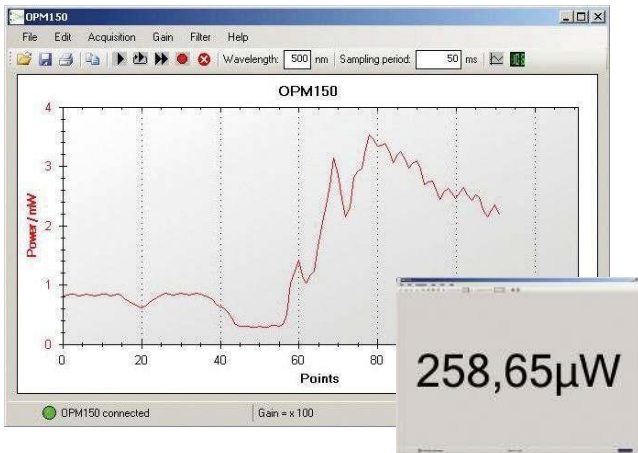


## Power Monitor OPM150



### Highlights:

- Low cost
- Easy to use
- Powerful

### Our offer in Detail:

The OPM150 is a versatile power monitor for use in the lab and for laser servicing as well as for OEM applications.

Heads are available covering 190-1100nm, 400-1600nm, 800-1550nm, 800-2000nm and 1000-2200nm.

Each head is automatically recognized and its individual calibration data are uploaded to the system. In addition, the user may load up to 5 separate filter curves. Thus, the dynamic range and functionality of the unit can be expanded while ensuring proper calibration.

The graphical user interface is intuitive to use and easy to read! The software includes a scope function, data logging and a large, digital display - perfect for daily use in the lab or in the field. The 2-channel version of the software allows control of two units for comparison, ratio or difference measurements. Further functions such as autogain and various storage formats are also included.

The OPM150 is small enough to fit into your pocket and is USB powered and controlled. No extra power supply required, no extra cables on the table. Not only the small size qualifies this instrument für OEM applications. It is very simple and flexible to integrate into your project. The unit comes delivered with drivers for direct communication or to be used as a virtual COM-port.

Furthermore, we provide a full software development kit including the source code for the GUI application as well as a demo LabView®.



### Specifications:

- USB controlled
- 30 Hz update rate with GUI, 1500 Hz as data logger
- 5 gain ranges: measurement range 1nW to 5mW at 532nm; up to 1W with our calibrated attenuators; up to 2kW with our compatible integrating spheres
- Plenty of accessories to enhance the ease of application

### Your problem is our challenge - flexibility is our standard:

We will gladly adapt, for example, the wavelength or the aperture to suit your application.

Let us know your requirements.

Base module (amplifier and USB interface): OPM150, order code 30.070.00002

Base module (amplifier with analogue output and USB interface): OPM150-100kHz, order code 30.070.00058

Order detector heads separately with the order codes as indicated in the full OPM150 brochure or from the web site.

### Specifications

Detector Head Material <sup>1</sup> :		UVS			G			VIGA			x2.0IGA			x2.2IGA			Units
Parameter	Conditions or Model No	min	typ	max	min	typ	max	min	typ	max	min	typ	max	min	typ	max	
<b>INPUT</b>																	
Wavelength range		190		1100	800		1550	400		1600	800		2000	1000		2200	nm
Power range <sup>2</sup>	Min. Max.	1		4	0.5		8	0.5		1.5	0.5		1.5	0.5		1.5	nW mW
<b>OUTPUT</b>																	
Connectors	30.070.00002 30.070.00058	DB9 (detector head) and USB DB9 (detector head), BNC (analogue output) and USB															
Bandwidth	30.070.00002 30.070.00058	10 100															kHz
Sampling rate	GUI-Control Directpolling	30 <sup>(3)</sup> 1500															S/s
Gain stages		1, 10, 100, 1000, 10000															
Accuracy		± 6															%
Reproducibility		± 3															%
Linearity		± 0.2 ± 0.4															dB
<b>SUPPLY</b>																	
Type		USB															
<b>Dimensions</b>																	
	Base module Head	60 x 81 x 36 mm (w x h x l) 35 x 30 (φx l)															mm

### Accessories:

- calibrated filters
- adapters for standard optomechanic systems
- reducing apertures
- fibre receptacles
- carrying case

<sup>1</sup> UVS = UV enhanced Silicon, G = Germanium, VIGA = visible enhanced InGaAs, x2.0IGA and x2.2IGA = IR extended InGaAs

<sup>2</sup> At 532nm (UVS), at 1550nm all others.

<sup>3</sup> 20 S/s with 2-channel software.