CDI Light Meter

Absolute light measurement made simple.

CDI light meters offer a wide spectrum range, high performance spectrometer, NIST traceable calibration, easy to use free software and the best price performance ratio in the industry.



CDI Light meter is the ideal instrument for the measurement of lamps, fluorescents, LEDs, LED chips and flat panel displays. Measure spectral irradiance (w/m²/nm), absolute intensity, chromaticity (CIE 1932 2° or CIE 1964 10° observer), L a b color coordinates, correlated color temperature and color rendering indices. Included software also contains peak detection capabilities, derivatives and smoothing functions.

- High quality, scientific grade, deep well, silicon diode array detector providing "quiet" spectra with high signal to noise
- Wide spectral range, 300nm to 1095nm standard, custom ranges available
- NIST calibration and certificate included*
- > Spec 32 software includes irradiance measurement and colorimetry modules
- DLL libraries, LabView VI and Active X interface included Free
- Cosine Corrector included
- Fiber optic cable included
- Rugged and portable

Control Development, Inc. 2633 Foundation Drive, South Bend, IN 46628 Phone: (574) 288-7338 Fax: (574) 288-7339 www.controldevelopment.com sales@controldevelopment.com



PART NUMBER CDI-LM1

Product Specifications		
Part Number	CDI-LM1	
Spectrometer Spectral Range (nm)* Linear Dispersion (nm/pixel) Resolution FWHM (nm) Wavelength Accuracy*	300-1095 1.6 4.0 ½ pixel	
Input Fiber Single fiber Core Diameter (microns)		
Material Connector Input Slit Width (microns)	Ultra Low OH or High OH 905 SMA 25	
Optics Gratings	f/3	
Lines/mm Coating Material Order Sorting Filter	400 Aluminum Yes	
	efined range in that spectral region	
Detector Material Type Number of elements T.E. cooling	Silicon 512 none	
Pixel Dimensions (WxH)	25 μm X 500 μm	
Electronics Integration times A/D Converter	1.6 ms to 16 s 16 Bit	
Readout speed Readout Noise * Offset DAC	3 μs per pixel <6 counts RMS Yes	
Memory Microprocessor Strobe Lamp Drivers *nominal	On-Board Enhanced 8051 TTL compatible Two	
Power Requirements Voltage Current	5V DC 8 Amps	
Power supply Communications USB2.0 Interface	Included	
Internal Wavelength Ca Internal Mercury-Argon line s		
Physical Dimensions Dimensions Weight	6.535″L X 4.173″W X 3.0″H 2 lb	
Software The following is included free	with every spectrometer purchase: and Active X App all with user manuals	
Warranty and Support Warranty Extended Warranty Support Telephone	1 year Available Several support packages available 9:00 AM to 5:00 PM, EST, Mon-Fri.	
Control Development, Inc., reserves the right to change specifications without notice		
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Phone: (574) 288-7338 Fax: (574) 288-7339		DEVELOPMENT
www.controldevelopment.com		THE PRICE PERFORMANCE LEADER

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