluding connectors.
4. At calibration wavelengths.
5. Wavelength 1550 nm ± 30 nm, standard single-mode fiber, angled connector 8°, T=23 °C ± 5 °C.

ORDERING INFORMATION

POWER - 1410 - XX - XXXX - EPIQ

Connector type
MA24 = MTP-24 Elite APC Male

Channels
72 = 72 power meter channels

WARRANTY INFORMATION

This product comes with a standard 1 year warranty.

EXTENDED WARRANTIES AND CALIBRATION PLANS

With an **extended warranty and calibration plan** you'll spend more time focused on your priorities and less time worrying about maintenance.

Add a **3 or 5 year extended warranty** when you purchase your Quantifi Photonics instruments.



Guarantee performance

Ensure your equipment is operating at the best it can be for reliable and accurate results.

Lower cost of ownership

Lock in savings and maximise your testing budget with a lower base cost of ownership.

Peace of mind

Spend less time worrying about maintenance and more on generating results.

CALIBRATION PLANS FOR ADDITIONAL DISCOUNTS

Order a **calibration plan** when purchasing your Quantifi Photonics instruments and get additional discounts.

10% Discount On calibrations ordered at the time of purchase.

25% Discount Add on an extended warranty and receive a 25% discount on calibrations.

Over time and with regular use, all optical parts and connectors require re-calibration and maintenance to guarantee accurate and reliable performance. We recommend Quantifi Photonics optical instruments are re-calibrated every 12 months. With an instrument calibration performed by Quantifi Photonics technicians you receive:

- Comprehensive calibration to factory specifications
- End-to-end inspection to ensure all instrument functions are working and connectors are clean
- Firmware, software and documentation updates
- Certificate of calibration which includes detailed test results

How to do I **secure my extended warranty or calibration plan**?

Contact your Quantifi Photonics sales representative or email **sales@quantifiphotonics.com**

Extended warranties and calibration plans must be ordered at the time of purchase and are available only for Quantifi Photonics' products. The 25% calibration discount only applies to calibrations while the product is covered by the extended warranty period.

Versatile test modules for a wide range of requirements and applications.

Tunable Laser Source



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

Fixed Wavelength Laser Source



DFB laser sources available in a range of wavelengths and powers up to 24 dBm. Supports SMF, MMF and PMF.

Swept, Tunable Continuous Wave Laser



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

Superluminescent Diode Broadband Light Source



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

ELSFP-Compliant External Laser Source



Uses ELSFP-compliant pluggable modules to provide 8 channels of CW optical power at 1310 nm up to 24 dBm.

Variable Optical Attenuator (VOA)



Fast attenuation speed with low insertion loss and built-in power monitoring. Operates in fixed attenuation or constant output power modes. Support SMF, MMF and PMF.

Polarization Controller & Scrambler



High-speed automated polarization control with broad wavelength coverage from 1260 to 1650 nm, low insertion loss and back reflection. Full remote control via intuitive GUI, LabVIEW or SCPI.

Optical Power Meter



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

Optical Spectrum Analyzer (OSA)



Cost-effective, 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-to-Electrical Converter



High bandwidth, broadband O-to-E converter. Choose from 1 or 2 channels, AC or DC coupling and various conversion gain and operating wavelength ranges.

Optical Switch



Proven reliability and fast switching time. Wide variety of switch configurations and models support SMF, MMF and PMF.

Photonic Doppler Velocimeter (PDV)



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

Passive Component Integration



Integrate passive optical components of your choice such as WDM couplers, splitters, band-pass filters, PM beamsplitters and circulators. SMF, MMF and PMF.

Digital Sampling Oscilloscope (DSO)



Digital equivalent-time sampling oscilloscope (DSO) with high-quality precision timebase and low jitter mode, available in 1 or 2 channels in a compact benchtop instrument.

Clock Recovery Instrument (CDR)



Clock recovery instrument for the QCA Series. Low jitter design and precise phase-locking provide a reliable, scalable solution for high-speed communication testing.

Coherent Transmitter



Generate high-quality coherent optical signals for transmitter development, testing and advanced modulation research.

Coherent Receiver



High-performance coherent optical receiver for accurate measurement and characterization of coherent modulation formats.

VISIQ Analysis Software

VISIQ

Coherent signal analysis software for intuitive DSP configuration, signal analysis and optimization.

Test. Measure. Solve.™

Quantifi Photonics provides test solutions to help customers unlock scalable and cost-effective high-volume manufacturing of photonic integrated circuits (PICs), co-packaged optics and pluggable optics. The company's portfolio includes a wide range of photonic test instruments, and digital sampling oscilloscopes, available as benchtop or the industry-standard PXI format to support cost-effective, high-throughput design verification testing and high-volume manufacturing.

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

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