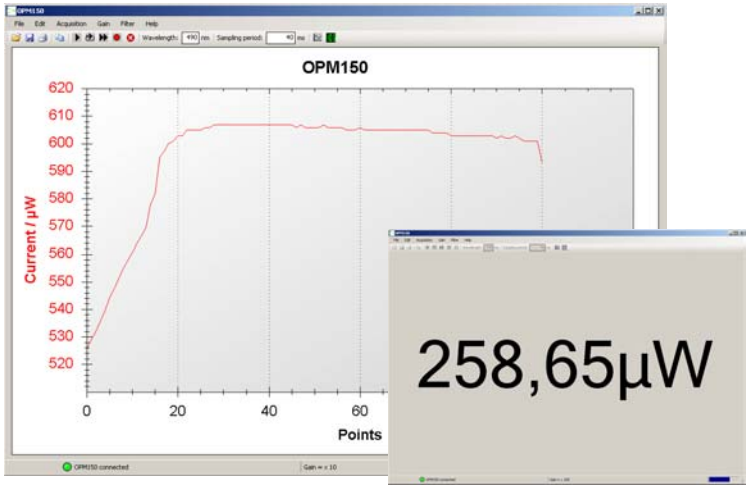
What could be easier?

Power Monitor OPM150

Artifex Engineering
Optoelectronics & Engineering Services



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, 800-1550nm, 800-1650nm and 400-1600nm. 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. 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 for 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-VI®.

Specifications

- USB powered and controlled
- 30 Hz update rate with GUI, 1000 Hz as data logger
- 5 gain ranges from 1µW to 10mW full scale (<1nW resolution!)
- 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.

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[1] Base module including one UV-Silicon detector head, software and carrying case.

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Ordering Information

Base module: OPM150

Detector heads:

Full order code: OPM 150 d

	Options	Description
Diode material (d):	UVS	190-1100nm; 10x10mm
	G5	800-1550nm; ϕ 5mm
	G10	800-1550nm; ϕ 10mm
	IGA	800-1650nm; ϕ 3mm
	VIGA	400-1600nm; ϕ 1mm
	VIGAFC	400-1600nm; FC receptacle

Specifications

PARAMETER	CONDITIONS	Si			UNITS
		Min	Typ	Max	
INPUT					
Wavelength range	UVS Detector	190		1100	nm
Power ranges (full scale)			3.0[2] 1 100 10 1		mW mW µW µW µW
Noise equivalent power (NEP_{RMS})	Min @ 900 nm Max @ 190 nm	5 500 50 5 500		25 2500 250 25 2500	µW nW nW nW pW
OUTPUT					
Connectors		DB9 and USB			
Bandwidth			10		kHz
Sampling rate	GUI-Control Direct polling		30 1000		S/s
Accuracy		± 10			%
Reproducibility		± 3			%
Linearity			± 0.2	± 0.4	dB
SUPPLY					
Type		USB			
DIMENSIONS					
		60 x 81 x 36 mm (B x L x H)			mm

Accessories:
- calibrated filters
- adapters for standard optomechanic systems
- reducing apertures
- fibre receptacles
- calibrated beamsplitter (coming soon)

[2] Linearity guaranteed to 1.5mW (1.8dBm). For higher powers, use our calibrated OD filters or a detector type G5 or G10.

OD1 up to 15mW

OD2 up to 150mW

OD3 up to 1.5W