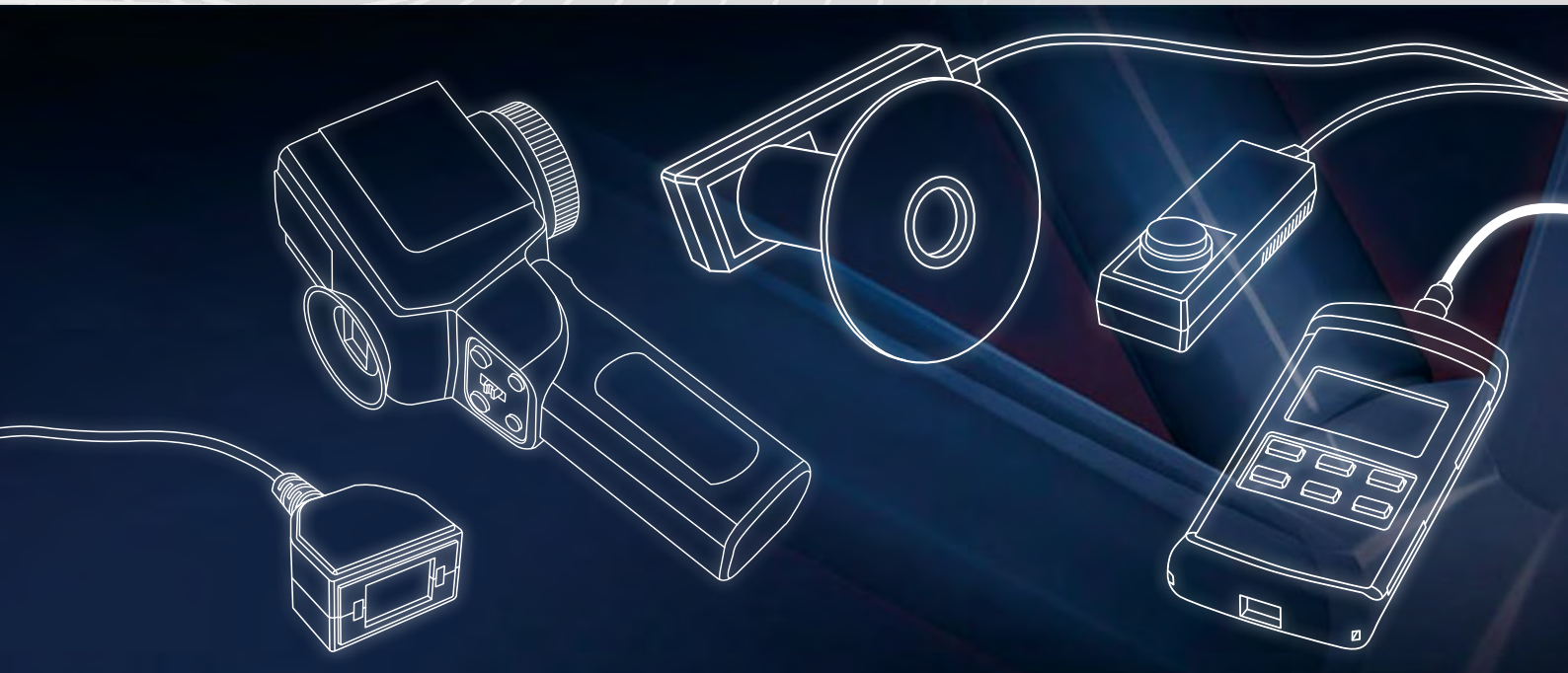


Findings and treatment
with ideal lighting.



SECULIFE | **IA** | **IS** | **IT** | **IM**
ILLUMINATION | ANALYZER | SENSOR | TESTER | MONITORING

For each standard, the correct device:

- ▲ IEC 61223-2-5
- ▲ V DIN 6868-57
- ▲ JESRA 0093
- ▲ AAPM TG18
- ▲ IEC 62563-1
- ▲ DIN 6868-157

Illumination Analyzer

The SECULIFE IA is a precision measuring instrument for the measurement of luminance with a measuring angle of 1°. Luminance measurements at distances of 1 meter to infinity, taking ambient light into account, can be performed with this device.

Where Precision is of Highest Priority

The SECULIFE IA is ideally suited for demanding illumination analysis in the field of medicine, for example approvals and consistency testing, as well as luminance measurements at image viewing devices for computer tomography, digital radiography, sonography, magnetic resonance imaging and x-ray film viewers.

Designed for Maximum Accuracy

World class features included with the SECULIFE IA assure highly accurate results: The instrument includes mirror reflex optics with a 15° field of view, a sharply marked 1° measuring circle in the center and a focusing mechanism.

Closing In On Perfect Results

The close-up lenses available as accessories make it possible to shorten measuring distance down to 34 cm. Equipped with an optional photometric probe for contact measurements, the SECULIFE IA is also capable of measuring luminance directly on the monitor screen.

The Right Spectrum - Automatically

The silicon sensor included with the SECULIFE IA is color corrected, i.e. its spectral sensitivity is exactly matched to that of the human eye. The instrument thus fulfills requirements for class B luminance meters, and is capable of highly accurate measurement of all types of light without having to take correction factors into account.

Large Capacity Memory

The instrument's measured value memory is large enough for up to 1000 memory locations. It can be subdivided into 10 groups for clear-cut structuring. Measurement results can be processed directly at the instrument using the integrated keypad and display. With its built-in USB port, the SECULIFE IA also allows the user to read out measurement results to a PC and analyze them with the included standard software.



