Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

60° GLOSS · 2 × 4 MM MEASURING SPOT · CURVED AND SMALL PARTS

CG60M

Small-Aperture Gloss Meter · 60° · 2 × 4 mm spot · 0–1000 GU · 0.5 s

CG60M Small-Aperture Gloss Meter measures 60° gloss on a measuring spot of only 2 × 4 mm. It is made for surfaces where a standard gloss meter cannot sit flat: curved housings, handles, profiles, buttons, small moulded parts and even fruit.

60° | 60°: 0–1000 GU | JJG 696 | 2 × 4 mm spot | Measuring time 0.5 s | Repeatability ±0.2 GU | AA battery or USB | 35 000 readings | Statistics · pass/fail | USB · Bluetooth option

Document type: **Technical Specification Sheet**
Product: **CG60M Small-Aperture Gloss Meter**
Format: Print layout · A4 landscape

CG60M product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue | Gloss Measurement Guide | Request quote

ANGLES 60°	RANGE 0–1000 GU
REPEATABILITY ±0.2 GU (0–100 GU)	TIME 0.5 s



CG60M · small-aperture gloss meter

MODEL CG60M	ADDRESS / HQ Polje ob Sotli 4 SI-3255, Slovenia	CONTACT sales@colo.si +386 70 713 437

CG60M · product overview

60° gloss meter with 2 × 4 mm spot

CORE TECHNOLOGY

60° measuring angle — 60° on a 2 × 4 mm spot for curved, narrow and small surfaces.

Range 60°: 0–1000 GU — resolution 0.1 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 · 100–1000 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



2 × 4 mm measuring spot
For curved, narrow and small surfaces.



Calibration plate in the base
Automatic recognition of the calibration standard.

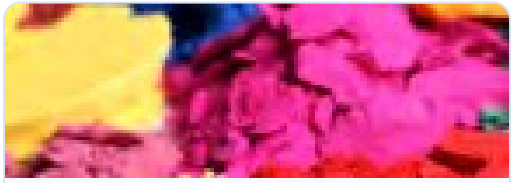


Hand-held, 300 g
Laboratory and production floor; result in 0.5 s.

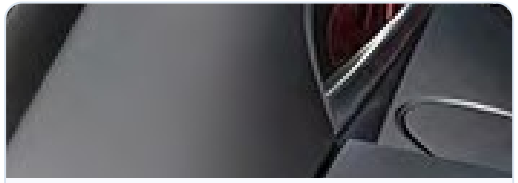


Data and printing
PC software for reports; optional mini printer and Bluetooth.

APPLICATIONS



Paints & coatings



Automotive parts



Plastics & films



Leather & interiors

CG60M · technical parameters

60° · 2 × 4 mm spot · 0–1000 GU · 0.5 s

TECHNICAL PARAMETERS

Measuring angles	60°
Standards	JJG 696 working gloss meter
Measuring range	60°: 0–1000 GU
Measuring spot	60°: 2 × 4 mm
Resolution	0.1 GU
Repeatability	0–100 GU: ±0.2 GU · 100–1000 GU: ±0.2 %
Measuring time	0.5 s
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

CG60M · 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	CG60M 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

Curved parts: housings, handles, knobs and profiles.

Small parts: buttons, inserts, small mouldings.

Electronics and hardware: visible parts, plating, anodising.

Fruit and food: surface shine, e.g. apples with edible coatings.

CG60M · configuration and support

Ordering information, configuration checklist and contact

CONFIGURATION AND SUPPORT



CG60M · 2 × 4 mm measuring spot

Ordering information

Model	CG60M Small-Aperture Gloss Meter
Angles	60°
Range	60°: 0–1000 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: 60° only, or 20°/60°/85°; ISO 2813 or ASTM D523.

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.