Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

45° AND 75° GLOSS · CERAMICS, FILMS, PAPER AND PRINTING

CG47

Dual-Angle Gloss Meter · 45° / 75° · 0–800 GU · single or both angles · 0.5 s

CG47 Dual-Angle Gloss Meter measures gloss at 45° and 75°, at one angle or at both together. These are the angles used for ceramic tiles and sanitary ware, plastic films, paper and board and printed matter, where the standard 20°/60°/85° angles do not separate the products well.

45° / 75° | 0–800 GU | JJG 696 | Measuring spot 10 × 13 mm | Measuring time 0.5 s per angle | Repeatability ±0.2 GU | AA battery or USB | 35 000 readings | Statistics · pass/fail | USB · Bluetooth option

Document type: **Technical Specification Sheet**
Product: **CG47 Dual-Angle Gloss Meter**
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CG47 product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue | Gloss Measurement Guide | Request quote



CG47 · dual-angle gloss meter

ANGLES 45° / 75°	RANGE 0–800 GU
REPEATABILITY ±0.2 GU (0–100 GU)	TIME 0.5 s per angle

MODEL
CG47

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

CONTACT
sales@colo.si
+386 70 713 437

CG47 · product overview

Dual-angle 45° / 75° gloss meter

CORE TECHNOLOGY

45° / 75° measuring angles — 45° for ceramics and films, 75° for paper, board and printed matter; one angle or both together.

Range 45°: 0–800 GU · 75°: 0–150 GU — resolution 0–100 GU: 0.1 GU · 100–800 GU: 1 GU.

Calibration standard in the base — recognised automatically at calibration; manual calibration possible.

Working gloss meter to JJG 696 — stable optics and electronics for routine use.

Repeatability — 0–100 GU: ±0.2 GU · 100–800 GU: ±0.2 %.

Measuring modes — basic, statistical, continuous and QC (pass/fail) mode; statistics and pass/fail limits.

Hand-held, approx. 300 g — one AA battery or USB power; 35 000 readings.

USB; Bluetooth with optional adapter — PC quality software for reports, tolerances and data export.

PRODUCT HIGHLIGHTS



45° and 75° together
Both values shown in one reading.



Protective base
Holds the calibration standard and protects the optics.

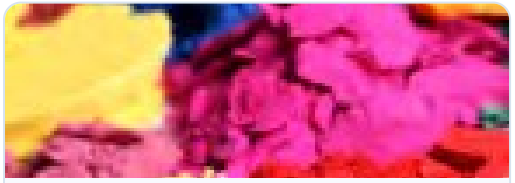


Hand-held, 300 g
Laboratory and production floor; 0.5 s per angle.

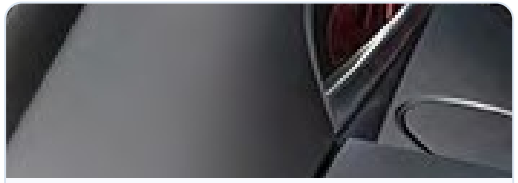


Data and printing
PC software for reports; optional mini printer and Bluetooth.

APPLICATIONS



Paints & coatings



Automotive parts



Plastics & films



Leather & interiors

CG47 · technical parameters

45° / 75° · 0–800 GU · single or both angles · 0.5 s

TECHNICAL PARAMETERS

Measuring angles	45° / 75°
Standards	JJG 696 working gloss meter
Measuring range	45°: 0–800 GU · 75°: 0–150 GU
Measuring spot	45°: 10 × 13 mm · 75°: 4 × 6 mm
Resolution	0–100 GU: 0.1 GU · 100–800 GU: 1 GU
Repeatability	0–100 GU: ±0.2 GU · 100–800 GU: ±0.2 %
Measuring time	0.5 s per angle
Measuring modes	Basic, statistical, continuous and QC (pass/fail) mode

Calibration	Calibration plate in the base, recognised automatically; manual calibration possible
Display	2.3" monochrome display, keypad
Data storage	35 000 readings
Interface	USB; Bluetooth with optional adapter
PC software	Quality-control software: reports, tolerances, data export
Power	1 × AA battery (more than 10 000 measurements) or USB power
Auto power-off	Auto power-off, 30–120 s selectable
Dimensions, weight	160 × 52 × 84 mm (L × W × H), approx. 300 g
Instrument languages	English, Chinese (simplified and traditional)
Environment	Operation 0–40 °C, storage −20–50 °C, below 85 % RH non-condensing

CG47 · what it measures and which model

Gloss units, measuring angles and the CG gloss meter series

UNDERSTANDING THE VALUES AND CHOOSING THE MODEL

What the instrument measures

Gloss is the light a surface reflects in the mirror direction. It is given in **gloss units (GU)**; polished black glass is 100 GU.

The angle matters — 60° for most surfaces, 20° above 70 GU at 60°, 85° below 10 GU at 60°; always report the angle with the value.

45° and 75° — special angles for ceramics and films (45°) and for paper, board and print (75°).

Above 100 GU — metals and mirrors reflect more than the black glass reference and can read up to about 2000 GU at 20°.

Gloss meter series — which model?

Model	CGT268	CG268	CG60	CG60M	CG47
Angles	20° / 60° / 85°	20° / 60° / 85°	60°	60°	**45° / 75°**
Max. range	2000 GU	2000 GU	1000 GU	1000 GU	**800 GU**
Small spot 2 × 4 mm	—	—	—	✓	**—**
Touch screen	✓	—	—	—	**—**
Power	Li-ion	AA / USB	AA / USB	AA / USB	**AA / USB**

CGT268 — full range with touch screen for the laboratory; CG268 — three angles in a compact instrument; CG60 — routine 60° control; CG60M — curved and small parts; CG47 — 45°/75° for ceramics, films and paper. See the Gloss Measurement Guide for choosing the angle.

Standard delivery

Instrument	CG47 with calibration plate in the protective base
Power and data	USB cable; PC quality software
Other	User guide

Options

Printer	Mini printer
Wireless	Bluetooth adapter

Typical samples

Ceramics: tiles and sanitary ware at 45°.

Plastic films: packaging and decorative films at 45°.

Paper and board: coated and uncoated grades at 75°.

Printing: printed matter, varnish and labels at 75°.

CG47 · configuration and support

Ordering information, configuration checklist and contact

CONFIGURATION AND SUPPORT



CG47 · 45° and 75° together

Ordering information

Model	CG47 Dual-Angle Gloss Meter
Angles	45° / 75°
Range	45°: 0–800 GU · 75°: 0–150 GU
Interface	USB; Bluetooth with optional adapter
Options	Mini printer, Bluetooth adapter

Configuration checklist

Surfaces: material, gloss level and whether the parts are flat, curved or small.

Angle and standard: 45°, 75° or both; the standard your customer names.

Data: tolerances, number of readings and transfer to PC or quality system.

SUPPLIER AND SUPPORT

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

Selection guidance: send the material, the gloss level you expect and the standard you report to — we confirm the angle, the model and delivery time with the quotation.

QUICK CONTACT

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

COLO.SCIENCE · COLOUR AND APPEARANCE MEASUREMENT

Measuring gloss of coatings, plastics or paper?

Send the material and the angle or standard you need — we propose the model 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.