Features

- Precision spot measurement of luminance with a 1° measuring angle
- Mirror reflex viewfinder with 1° measuring circle and a 15° field of view
- Distance measurement from 1 m to infinity, and down to 34mm with close-up lens (optional)
- Contact measurement (with optional attachment)
- Color corrected silicon photodiode
- Storage of up to 1000 measured values
- CD ROM with software for measured value logging and display, as well as device control
- Aluminum case included

Interface

- USB port

Power Supply

- 2 × 1.5V AA batteries
- Power is supplied via the USB cable when the interface is used.

Tester

The SECULIFE IT is a high precision illuminance meter for use in hospitals and medical practices. It reliably measures the illuminance of daylight, as well as all types of artificial light sources, and is ideally suited for quality assurance: High precision in accordance with class B allows for use in certification applications and for inspection.

Convenience for Daily Use

The SECULIFE IT is a handy, special measuring instrument for professional use – including professional features for your convenience: compact dimensions, easy to operate, good legibility, practical carrying case.

Intelligent Correction Functions

The silicon sensor included with the SECULIFE IT is color corrected, and its spectral sensitivity is precisely matched to that of the human eye. The instrument thus fulfills requirements for class B luminance meters. The probe's receiving surface is laid out such that obliquely incident light is evaluated as true to cosine. All important types of light can thus be measured very accurately, without having to take correction factors into consideration.

Choice of Units of Measure

The instrument can be transformed from an illuminance meter into a luminance meter with the help of the luminance attachment which is available as an accessory. Available units of measure include cd/m^2 and fl .

Suitable for Any Luminous Intensity

Even powerful light, for example daylight and illumination from headlights, can be measured with the SECULIFE IT without any accessories. Thanks to its very high initial sensitivity of 0.01 lux, the instrument is extremely well suited for measuring minimal illumination intensities as well, for example emergency lighting.

Storage of up to 100 Measured Values

The SECULIFE IT is equipped with non-volatile memory for up to 100 measurement results. They can be processed directly at the instrument using the integrated keypad and display. With its built-in USB port, the SECULIFE IT also allows the user to read out measurement results to a PC and analyze them with the included standard software.

Features

- Precision illumination measurement
- Color corrected silicon photodiode
- Storage of up to 100 measured values
- Automatic and manual measuring range selection
- Luminance units of measure: lux / footcandles (fc) or with attachment: cd/m^2 / footlamberts (fl)
- CD ROM with software for measured value logging and display, as well as device control

Interface

- USB port

Class B per DIN 5032-7



Monitoring

SECULIFE IM precision measuring instrument. The device is designed for class B contact measurements. It's suitable for the performance of measurements at transilluminated and self-luminous surfaces, for example at monitor screen workstations and findings screens.

The Right Spectrum

The silicon sensor included with the SECULIFE IM is color corrected – its spectral sensitivity is precisely matched to that of the human eye. The instrument thus fulfills requirements for class B luminance meters, and is capable of highly accurate measurement of all types of light without having to take correction factors into account.

Precision and Convenience

The SECULIFE IM is a handy, special measuring instrument for professional use – including professional features for your convenience: compact dimensions, easy to operate, good legibility, practical carrying case.

Memory Capacity for 100 Measured Values

The SECULIFE IM is equipped with non-volatile memory for up to 100 measurement results. They can be managed directly at the instrument using the integrated keypad and display. With its built-in USB port, the SECULIFE IM also allows the user to process measurement results at a PC with the included standard software.



Features

- Precision luminance measurement
- Color corrected silicon photodiode
- Storage of up to 100 measured values
- Automatic and manual measuring range selection
- Luminance units of measure: cd/m^2 or fL
- CD ROM with software for measured value logging and display, as well as device control

Interface

- USB port

Sensor

The **SECULIFE IS lighting fixture monitor** is used wherever constant illumination must be assured, for example at monitors for interpreting findings and medical viewing devices. It allows for precise measurement of ambient light from monitor screens in accordance with IEC 61223-2-5.

Installed in Seconds

Initial start-up of the SECULIFE IS is quick and easy: The instrument is connected with the included power pack, or to a USB port at the measuring PC, and is attached to the monitor screen.

Features

- Monitoring range: 20 to 60 lux
- Power supply via power pack or USB socket
- LED display
- Continuous operation

Interface

- USB port

Light Quality at a Single Glance

The current illumination situation is indicated by the SECULIFE IS with two LEDs. A green LED indicates that illumination is within the permissible range of 20 to 60 lux or 50 lux (class 1 of DIN 6868-157). If this value is exceeded or fallen short of, the SECULIFE warns the user with a red LED.

Saves Time and Money

Test intervals for consistency testing at image reproducing apparatus are extended to six months for veiling luminance and maximum contrast if the instrument is used. In the case of periodic measurements, there's no need to repeat the veiling luminance measurement during constancy and acceptance testing, nor is it necessary to wait 60 minutes until the monitor screen has reached a stable operating state.



Safety class II per VDE 0106, part 1

Electromagnetic compatibility (EMC) per directive 89/336/ECC dated 1 January 1996



SECULIFE - Light Analyzers

SECULIFE offers other light analyzers for medical technology as well.
The range of products also includes function and safety testers.

Further information can be accessed at www.seculife.eu.



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