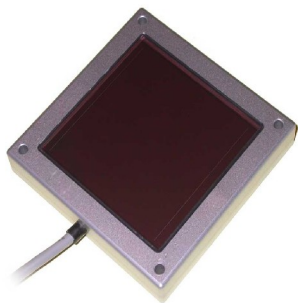


Light-meter: technical data



General

Plug'n'Play	5V DC (via USB)
Voltage supply	max 10mA
Current	special glas, Aluminum anodised
Housing	92 x 92 x 15 mm
Length x width x height	370 g (270 g sensor + 100 g USB-cable)
Weight	500 mikro-Lux to 200 000 Lux
Measurement range	20 mikro-Lux at 1 mLux
Noise	adjustable from 1 per s to 1 per hour
Recording rate	50 – 100 mikro-Lux
Detection limit	-25°C to 80°C
Operating temperature	-30°C to 110°C
Storage temperature	maintainance free
Maintainance	

Installation

The sensor is weather-proof;
Four holes with 4.2mm diameter;
Mount on isolating material (e.g. Wood);
Computer within about 20m of sensor.

System Requirements

- Computer with operating system, one of:
 - Windows XP/NT/2000, or
 - Linux with Virtualbox2 + Windows virtual machine;
- USB port;
- 18 MB disk-space for lightmeter software.

Typical data-rates

1.5 MB/month for 1 measurement per minute
350 kB/week for 1 measurement per minute
3 MB/day for 1 measurement per second

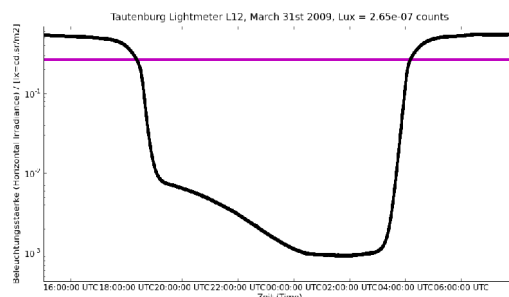
Software-download and further information:

<http://lightmeter.astronomy2009.org>

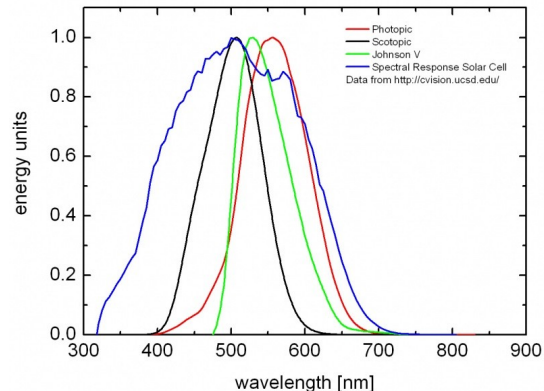
Login: Guest IYA2009

Requests: lightmeter@astronomy2009.at

Technical changes may occur, version of April 15th 2009



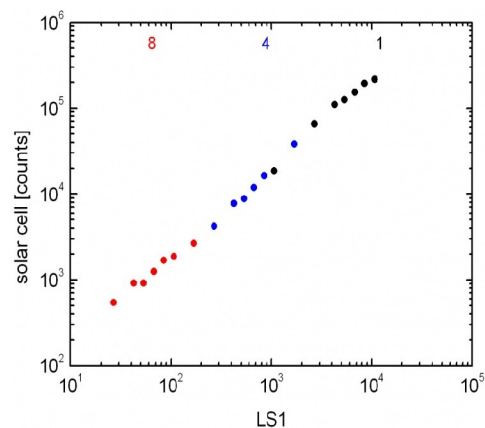
Lightmeter at Tautenburg. Photometric night with half-moon before local midnight and decreasing to one mlx later. Note the nonlinear daylight part above the full-moon brightness (magenta horizontal line).



Spectral sensitivity and bands relevant to the human eye.



Lightmeter and USB-cable compared to 1 Euro coin.



Sensor linearity checked by calibrated and varied light source.