

Shopping for an integrated optical power meter and infrared light meter



Overview

Our optical power meter kits consist of a console, a C-series photodiode or thermal power sensor, and a post mounting assembly.

Key Takeaways

Integrated optical power meters and infrared light meters are available from leading suppliers like Thorlabs, Newport, Keysight, and OptoSigma, offering calibrated, multi-channel, and portable solutions for precise optical measurements. Key Considerations1. Measurement Range and Wavelength Compatibility Choose a meter that covers the wavelength range of interest, especially if you need infrared (IR) measurements.

Many meters use InGaAs sensors for near-IR detection and silicon sensors for visible light. Ensure the meter supports the power levels you expect, from microwatts to watts, depending on your application. 2.

Sensor Type and Integration

Integrated meters combine the sensor and readout in one unit, often with USB or wireless connectivity for computer logging. Separate sensor heads allow flexibility to swap sensors for different wavelengths or power ranges, useful in lab setups. 3.

Portability vs.



Benchtop

Handheld meters are ideal for field measurements or fiber optic installations. Benchtop meters provide higher accuracy, multi-channel capability, and advanced features like high-speed logging and SCPI automation for production testing. 4.

Calibration and Accuracy Look for NIST-traceable calibration to ensure measurement reliability. Some meters store calibration data in the sensor head, allowing multiple sensors to be used with the same console. 5.

Additional Features

Data logging and software integration for automated measurements. High-speed detection for pulsed lasers or rapidly changing signals. Multi-channel measurement for simultaneous monitoring of multiple sources.

Recommended Suppliers

Thorlabs: Offers a wide range of consoles (PM100A, PM100D2, PM400) and compatible sensors, including fiber optic and wireless options. Newport: Provides benchtop and handheld meters with high-resolution sensors, including low-power and specialty detectors. Keysight: Focuses on multi-channel, high-speed meters with SCPI control and automation software, suitable for production environments.

Opto

Sigma: Offers integrated USB meters and high-speed thermal sensors for pulsed and continuous-wave lasers.

Buying Tips

Determine whether you need portable or benchtop solutions. Confirm sensor compatibility with your wavelength and power requirements. Consider software and connectivity if you plan to log or automate measurements.

Check for bundled options that include both console and sensor for cost efficiency. By evaluating these factors, you can select an optical power meter and infrared light meter that meets your accuracy, wavelength, and operational needs.

Article Content

Optical Power and Energy Meters

Thorlabs' expanding line of optical power and energy meters includes a large selection of sensor heads, single- and dual-channel power and energy meter

Optical Power Meter Kits

Our optical power meter kits consist of a console, a C-series photodiode or thermal power sensor, and a post mounting assembly. The sensor in each kit is paired with a PM400 touchscreen digital power

Optical Power Meters

Our benchtop optical power and energy meters are plug and play compatible with our wide range of calibrated optical sensors for the highly accurate and repeatable optical measurements required in

Amazon : Optical Meter

TFN 3-in-1 Fiber Optic Tester, 30KM Visual Fault Locator, Optical Power Meter with LCD Display and LED Light, Includes FC Male to LC Female Adapter for LC/FC/SC/ST

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This buyer's guide for optical power meters provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

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Optical Power Meters

Choose the optical power meter you need to enable centralized control, flexible connectivity, and scalable measurement capability for optical component development or production test. Choose one

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Optical Power Meters – optical power measurement

Optical power meters are instruments for optical power measurements, based on heating of an absorber structure, for example, or on a photodiode.

Optical Power Meters

Benchtop optical power meters provide accurate measurements of optical power and energy by reading the output of calibrated optical sensors. Our benchtop optical power and energy meters are plug and

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