

Article Overview

The latest large optical power meters include high-speed, multi-channel, and high-power models from Thorlabs, Newport, Keysight, Ophir, and Dimension, offering advanced measurement, automation, and sensor compatibility.

Thorlabs

Thorlabs offers a wide range of optical power and energy meters, including PM100A, PM100D2, PM100D3, PM400, and PM5020 consoles. These meters support multiple sensor heads with NIST-traceable calibration, allowing users to swap sensors while maintaining accurate measurements. The PM400 console, in particular, can be bundled with popular sensors for convenience. Thorlabs also provides wireless and fiber optic power meters for field applications, with automatic sensor recognition via the red C-series connector for easy integration .

Newport

Newport's latest offerings include the 1936-R/2936-R series, featuring 250 kHz sampling rates and femtowatt-level resolution, making them suitable for highly sensitive measurements. Newport also provides dual-channel benchtop meters, precision fiber optic power meters, and a variety of low-power, laser power, and specialty sensors. Their meters can be extended with additional detectors or software, and virtual optical power meters allow PC-based measurement at lower cost .

Keysight

Keysight's optical power meters are designed for multi-channel measurement and automated test setups, supporting up to eight channels in a compact half-rack form factor. They offer rapid sampling, low latency, and wide dynamic range, with SCPI control for integration into automated systems. Keysight meters use InGaAs sensors for precise, linear, and repeatable measurements across a broad wavelength and power range, suitable for both development and production testing .

Ophir

Ophir's StarBright series is a handheld, feature-rich laser power and energy meter with a bright color display for easy reading. It supports up to eight sensors simultaneously via the StarLab software, and can measure power, single-shot energy, repetitive energy, frequency, beam size, irradiance, and dosage. The StarBright meter is compatible with a wide range of thermal, pyroelectric, and photodiode sensors, and firmware upgrades are straightforward .

Dimension

Dimension's OPM series includes high-performance, high-speed, high-power, and high-sensitivity modules compatible with their ALPHA and OMEGA universal optical test platforms. These modules support one, two, or four detectors per module, with 10 kHz maximum data acquisition speed and 10 million data buffer size per channel. They are designed for automated optical power measurement, fast scanning of passive devices, and integration with other functional test modules for one-stop testing solutions .

Summary

For the latest large optical power meters, users can choose from:

- o Thorlabs: versatile consoles with multiple sensor compatibility and field-ready options.
- o Newport: high-speed, high-resolution benchtop meters with dual-channel capability.
- o Keysight: multi-channel, automated, and high-throughput meters with SCPI control.
- o Ophir: handheld, multi-sensor, and advanced laser measurement meters.
- o Dimension: modular, high-speed, and high-power meters integrated with universal test platforms. These models provide flexible, precise, and scalable solutions for laboratory, production, and field applications, supporting a wide range of optical power and energy measurement needs.

New! Optical Meters Benchtop Power & Energy Meters Handheld Power & Energy Meters Virtual Power Meters Optical Wavelength

Optical power meters Power meters are an active part of most test solutions. All of EXFO's modular (IQS line) and benchtop power

Connected optical power meter: an essential tool for technicians installing or maintaining any fiber optic

Choose the optical power meter you need to enable centralized control, flexible connectivity, and scalable

Tolicore's high-sensitivity optical power meter provides precise and reliable detection of very low power optical signals with low noise

Power meters Power meters are a toolbox essential for all technicians installing or maintaining any type of fiber networks. From

The MPM-220 is a multi-port optical power meter that is perfect for measuring the optical characteristics of

Latest Model of Large Optical Power Meter

multi-port optical devices.

Browse optical power meters designed for network installation and maintenance. Shop reliable fiber testing equipment with multiple

Thorlabs" expanding line of optical power and energy meters includes a large selection of sensor heads,

Optical power meters are indispensable instruments for testing and maintaining modern fiber

Optical power meter with large area Ge detector for testing MPO, plastic optical fiber and free-space beams. Automated with

Quantifi Photonics" Power 1410 optical power meter provides fast monitoring of signal power from -60 to +10 dBm and broad

The 843-R low cost power meter is capable of measuring power level from pJ and pW to thousands of Watts, in a compact body. 843

The large wavelength range of the optical power meter enables working in both the visible and infrared range without switching. The

These compact optical power meters are insensitive to electromagnetic interference by design, an important factor when working in

Accurate optical power meters for -60 to +10 dBm, 750-1700 nm. Ideal for PICs, CPOs, automated testing, and general optical

Web: <https://www.kremgroup.co.za>

