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## Technical Color Meter PCE-CSM 3

### Color meter PCE-CSM 3 for quality control

**PC software included / Li-ion battery / different color spaces /  
 determination of reference values and samples / white calibration**

The color meter PCE-CSM 3 was developed for quality control and offers a very high accuracy. When using the color meter, you can choose between different color spaces (CIE L\*a\*b\*C\*h, CIE L\*a\*b\*). After a measurement with the color meter, 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 color meter, 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, CIE L\*a\*b\*
- white calibration
- determination of reference values and samples
- measuring aperture is 8 mm
- rechargeable lithium-ion battery
- high accuracy
- easy to use
- incl. PC software

### Technical specifications

Measuring geometry	8°/d
Measuring aperture	Diameter 8 mm
Sensor	Silicon photoelectric diode
Color spaces	CIE L*a*b*C*h, CIE L*a*b*
Color difference formular	$\Delta E^*_{ab}$ , $\Delta L^*_{a^*b^*}$ , $\Delta E^*_{C^*h}$

Errors between each equipment	$\leq 0.50 \Delta E^*_{ab}$
Standard deviation	within $\Delta E^*_{ab}$ 0.08
Repeatability	average of 30 measurements of standard white plate
Light source	D65
Storage	100 reference values, 20,000 samples
Interface	USB
Power supply	Rechargeable lithium-ion battery 3.7 V @ 3,200 mAh
Charging time	2 h (8 h at first use)
Battery life	> 3,000 measurements
Lamp life	3 years, more than 1 million measurements
Operating conditions	0 ... +40 °C / 32 ... +104 °F 0 ... 85 % RH
Dimensions	200 x 70 x 100 mm / 7.8 x 2.7 x 3.9 in
Weight	500 g / 17.6 oz

### **Delivery content**

- 1 x Color meter PCE-CSM 3
- 1 x Lithium-ion battery
- 1 x Mains adapter
- 1 x Calibration plate (white)
- 1 x PC software
- 1 x Instruction manual