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TECHNOLOGY GROUP

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PowerMax-USB/RS Sensors

10 mW to 25W



LM-45, LM-10 and LM-3

Features

- **Thermopile detector element for high power measurements**
- **Measures beam position on detector surface**
- **Noise equivalent power down to 0.4 mW**
- **Large 16 mm and 19 mm apertures**



Quad Positioning Enabled

Thermopile sensors are a great all-purpose technology suitable for many lasers. They are used for measuring CW laser power, average power in pulsed lasers, and are often used to integrate the energy of long pulses. Thermopiles operate across a wide range of input powers, and unlike a photodiode-based sensor they will not saturate. These unique thermopiles incorporate a quadrant thermopile detector disk that enables them to sense the position of the laser beam on the detector surface while measuring the laser power. Fiber optic adapters are available on page 56.

Device Specifications

ISO/IEC 17025:2005

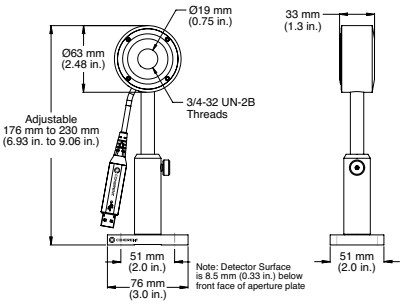
AC-1630

Model	LM-3	LM-10	LM-45
Wavelength Range (µm)		0.25 to 10.6	
Power Range	10 mW to 3W	10 mW to 10W	100 mW to 25W
Max. Intermittent Power (W)(<5 min.)	10	12	45
Long-Pulse Joules (J)	0.5 to 10	0.5 to 10	0.5 to 50
Noise Equivalent Power (mW)	0.4	0.4	2
Maximum Power Density (kW/cm²)		6	
Maximum Energy Density (mJ/cm²)		600 (10 ns, 1064 nm)	
Response Time (sec.)(0% to 95%)			
Speed-up On	2	2	3
Speed-up Off	4	4	4
Detector Coating		Broadband	
Detector Element		Thermopile	
Optic		None	
Detector Diameter (mm)	19	16	19
Calibration Uncertainty (%)(k=2)		±2	
Power Linearity (%)		±1	
Spectral Compensation Accuracy (%)		±1.5	
Long-Pulse Joules Accuracy (%)		±3	
Calibration Wavelength (nm)		10,600	
Cooling Method		Air	
Cable Type		USB and RS	
Cable Length (m)		2.5 (USB)/0.3 (RS)	
Part Number[1]	1168339 (USB) 1363752 (RS)	1168340 (USB)** 1168341 (RS)**	1168342 (USB)** 1211474 (RS)

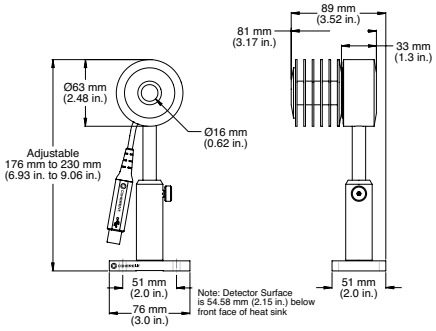
[1] Software and post stand included.

** C24 Quick Ship program: eligible for next business day shipment.

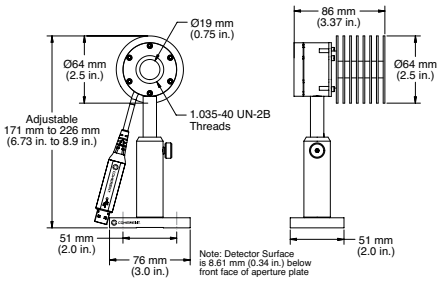
LM-3



LM-10



LM-45



Artisan Technology Group is an independent supplier of quality pre-owned equipment

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