

COLORIMETER

PCE-XXM 30



- » **USB-C interface for charging**
- » **Battery life for approx. 10,000 measurements**
- » **Pass / Fail function**
- » **Measuring opening of Ø8 mm / 0.31"**
- » **Bluetooth interface with free app**
- » **Various adjustable light sources**
- » *****Requires free app for Android only in Playstore (PCE-XXM 30) to use all features**

The colorimeter is designed to carry out fast and precise color measurements of surfaces. The color ranges CIE-LAB, CIE-LCh, HunterLab, CIE-Luv, XYZ, RGB of the color can be determined with the colorimeter. An LED with a wavelength of 400 ... 700 nm is built into the colorimeter as a light source. The measuring opening of the colorimeter is Ø8 mm. Despite its compact design, the colorimeter has a repeatability of ΔE^* from ≤ 0.1 .

In addition to normal color measurement, the colorimeter can also determine color differences. For this purpose, a reference measurement is first carried out with the colorimeter on any reference. Then measurements can be carried out on test objects with the colorimeter. The colorimeter in turn shows the difference between the reference and the test item. A permissible tolerance can also be stored in the colorimeter. If the tolerance is adhered to, this is indicated by a green display on the colorimeter. If the measured color is outside the tolerance, this is indicated by the colorimeter with a red display.

A connection to an Android capable device can be established with the Bluetooth interface. The free app for the colorimeter can be downloaded from the Play Store. Measurement parameters can be changed from the app to the colorimeter. In addition, the measurement can be carried out via the app. The measurement result is then displayed directly in the app.

Specification

General technical data	
Repeat accuracy	$\Delta E^*ab \leq 0.1$
Display type	LCD
Display size	1,2 Inch
Storage medium	Internal memory
Storage capacity	10 Values
Memory capacity (additional information)	10 measured values, redundant
Interface	Bluetooth, USB-C
Light source	LED (full and visible wavelength range) Illuminant: A, B, C D50, D55, D65, D75, F1 ... F12, CWF, U30, DLF, N8F, TL83, TL 84, U35
Measurement time	1 s
Colour spaces	CIEL a* b*, HunterLAB, CIEL u* v*, XYZ, Yxy, LCh, CIE RGB, WI (whiteness), YI (yellowness)
Colour difference	ΔE^*ab ΔE^*cmc ΔE^*94 ΔE^*00
Measuring aperture	Ø 8 mm
Measuring geometry	8°/d
Gloss component	SCI (Specular Component Included)
Wavelength range	400 ... 700 Nm
Wavelength range	10 Nm
Observer	2°, 10°
Calibration	White or black calibration can be selected, calibration is automatic
Additional description	WI: ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby YI: ASTM D1925, ASTM E313-00, ASTM E313-73 Blackness: My, dM Hue: ASTM E313-00 Colour density: CMYK (A, T, E, M), Milm, Munsell, opacity, dye strength, colour strength Difference between two different colour measuring devices (IIA) - $\Delta E^*00 < 0.4$
Menu language	English, English (GB)
Protection class (device)	IP20
Power supply	5V DC, 1 A
(Rechargeable) battery	1 x 3,7 V internal , Lithium-ion polymer battery
Capacity	760 mAh
Operating conditions	5 ... 45 °C , 0 ... 90 % RH
Storage conditions	5 ... 45 °C , 0 ... 90 % RH
Dimensions (L x W x H)	130 x 35 x 35 mm
Weight	87 g