

SECULIFE | IA Luminance Analyzer

3-349-774-03
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SECULIFE IA light measurement technology for medical reporting

- SLR viewfinder with measuring circle of 1° and viewing field of 15°
- Remarkably easy, one hand use, with 4 buttons and 1 sliding switch
- Backlight display illumination with LCD read-out in the view finder
- Data memory for up to 1000 single measuring values
- Measuring from the distance from 1 m to infinity
- Measurement of luminance and illuminance
- Automatic measuring range selection
- Tripod socket
- USB 2.0 Port

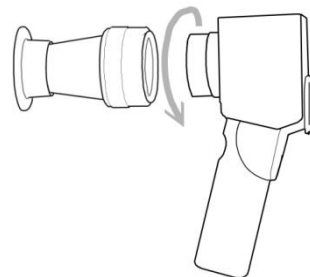


Der SECULIFE IA is a high precision measuring instrument with a measuring angle of 1°. Luminance measurements at distance of 1 meter to infinity can be performed with the instrument.

SECULIFE IA features mirror reflex optic with a 15° field of view, a sharply marked 1° measuring circle at the center and a focusing mechanism.

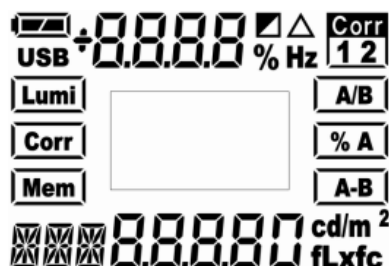
The close up lenses available as accessories make it possible to shorten measuring distance to 34 cm. Luminance can be measured directly at displays with the help of the attachment for contact measurements.

The light sensitive sensor is color corrected, so that its spectral sensitivity is matched to the spectral luminous efficiency of the human eye in daylight $V(\lambda)$.



Self-Test

After inserting the batteries, the microcomputer executes a self-test. All of the elements included in the display panel appear at the display during the test.



Purchase parts

- 1 Aluminum case
- 1 USB cable
- 1 Software
- 1 Operating Instructions
- 2 Batteries

SECULIFE | IA

Luminance Analyzer

Technical Data

Device:

Display	Back-light LCD, measured value display with 4-digit precision
Dimensions	190 x 90 x 57 mm
Weight	Approx. 400 g (without batteries)
Operating temperature	0 °C to 50 °C (EN 61010-1)
Storage temperature	-20 °C to +70 °C
Interface	USB 2.0 (compatible with USB 1.1)
Power supply	Two x 1.5 V batteries (IEC LR6, AA type) Service life: app. 5000 measurements (with alkaline batteries) Battery indicator: multi-segment External power: power is supplied from USB host when operated in PC-mode
Miscellaneous	¹ / ₄ tripod socket

Measure:

General	
Measuring angle	1°
Field of view	15° diagonal
Optical system	Stray light error ambient light (fs (u) < 2%)
Focusing distance	1 m to infinity – focusing with external ring at the lens
Light sensor	Silicon photo diode with V (λ) - filter (f1 < 3%)
Luminance measuring unit	cd/m ² or fL (selectable with DIP switches)
Measuring ranges	Automatic measuring range selection 0.01 cd/m ² to 99 990 cd/m ² in four ranges or 0,003 fL to 29 187 fL

Measuring function/- mode:

Function	Mode
Luminance percentage	Measurement from the distance (Close-up lenses for shorter distances, optional accessories)
Memory MEM	Contact measurement (Measuring Probe for contact measurement, optional accessory)
Correction Factor CORR	
Measuring the illuminance (Lux) with GOSSEN METRAWATT Reflexion Standard (optional accessory)	

Characteristics and specifications:

Characteristics (CIE 69, DIN 5032, EN 13032)	Admissible deviation DIN 5032 class B	SECULIFE IA
V(λ)-match – f ₁	6 %	≤ 3,0 %
Effect from the surrounding field – f ₂ (u)	2 %	≤ 1,5 %
Linearity error – f ₃	2 %	≤ 1,5 %
Temperature coefficient - α ₀ , α ₂₅	1 % / K	≤ 0,5 % / K
Polarization – f ₈	2 %	≤ 0,8 %

Ordering information

Description	Type	Order number
Luminance meter	SECULIFE IA	M688C

For more information on accessories, see

- www.gossenmetrawatt.com

Edited in Germany • Subject to change without notice • A PDF version is available on the Internet