







OPM-150 **Multichannel Optical Power Meter**



Product Overview

Santec's OPM-150 Multichannel Optical Power Meter is a costeffective solution for manufacturers or labs requiring high channel counts. Available with up to 24 individual detectors, the OPM-150 includes simultaneous power measurements on all channels and built-in USB and Ethernet communication.

The OPM-150 is capable of faster than 30 ms sampling time over the USB interface allowing for fast feedback in active optical alignment applications for fiber coupling and silicon photonics.

It's simultaneous optical power measurement capability enables users to instantly spot a port failure, making the OPM-150 an ideal instrument for demanding production and lab applications.

Software is available for easy automated testing and data export.

Features

- · Mix and match different detector types (Si or InGaAs) and sizes (1, 3, 5 or 10 mm)
- · Simultaneous readings from up to 24 detectors
- < 30 ms sampling time
- · Colour touch screen display
- USB or Ethernet



Applications

- · Optical alignment
- · Silicon photonics
- · Optical signal monitoring
- · Environmental testing
- · Transceiver testing
- · Lab and R&D
- · Parallel laser burn-in testing



Multichannel Optical Power Meter



Individual Power Meters for Maximum Flexibility

Up to 24 individual optical power meters can be built into each OPM-150 enabling large channel counts for signal monitoring.

Wide Operating Ranges and Spectrums



The OPM-150 can be configured with both InGaAs and Silicon (Si) detectors, each with its own measurement range and wavelength spectrum. InGaAs detectors are capable of measurements from +6 dBm to -72 dBm at 830 nm to 1700 nm wavelengths. Si detectors are capable of measurements from +3 to -65 dBm at 400 to 1100 nm wavelengths.



Fast On-Demand Sampling Time

Faster than 30 ms sampling rate for up to all 24 channels over the USB interface allowing for responsive measurements for automation and alignment purposes.

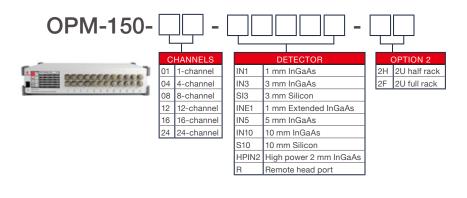
USB and Ethernet Communication Ports







1. Configure OPM Multichannel Optical Power Meter



Dayamatay	Specification				
Parameter	1 mm InGaAs	3 mm InGaAs	5 mm InGaAs	10 mm InGaAs	3 mm Silicon
Wavelength Range (nm)	850 to 1650			400 to 1100	
Power Range (dBm)	6 to -72	3 to -72	0 to -65	0 to -55	0 to -65
Total Uncertainty 1	± 0.25 dB				
Power Resolution (dB)	0,001				
Linearity (dB) ^{2, 3}	± 0.02 (< 10 dB)				
	± 0.05 (> 10 dB)				
Sampling Time	12.5 ms				
Remote Interface	USB or Ethernet				
Display	4.3" touch screen				
Power Supply	Input: 90 - 264 V AC, 47 - 63 Hz				
	Output: 18V DC, 5 A				
Power Consumption (VA)	36 maximum				

- At calibration conditions for all NIST traceable wavelengths
 Measured for InGaAs at 1490 nm, between 3 to -65 for 1 mm, 0 to -65 for 3 mm, 0 to -55 for 5 mm, 0 to -45 for 10 mm
- $^{\rm 3}$ Measured for Si at 980 nm, between 0 to -55 for 3 mm

Mechanical / Environmental Specifications

Parameter	Specification		
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Max Detector Count	24		
Unit Dimension W x H x D (cm)	42.5 x 8.9 x 20.3		
Operating Temperature (°C)	5 to 40		
Humidity (Non-condensing)	Maximum 95% RH from 5 to 40 °C		

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• OPM-150



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