

# Luminance Meter

## MAVO-MONITOR *USB* (cd/m<sup>2</sup>) for Contact Measurements

### Features

- Precision measurement of the luminance
- Classified according to DIN 5032-7 Class B and CIE no. 69
- Silicon photo diode, colour corrected, i.e. its spectral responsivity is matched to the spectral photopic vision of the human eye  $V(\lambda)$ .
- Easy to operate
- Fully functional for all professional requirements
- 3 ½ digit display
- Data storage of max. 100 values
- Automatic battery test
- **USB 1.1 Interface**
- CD Rom with software for processing the values measured and regulating the meter
- Ever-ready case and USB cable included



### Applications

Digital precision instrument for measuring luminance with the measuring sensor placed directly on the luminous or backlighted surfaces, for instance monitors (CRT/LCD), TV screens, light boxes, light panels, traffic signs and ground glass.

An easy to handle, user-friendly measuring instrument for professional applications in industry and service, for special checks and certified testings according to the existing safety regulations, above all at work stations, in medical and office systems

### Functions and Technical Data

#### Light Sensor

Silicon photo diode with  $V(\lambda)$ -filter  
According to DIN 5032-7 Class B

#### Measuring Principle

Contact measurement with the sensor placed directly on the surface to be measured

#### Measuring Sensor

Meas. aperture 18,5 mm Durchmesser  
Measuring surface 6,5 x 6,5 mm

#### Function „Hold“

The current measurement value can be held in the display by pressing the data hold key.

#### Function „Mem“

Storage in memory of upto 100 values. Read-out in the display or via USB port

#### Power Supply

Battery 1,5 V alkaline-manganese cell (IEC LR 6) size AA  
Battery Life approx. 45 hours continuous operation  
When the meter is connected to a PC, power will be supplied by the PC via the USB cable

#### Electromagnetic Compatibility EMC

The MAVO-MONITOR meets the Specifications 89/336/EWG dt. 01.01.1996

#### Ordering Numbers

Description	Order No.	
MAVO-MONITOR <i>USB</i> with measuring sensor	M504G	
MAVO-MONITOR <i>USB</i> without measuring sensor (only when used with MAVO-SPOT)	M506G	
Calibration certificate for MAVO-Monitor <i>USB</i>	H997B	

### Technical Data

Measuring Ranges	0,01 cd/m <sup>2</sup> to 19 990 cd/m <sup>2</sup> subdivided in 4 measuring ranges
Resolution	MR I 0.01 cd/m <sup>2</sup> MR II 0.1 cd/m <sup>2</sup> MR III 1 cd/m <sup>2</sup> MR IV 10 cd/m <sup>2</sup>
Measuring Rate	2 measurements/sec.
Display	Digital, 3 ½ digits LCD
Accuracy	Classified according DIN 5032-7, Class B

#### Dimensions

Meas. Instrument 65 x 120 x 19 mm  
Meas. sensor 31 x 105 x 95 mm  
Connecting cable length 1,5 m

#### Weight

Approx. 265 g without battery

#### Standard Equipment

Measuring instrument with sensor, ever-ready case, battery and instruction manual, USB cable, CD ROM with software for processing the values measured and regulating the meter

#### Optional Accessories

**MAVO-SPOT Attachment** for measuring the luminance from the distance, measuring angle 1°  
**Calibration Certificate – optional at additional price**  
Calibration reference: Scientific Standard Lamp, type Wi 41 G of the PTB, (Physikalisch Technische Bundesanstalt Braunschweig – National Standards Institute). This Calibration Certificate is necessary for all applications, where measurements, controls and inspections are required by the relevant laws and regulations.