

Colorimeter PCE-CSM 1







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PC software included / Li-ion battery / 3 different color spaces / Determines reference values to compare to samples / White and black calibration

The handheld portable digital colorimeter PCE-CSM 1 was developed for quality control and offers a high accuracy. When using the colorimeter, you can choose between different color spaces (CIE L*a*b*C*h, CIE L*a*b* and CIE XYZ). After a measurement with the colorimeter, the reading can be used as a reference value while other readings can be recorded as a sample and later be compared to the reference value easily.

In addition to the individual color space coordinates, the deviation between the reading is also displayed. When using the colorimeter, it is possible to store up to 100 reference values and up to 20,000 samples on the device. The measured data can also be transferred to a PC via the USB interface. A special PC software is included in the package.

- ► CIE L*a*b*C*h, L*a*b* and XYZ
- ▶ Automatic white and black calibration
- ▶ Determines reference values to compare to samples
- ▶ Rechargeable Li-ion battery
- ▶ measuring of different colors
- Suitable for many different surfaces
- ▶ 8°/d geometry diffused illumination integrating sphere system illuminates sample from 8-degree angle
- ► Easy to use
- ▶ Incl. PC software
- ▶ 6 mm sample aperture

Specifications

More information

Geometry $8^{\circ}/d$ Aperture \emptyset 6 mm

Sensor Silicon photoelectric diode

Color spaces CIE L*a*b*C*h, CIE L*a*b, CIE XYZ

Color difference formula ΔE^*ab , ΔL^*ab , ΔE^*C^*H

Observation Angle CIE 10°

Light source D65

Light source device LED blue light Errors between each equipment $\leq 0.80 \Delta E^*ab$

Storage 100 reference values, 20,000 samples Repeatability Standard deviation within ΔE^* ab 0.08 Average of 30 measurements of standard

white plate

Power supply Rechargeable lithium-ion battery

3.7 V @ 3200-mAh

Charging time 8 hours

Battery life Approx. 5,000 measurements

Lamp life 5 years, more than 1.6 million

measurements

Storage conditions Air temperature: 0 ... 40°C / 32 ... 104°F

Air humidity: 0 ... 85% RH, non-

condensing

Dimensions 205 x 67 x 80 mm / 8.07 x 2.63 x 3.14 in

Weight 500 g / 17.6 in

Manual

Video

Video Quick Start



More product info



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