Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

ENTRY-LEVEL 8/D COLORIMETER · TEACHING AND ORIENTATION CHECKS

CC10

Portable Colorimeter · 8/d · Ø4 mm · CIE Lab · D65

CC10 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 under illuminant D65 and ΔE*ab — and shows pass/fail against the set tolerance. The entry model of the series, made for teaching, training and orientation colour checks: CIE Lab and ΔE*ab with a small Ø4 mm aperture. It has no white calibration plate, so it is not meant for contractual colour tolerances.

8/d | Ø4 mm aperture | CIE Lab | D65 | ΔE*ab 0.08 repeatability | 100 / 10 000 records | Li-ion battery

Document type: **Technical Specification Sheet**
Product: **CC10 Portable Colorimeter**
Format: Print layout · A4 landscape

CC10 product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue

Request quote

GEOMETRY	APERTURE
8/d	Ø4 mm
REPEATABILITY	**MEMORY**
ΔE*ab 0.08	100 / 10 000



CC10 · compact 8/d colorimeter with Ø4 mm aperture

MODEL
CC10

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

CONTACT
sales@colo.si
+386 70 713 437

CC10 · product overview

Schools and training, orientation checks of small parts and samples

CORE TECHNOLOGY

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

Measuring aperture Ø4 mm — for small areas, positioned by the cross marks.

CIE Lab and **ΔE*ab** under illuminant D65.

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, 10 000 samples stored in the instrument.

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

Optional micro printer for results at the instrument; no PC software.

PRODUCT HIGHLIGHTS



Ø4 mm aperture

Small measuring spot with cross positioning marks — placed exactly on small areas.



Simple operation

Measure the standard, then the sample: CIE Lab values and ΔE*ab on the display.



Rechargeable instrument

Built-in Li-ion battery; results stored in the instrument, optional micro printer.

APPLICATIONS



Teaching & laboratory



Plastic parts



Paints & inks



Leather & textiles



Food



Small parts

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

CC10 · technical parameters

8/d · Ø4 mm · CIE Lab · 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	Ø4 mm
Colour spaces	CIE Lab
Colour difference	ΔE*ab
Illuminant	D65
Displayed data	Colorimetric values, colour difference values, pass/fail, direction of the colour offset
Positioning	Illumination positioning and cross positioning
Calibration	No white calibration plate (factory calibration)

Repeatability	Within ΔE*ab 0.08 (white plate, average of 30 measurements)
Inter-instrument agreement	Within ΔE*ab 0.5
Display	Colour TFT display
Data storage	100 standards, 10 000 samples
Printer	Micro thermal printer (optional)
Power supply	Li-ion battery 3.7 V, 3 200 mAh
Charging	First full charge approx. 8 h
Light source life	5 years, more than 1.6 million measurements
Dimensions (L × W × H)	205 × 67 × 80 mm
Weight	approx. 500 g (with battery)

CC10 · accessories and series

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

ACCESSORIES



Micro printer

OPTIONAL

Standard delivery

Instrument	CC10 portable colorimeter
Power	Built-in Li-ion battery, power adapter
Care	Wrist strap
Documents	User guide

Optional

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.

CC10 · configuration and support

Ordering information, configuration checklist and contact

MEASUREMENT WORKFLOW, CONFIGURATION AND SUPPORT



CC10 · schools and training, orientation checks of small parts and samples

Ordering information

Model	CC10 Portable Colorimeter
Geometry	8/d
Aperture	Ø4 mm
Options	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

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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.