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Technical Specification Colour Meter PCE-CSM 1

Colorimeter PCE-CSM 1 for quality control
PC software included / Li-ion battery / different colour spaces /
determination of reference values and samples / white and black calibration

The colorimeter PCE-CSM 1 was developed for quality control and offers a high accuracy. When using the colorimeter, you can choose between different colour 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 colour 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 20000 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
- determination of reference values and samples
- rechargable Li-ion battery
- measuring of different colours
- suitable for many different surfaces
- easy to use
- incl. PC software

Technical specifications

Measuring geometry $8^{\circ}/d$ Measuring aperture \emptyset 4 mm

Sensor Silicon photoelectric diode

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

Colour difference formular $\Delta E^*ab, \Delta L^*ab, \Delta E^*C^*H$

Light source D65

Light source device LED blue light Errors between each equipment ≤0.50 Δ E*ab

Storage 100 reference values, 20,000 samples Repeatability Standard deviation within ΔE^* ab 0.08

Measurement conditions: average of 30 measurements of

standard white plate

Power supply Rechargeable lithium-ion battery

3.7 V @ 3,200 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

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

Dimensions 205 x 67 x 80 mm

Weight 500 g

Delivery content