Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

PORTABLE 8/D COLORIMETER · Ø8 MM · PC SOFTWARE

CC200

Portable Colorimeter · 8/d · Ø8 mm · CIE Lab, LCh, XYZ · D65 · 2.8" display

CC200 Portable Colorimeter is a hand-held tristimulus colorimeter with 8/d geometry and a silicon photodiode detector. It measures the colour of a sample and its difference from a stored standard — CIE Lab, LCh, XYZ under illuminant D65 and ΔE*ab, ΔL*a*b*, ΔE*C*h* — and shows pass/fail against the set tolerance. The standard model: 8/d with an Ø8 mm aperture, CIE Lab, LCh and XYZ, a large sample memory and PC software for colour difference control in production and goods receipt.

8/d | Ø8 mm aperture | CIE Lab, LCh, XYZ | D65 | ΔE*ab 0.08 repeatability | 100 / 20 000 records | Li-ion battery | PC software

Document type: **Technical Specification Sheet**
Product: **CC200 Portable Colorimeter**
Format: Print layout · A4 landscape

CC200 product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue

Request quote



CC200 · portable 8/d colorimeter with Ø8 mm aperture

GEOMETRY 8/d	APERTURE Ø8 mm
REPEATABILITY ΔE*ab 0.08	MEMORY 100 / 20 000

MODEL
CC200

ADDRESS / HQ
Polje ob Sotli 4
SI-3255, Slovenia

CONTACT
sales@colo.si
+386 70 713 437

CC200 · product overview

Routine colour difference control of plastics, paints, printed matter and textiles

CORE TECHNOLOGY

8/d geometry — 8° illumination and diffuse viewing for a stable reading on smooth and moderately textured surfaces.

Measuring aperture Ø8 mm — for flat samples, panels and parts.

CIE Lab, LCh, XYZ and **ΔE*ab, ΔL*a*b*, ΔE*C*h*** under illuminant D65 and the CIE 10° observer.

LED source with blue-light excitation and a silicon photodiode detector — a simple, robust tristimulus measurement.

Standard and sample modes with tolerances: measure the master once, then every sample shows ΔE, pass/fail and the direction of the colour offset.

100 standards, 20 000 samples stored in the instrument; larger databases in the PC software.

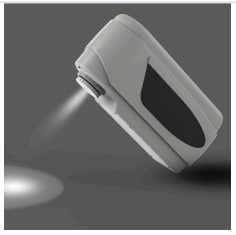
Rechargeable Li-ion battery 3 200 mAh — no disposable batteries.

USB and PC software — colour difference analysis, indices, sample database and reports.

PRODUCT HIGHLIGHTS



Screen and keypad
2.8" colour display, one-key access to standard and sample measurement.



Illumination positioning
A light spot shows where the instrument measures — quick and simple placing.



Hand-held measurement
Ergonomic body; result and pass/fail in about 1.5 s.



PC software
Colour difference analysis, indices, sample database and reports on the PC; data by USB.

APPLICATIONS



Paints & coatings



Plastics & electronics



Leather & textiles



Automotive parts



Food



Laboratory & QC

GEOMETRY	COLOUR SPACES	ILLUMINANT	BATTERY
8/d	CIE Lab, LCh, XYZ	D65	Li-ion 3 200 mAh

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CC200 · technical parameters

8/d · Ø8 mm · CIE Lab, LCh, XYZ · D65

TECHNICAL PARAMETERS

Optical geometry	8/d (8° illumination, diffuse viewing)
Standards	CIE No.15
Light source	LED (blue-light excitation)
Sensor	Silicon photodiode
Measuring aperture	Ø8 mm
Colour spaces	CIE Lab, LCh, XYZ
Colour difference	ΔE*ab, ΔL*a*b*, ΔE*C*h*
Illuminant	D65
Observer	CIE 10°
Displayed data	Colorimetric values, colour difference values, pass/fail, direction of the colour offset
Positioning	Illumination positioning
Calibration	Manual white calibration

Repeatability	Within ΔE*ab 0.08 (white plate, average of 30 measurements)
Inter-instrument agreement	Within ΔE*ab 0.5
Measuring time	1.5 s
Display	2.8" TFT colour display
Data storage	100 standards, 20 000 samples
Interface	USB
Software	PC colour quality software (Windows)
Printer	Micro thermal printer (optional)
Power supply	Li-ion battery 3.7 V, 3 200 mAh, more than 3 000 measurements per charge
Charging	Approx. 2 h (first full charge approx. 8 h)
Light source life	More than 1 million measurements in 3 years
Dimensions (L × W × H)	205 × 70 × 100 mm
Weight	approx. 500 g (with battery)
Environment	Operation 0–40 °C, 0–85 % RH (non-condensing); storage −20–50 °C

CC200 · accessories and series

Standard delivery, optional components and the CC10 / CC200 / CC20XE models at a glance

ACCESSORIES



Powder test box

OPTIONAL



Micro printer

OPTIONAL

Standard delivery

Instrument	CC200 portable colorimeter
Power	Built-in Li-ion battery, power adapter
Software and cable	PC colour quality software (download), USB cable
Care	Wrist strap
Documents	User guide

Optional

Powder test box	Repeatable surface for powders and granules
Micro printer	Prints results at the instrument

CC10, CC200 or CC20XE — which model?

Model	CC10	CC200	CC20XE
Geometry	8/d	**8/d**	45/0
Aperture	Ø4 mm	**Ø8 mm**	Ø20 mm
Colour spaces	CIE Lab	**Lab, LCh, XYZ**	Lab, LCh, XYZ
White calibration	—	**yes**	yes
Standards / samples	100 / 10 000	**100 / 20 000**	100 / 20 000
PC software	—	**yes**	yes
Best for	Teaching, orientation	**Routine QC**	Textured and wet samples

All models: illuminant D65, LED source, silicon photodiode, built-in Li-ion battery 3 200 mAh. For spectral data, SCI/SCE and more illuminants see the CP20 spectrocolorimeters.

CC200 · configuration and support

Ordering information, configuration checklist and contact

MEASUREMENT WORKFLOW, CONFIGURATION AND SUPPORT



CC200 · routine colour difference control of plastics, paints, printed matter and textiles

Ordering information

Model	CC200 Portable Colorimeter
Geometry	8/d
Aperture	Ø8 mm
Options	Powder test box, Micro printer

Configuration checklist

Samples: size of the smallest area, surface (smooth, textured, wet), powders or granules.

Colour data: colour space and ΔE formula you report; whether spectral data or other illuminants are needed (then a spectrocolorimeter).

Use: teaching, laboratory, production line or goods receipt; stand-alone or with PC software.

SUPPLIER AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: send your sample type and the colour values you report — we confirm the model, accessories and delivery time with the quotation.

QUICK CONTACT

colo.si
sales@colo.si
+386 70 713 437

COLO.SCIENCE · COLOUR MEASUREMENT SUPPORT

Colorimeter or spectrocolorimeter?

Send your sample type and the colour data you report — we propose the instrument and confirm it with the quotation.

Request quotation | sales@colo.si | +386 70 713 437

Specifications are subject to change without notice. Values refer to standard laboratory conditions.