

*SD card real time datalogger, RS232*

# SCREEN LUMINANCE METER

**Model : LM-4000**

*ISO-9001, CE, IEC1010*



**LUTRON ELECTRONIC**

*The Art of Measurement*

# SCREEN LUMINANCE METER

Model : LM-4000

## FEATURES

* Uses stable, impact-resistant, light less than 5°. circuits, simulating the human visual response, enabling accurate brightness measurements.
* Wide measuring range: 0.01 ~ 39999 cd/m².
* Digital display with excellent repeatability and reliability, featuring data hold and peak hold functions.
* Low power consumption: powered by a 9V battery, continuous operation for up to 100 hours.
* Small measuring light spot, diameter 20 mm; when the measuring distance is less than 1 m, screen target diameter should be greater than 20 mm, and tilt angle less than 5°.
* Compact, lightweight, and easy to use.

## 2-2 Electrical Specifications (23±5 °C , 25% ~ 75 % RH)

Measurement	0.01 ~ 39999 cd/ m² Auto & Manual
Resolution:	0.01cd/ m², 0.1 cd/ m², 1 cd/ m².
Accuracy (23±5 °C)	± 3.0 % + 5 d (After Calibrator.)

## Electrical Specifications (23 ±5 °C)

### 2-1 General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 30 mm
Range	0.01 ~ 39999 cd/ m² (autorange)
Measuring Distance	≤ 1 m
Target Size	≥ 20 mm
Sensor type	Silicon Photodiode sensors
resolution	0.01cd/ m², 0.1 cd/ m², 1 cd/ m².
Datalogger	Auto 2 to 3600 seconds
Sampling Time	@ Sampling time can set to 1 second, but memory data may loss.
Setting range	Manual Push the data logger button once will save data one time. @ Set the sampling time to 0 second. @ Manual mode, can also select the 1 to 99 position ( Location ) no.
Data error no.	≤ 0.1 % no. of total saved data typically.
Memory Card	SD memory card. 1 GB to 16 GB.
Advanced setting	* Set clock time ( Year/Month/Date, Hour/Minute/ Second ) * Set sampling time * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting * SD memory card Format
Over Indication	Show " - - - - ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Power off	Auto shut off saves battery life or manual off by push button.
Operating Temperature	-20 ~ 50 °C
Operating Humidity	Less than 85% R.H.
Power Supply	* Batteries( UM3, AA ) x 6 PCs, or equivalent. * AC/DC power adapter . (adapter is optional ).
Power Current	Normal operation ( w/o SD card save data ) : Approx. DC 24 mA. When SD card save the data : Approx. DC 50 mA.
Weight	244 g/0.54 LB ( meter only ).
Dimension	177 x 68 x 45 mm (7.0 x 2.7 x 1.8 inch)
Accessories Included	* Instruction manual..... 1 PCS
Optional Accessories	* SD Card ( 4 GB ) * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN., SW-E802. * AC to DC 9V adapter. * Hard carrying case, CA-06. * Soft carrying case, CA-05A.

@ Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.