Optical Power Meter

FEATURES

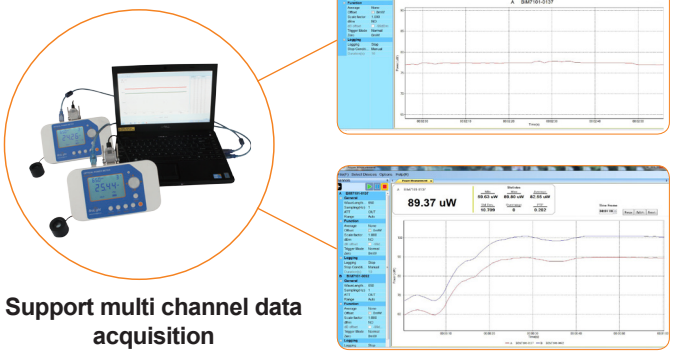
- **Intelligent backlighting and 4 digit LCD display**
- **Display in W ,dBm or dB**
- **Digital data communication with photodetectors**
- **Multi-wavelength measurement**
- **Data can be easily stored and read-out**
- **USB integrated**
- **Built-in power adapter or Rechargeable Battery**
- **The software supports dual-channel data-acquisition**
- **and shows the relation of data compared in the same chart**

BIM-7001

Photodiode Power Sensor

Thermopile Power Sensor

BIM-7001 is a superior hand-held optical power meter. It is an ideal choice for testing power measurement. It has a large LCD display with intelligent backlight at dark environment and rapid, high-definition display. When connected with PC, the relation of power-time and power-wavelength can be shown in real time on PC, which supports dual input and shows the data in the same chart. And also the data can be saved, imported, exported and analyzed as well. It can be used with a power adapter or a rechargeable battery.



Support multi channel data acquisition

Specifications

Compatible Detectors	BIM-71 series (photodiode), BIM-72 series (Thermopile)
Sampling Rate	20 Hz
Internal Sample Storage	800
Communication Interface	USB2.0
Display Type	80 × 54mm LCD
Battery Type	1.2v Rechargeable Battery (not provided with the meter)
Power Requirements	Input:100 - 240 VAC; Output: 6VDC, 1A;
Automaic shutdown	10 mins
Intelligent Backlight	Support
Weight	350 g
Dimensions	210mm × 120mm × 36mm

Ordering Information

No.	Bill of Material	Model #	Qty.
1	Optical Power Meter	BIM-7001	1

Low-Power Digital Photodiode Sensors

FEATURES

- **100% Digital Sensor Technology**
- **Si-UV, SI and InGaAs , 1pW-10mW range**
- **Integrated calibration data stored in sensor**
- **Optional attenuators 10,100 or 1000 times**

BIM-71 Series

Detector

InGaAs with FC connector | Si | UV–Si

Brolight uses the high quality photodetectors available in the BIM-71 photodetector series! Available sensor types are silicon (Si), UV-enhanced Si or Indium Gallium Arsenide (InGaAs) to cover 200nm -1650nm wavelength. It integrates the calibration data and optionally provides 10/100/1000 times attenuator for measuring light source from various powers,covering 200nm-1650nm wavelength.

Ordering Information

No.	Bill of Material	Model #	Qty.
1	Silicon Photodetector	BIM-7101	1
2	Silicon-UV Enhanced Photodetector	BIM-7102	1
3	Indium Gallium Arsenide Photodetector	BIM-7103	1
	* Remake:match with BIM-7001 optical power meter		

Specifications

Model	BIM-7102	BIM-7101	BIM-7103
Material	Si-UV	Si	InGaAs
Spectral Range	200nm - 1100nm	380nm- 1100nm	800nm - 1650nm
Power Range (Without Attenuator)	100 pW - 1 mW	100 pW - 10 mW	100 pW - 10 mW
	-70 dBm - 0 dBm	-70 dBm - +10 dBm	-70 dBm - +10 dBm
Max Average Power Density (without Attenuator)	1 mW/cm^2	10 mW/cm^2	10 mW/cm^2
Max Average Power Density (with 1000 Attenuator)	1 W/cm^2	10 W/cm^2	10 W/cm^2
Optional Attenuator	10/100/1000		
Active Area	1 cm^2		0.071cm^2
Active Diameter	1.128 cm		0.3 cm
Interface Type	DB15		
Connecting line	1.5 m		
Shape(diameter /high)	Cylinder (38 mm /28 mm)		
Weight	105g		

