# COLOUR METER

## PCE-CSM 5




- **CIE LAB, XYZ, LCh, RGB, LUV**
- **White calibration**
- **Determination of reference values and samples**
- **Exchangeable measuring apertures**
- **Rechargeable lithium-ion battery**
- **Suitable for many different surfaces**
- **Easy to use**
- **Incl. PC software**

The color meter was developed for quality control and offers a high accuracy. When using the color meter, you can choose between different color spaces (CIE LAB, XYZ, LCh, RGB, LUV). In addition, the color meter PCE-CSM 5 comes with two different measuring apertures (Ø6mm and Ø10 mm). 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.

## Specification

| General technical data | |
|---|---|
| Display Typ | TFT-Color Display |
| Display size | 2,8 Inch |
| Storage medium | Internal memory |
| Storage capacity | 20000 Values |
| Memory capacity Additional information | 100 reference values, 20000 samples |
| Interface | Mini-USB, RS232 |
| Sensor | Silicon photodiode |
| Repeatability | 0,03 ΔE*ab |
| Light source | D65, A, C, D50, F2, F6, F7, F8, F10, F11, F12 |
| Measurement time | 0,4 s |
| Color spaces | XYZ, LCh, CIE RGB, CIEL u* v*, CIEL a* b*, WI (whiteness), YI (Yellowness) |
| Color inequality | ΔE* ab<br>ΔE( h)<br>ΔE* uv<br>ΔE* 94<br>ΔE*cmc(2:1)<br>ΔE*cmc(1:1)<br>ΔE* 00 |
| Measuring aperature | Ø 4 mm, Ø 8 mm (interchangeable) |
| Measuring geometry | 8°/d |
| Observer | 10° |
| Calibration | Selectable between white and black calibration |
| Menu language | English (US), Chinese |
| Protection class (device) | IP20 |
| Power supply | 5 V DC, 2 A |
| Connector type | Device Europlug |
| Battery/battery | 1 x 3,7 V intern , Lithium-ion battery |
| Battery capacity | 3200 mAh |
| Operating conditions | 0 ... 40 °C , 0 ... 85 %RH |
| Storage conditions | -20 ... 50 °C , 0 ... 85 %RH |
| Dimensions ( L x W x H ) | 205 x 67 x 80 mm |
| Weight | 500 g |

PCE Americas Inc. dba PCE Instruments
1201 Jupiter Park Drive, Suite 8
Jupiter, FL 33458
USA

Phone: +1-561-320-9162
info@pce-americas.com