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.

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**

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