Thermopile Power Sensor

FEATURES

- **Absolute power sensing of laser beams up to 100 W**
- **Large spectral Response range (UV to MIR)**
- **300ms rise time**
- **EEPROM store Calibration data**
- **Bluetooth or USB by the wireless module**

BIM-7203-0100F

Thermopile power sensor is collectively able to detect 0.19um-15um wavelength and 0.1 Watts to 100 Watts power to meet the most optical power measurement needs. Its active aperture is 26mm and internal EEPROM is for storing calibration data. The user can choose BIM-7001 or Bluetooth /USB data module for collocation use.

Typical applications include measurements of CW Nd: CO2, YAG, Holmium lasers, high-power laser diodes and Excimer laser measurements in the UV range.

BC-201021

Bluetooth/usb data module

- **Analog output 0-5V**
- **External Trigger**
- **PWM function, frequency 1Hz-100kHz duty cycle 0.1%-99.9%**
- **Bluetooth and USB for Remote Operation**

Specifications

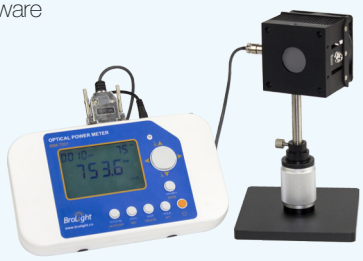
Model	BIM-7203-0100F
Material	Thermoelectric
Wavelength Range	0.19-15 μm
Power Range	0.1-100 W
Max Average Power Density	1.5 kW/cm²
Calibration Uncertainty	± 3% @ 1064 nm ± 5% @ 190 - 15000 nm
Repeatability	± 0.5%
Linearity	± 1%
Uniformity	± 1%
Response Time	0.3s
Cooling	Fan
Connector	GX12
Active Diameter	26 mm
Dimensions (L × W × D)	70mm × 70mm × 70mm 97mm x 70mm x 70mm (work with Bluetooth/usb data module)

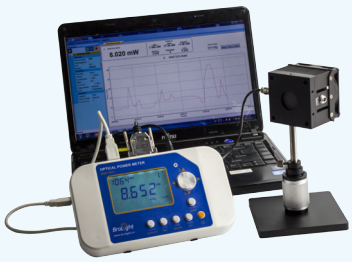
Configuration Schemes

Thermopile Power Sensor with Optical Power Meter kits

- Intelligent backlighting and 4 digit LCD display
- USB interface, real-time data collection and analysis in Windows system
- multi-channel collection software

Display by BIM-7001





Display by the software of Windows PC

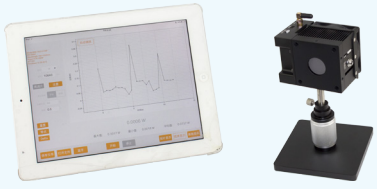
Ordering Information

No.	Bill of Material	Model #	Qty.
1	Thermopile sensor, 100W,190nm~15um	BIM-7203-0100F	1
2	Optical Power Meter	BIM-7001	1
3	Suitcase (option)	BC-135015	1
4	Adjustable height fixing support(option)	BIM-1001	1

Thermopile Power Sensor with Bluetooth/usb data module, data acquisition by -PC or iPad/iPhone

- Analog output 0-5V
- External Trigger
- PWM function, frequency 1Hz-100kHz duty cycle 0.1%-99.9%
- Supports windows and ios

Display in the software of windows PC by USB or Bluetooth



Display in ipad/iPhone by the Bluetooth

Ordering Information

No.	Bill of Material	Model #	Qty.
1	Bluetooth/usb Thermopile sensor, 100W,190nm~15um	BIM-7603-0100F	1
2	Suitcase (option)	BC-135015	1
3	Adjustable height fixing support(option)	BIM-1001	1