

OP710-HP

Multichannel Optical High Power Meter

Overview

Multichannel Optical High Power Meter

The **OP710-HP** offers an economical approach for high-power optical power measurement applications for multiple channels. Unlike other systems, this instrument is built up with individual power meters allowing for unparalleled simultaneous data acquisition over all channels. The detectors offer the same high level of repeatability and accuracy as our standard InGaAs detectors, but with the measurement range adjusted to allow measurements up to +27dBm (0.5W).

The **OP710-HP** is available with 8 up to 24 channels and can be configured for a variety of connector interfaces using the AD adapter family. With the rack mount option, multiple instruments can be combined and configured for even higher channel count.



Model OP710-24-HP Multichannel Optical High Power Meter with 24 InGaAs detectors, with AD-LC and AD-25 detector adapters

Features

- Up to 24 channels of individual optical power meters
- High quality neutral density filters to allow for use with sources up to +27dBm of output power
- Measurement range from +27dBm (500mW) to -40dBm (0.1μW)
- Broad wavelength spectrum; 800nm to 1700nm InGaAs
- Measurement display resolution down to 0.001dB
- Relative accuracy of 0.02dB*
- Variable sampling rate via software
- Remote control available via USB
- Integrated temperature monitoring
- Convenient 19-inch rackmount frame

* Loss less than 10dB

OPL-7 Software

- Ability to log power from multiple OP710s
- Perform data acquisition up to 80 samples/second on more than 300 detectors simultaneously
- Store to Excel

SPECIFICATIONS

OP710-HP	OP710-HP
Individual Channels (other counts available)	8 to 24
Measurement Range	+27dBm to -55dBm
Wavelength Range	830nm to 1700nm
Selectable Wavelength ¹⁾	Standard: 850/980/1300/1310/1480/1550/1625nm
Measurement Resolution (Display)	0.01dBm (absolute) 0.001dB (relative)
Measurement Linearity, Relative Accuracy	0.05dB ²⁾ 0.1dB ³⁾
Data Interface	USB 1.1/2.0 >10 samples/second acquisition rate
Operating Temperature Range	0 °C to 50 °C (32 °F to 122 °F)
Mechanical Dimension	19" Rack Standard (16.8 x 3.8 x 10")
Optical Interface	5/8" adapter (FC/PC included)
Power Supply	Universal AC input: 90VAC to 264VAC, 43Hz to 63Hz

- 1) NIST traceable calibration at -10dBm power level
2) Linearity for loss <5dB and absolute power within +15dBm to -45dBm
3) Linearity for +15dBm to 0dBm, and -45dBm to 55dBm

Laser Classifications

All **OP940 Insertion Loss and Return Loss Test Sets** utilize a **Class I Laser Source**. Unless otherwise noted, all **OP250**, **OP715**, and **OP750** source units with internal laser sources utilize a **Class I Laser Source**. Unless otherwise noted, all **OP815** and **OP850 Insertion Loss Test Sets** with internal laser sources utilize a **Class I Laser source**. All **OP280 Visual Fault Finder** units utilize a **Class III Laser Source**.

OptoTest strongly suggests that all necessary precautions be taken whenever any Class I or Class III laser source is used.

Specifications are subject to change, please confirm specific performance characteristics of the product at the time of ordering. All specifications are valid within temperature range of 18°C to 24°C unless otherwise noted. For additional specifications please contact OptoTest.