

How to use the Hioki optical power meter



AI Overview

The Hioki 3664 optical power meter measures optical power from lasers or LEDs and can be operated by connecting the appropriate sensor, powering on the device, and selecting measurement modes.

Initial Setup and Safety Before using the meter, inspect the instrument and accessories for any damage from shipping, including the optical sensor, connectors, and cables. Always operate the meter indoors at 0–40°C and avoid exposure to moisture, corrosive gases, or direct sunlight. Use only the specified AA alkaline batteries or the supplied AC adapter to prevent shortened service life or damage. Never connect or disconnect the optical sensor while the power is on, and avoid touching the detector window with bare hands to maintain measurement accuracy.

Powering On Standard Power On: Hold the POWER key for approximately 2 seconds to turn on the meter with the auto-power-save function enabled. Disable Auto-Power-Save: Hold the POWER key for about 5 seconds to turn on the meter and disable auto-power-save. The meter will automatically turn off after 10 minutes of inactivity if running on battery to conserve power.

Connecting the Optical Sensor Select the appropriate optical sensor for your measurement (e.g., Model 9742 or 9743). Connect the sensor securely to the meter's input terminal. Ensure the connection is clean and free of dust. Avoid physical shocks or dropping the sensor, as this can affect sensitivity and accuracy.

Performing Measurements Absolute Measurement: Measures the optical power directly in watts (W) or decibels-milliwatts (dBm). Relative Measurement: Allows comparison to a reference value. Activate relative mode to display changes relative to a stored baseline. Maximum/Minimum Hold: Use these functions to capture peak or lowest readings during a measurement session. Averaging: Smooths fluctuations in readings for more stable results.

Display and Output The main display shows the current measurement, while the sub-display can indicate relative measurement or other modes. Data can be output via the USB...

Article Content

Hioki OPTICAL POWER METER 3661-20 Instruction Manual

Thank you for purchasing the HIOKI "3661-20 OPTICAL POWER METER". To obtain maximum performance from the product, please read this manual first, and keep it handy for future reference.

OPTICAL POWER METER

The 3664 sets the optical power of the incident light to the optical sensor as the reference value, and measures the difference between the set reference value and the current incident optical power.

OPTICAL POWER METER 3664

The Hioki 3664 is an optical power meter for measuring the optical power of a spatial light. It is ideal for testing the optical power of the laser light source and

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HIOKI Optical Power Meter HIOKI 3661-20 : User Manual

The meter has two measurement modes: optical-power measurement mode and optical-loss measurement mode. In optical-loss measurement mode, the meter calculates optical loss by using

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When you receive the instrument, inspect it carefully to ensure that no damage occurred during shipping. In particular, check the accessories, panel switches, and connectors. If damage is evident,

PW8001-06

The PW8001 sets a new benchmark for complete power analysis solutions with Hioki being the only manufacturer that offers industry-leading power analyzers and a wide portfolio of high-accuracy

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Hioki benchtop power meters and power analyzers are best in class power measuring instruments for measuring single to three-phase lines with a high

Hioki OPTICAL POWER METER 3661-20 Instruction Manual

However, mishandling during use could result in injury or death, as well as damage to the product. Be certain that you understand the instructions and precautions in the manual before use.

PW8001/PW4001

PW8001/PW4001- Power Analyzers The HIOKI PW8001 Power Analyzer is a high-precision solution for motor efficiency analysis, inverter testing, and advanced

Hioki OPTICAL POWER METER 3664 Instruction Manual

The 3664 OPTICAL POWER METER is an instrument for measuring the optical power of a spatial light. It is suitable for measurement of the optical power of a

3664 OPTICAL POWER METER

Set precise wavelengths ranging from 320 nm~1100 nm. When used in conjunction with the 9742 Optical Sensor, store up to 6 custom wavelengths in the 3664's internal memory, in addition to the

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3664 OPTICAL POWER METER

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OPTICAL POWER METER

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