# COLOR METER

## PCE-CSM 2




- **Rechargeable Lithium-Ion battery**
- **Autom. calibration of black-and-white contrast**
- **Continuous performance**
- **Designed for food industry**
- **Measures various colors**
- **Application on different surfaces**

The Colorimeter proves to be a true multitasking device. It is designed to measure the color spectrum of various objects. Light consists of a broad spectrum of colors which are not always purely white, black or blue. A light-source illuminates an object, which then absorbs part of that light and reflects another one. That reflected light can be then detected by a sensor in order to determine the reflected wavelengths and thus calculate its color. Colorimeters are often applied in areas of quality control in industrial sectors. Colorimeter of the PCE-CSM series are applied especially in industries where the characteristics of colors play a big role.

Whether it is dental technology, painting industries or for the production of plastic bags, the colorimeter PCE-CSM 2 is an ideal product for quality management and thus assure highest reliability, whenever it is important to assure a certain standard in optic quality. The colorimeter supports an ergonomic design and features a user-friendly menu navigation. The colorimeter PCE-CSM 2 has a **measuring aperture of 8 mm**. The supported color spaces of the colorimeter PCE-CSM 2 are CIEL*a*b*C*h, CIEL a*b*, and CIEXYZ.

Thus the colorimeter is designed for application in professional industries. Another advantage of the colorimeter of the PCE-CSM series is that it supports a vertical justification. This means that the whole device does not need to be placed on the object to analyse, but only the part with the sensor in it.

## Specification

| General technical data | |
|---|---|
| Display type | TFT colour display |
| Display size | 2,8 Inch |
| Storage medium | Internal memory |
| Storage capacity | 20000 Values |
| Memory capacity (additional information) | 100 standards, 20000 samples |
| Interface | Mini-USB |
| Sensor | Silicon photodiode |
| Light source | Blue LED<br>Illuminant: D65 |
| Colour spaces | CIEL*a*b*C*h, CIEL a* b*, CIEXYZ |
| Colour difference | ΔE*ab<br>ΔL*ab<br>ΔE*C*H |
| Measuring aperature | Ø 8 mm |
| Measuring geometry | 45/0 |
| Calibration | White or black calibration selectable |
| Menu language | English, Chinese |
| Protection class (device) | IP20 |
| Power supply | 5 V DC, 2 A |
| Connector type | Device-europlug |
| (Rechargeable) battery | 1 x 3,7 V internal , Lithium-ion battery |
| Capacity | 3200 mAh |
| Operating conditions | 0 ... 40 °C , 0 ... 85 % RH |
| Storage conditions | 0 ... 40 °C , 0 ... 85 % RH |
| Dimensions ( L x W x H ) | 205 x 67 x 80 mm |
| Weight | 500 g |