COLOUR METER

PCE-CSM 5-ICA



- **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**
- **incl. ISO-Calibration Certificate**

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 ΔE(h) ΔE* uv ΔE* 94 ΔE*cmc(2:1) ΔE*cmc(1:1) 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

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