Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

THREE ANGLES · 0.5 S · BATTERY OR USB

CG268

Tri-Angle Gloss Meter · 20° / 60° / 85° · 0–2000 GU · ISO 2813, ASTM D523 · 0.5 s

CG268 Tri-Angle Gloss Meter measures gloss at 20°, 60° and 85° — the three standard angles for high-gloss, semi-gloss and matt surfaces — in a compact hand-held instrument. It runs on one AA battery or USB power and keeps up to 35 000 readings for transfer to the PC.

20° / 60° / 85° | 0–2000 GU | ISO 2813, ASTM D523 | Calibration plate in base | 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: **CG268 Tri-Angle Gloss Meter**
Format: Print layout · A4 landscape

CG268 product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue | Gloss Measurement Guide | Request quote

ANGLES	RANGE
20° / 60° / 85°	0–2000 GU
REPEATABILITY	**TIME**
±0.2 GU (0–100 GU)	0.5 s



CG268 · tri-angle gloss meter

MODEL
CG268

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

CONTACT
sales@colo.si
+386 70 713 437

CG268 · product overview

Compact three-angle gloss meter

CORE TECHNOLOGY

20° / 60° / 85° measuring angles — 20° for high gloss, 60° for semi-gloss, 85° for matt surfaces; all three in one press.

Range 20°: 0–2000 GU · 60°: 0–1000 GU · 85°: 0–160 GU — metals, mirrors and metallised surfaces above 100 GU included.

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

Standards — ISO 2813, ASTM D523, GB/T 9754; JJG 696.

Repeatability — 0–100 GU: ±0.2 GU · 100–2000 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.

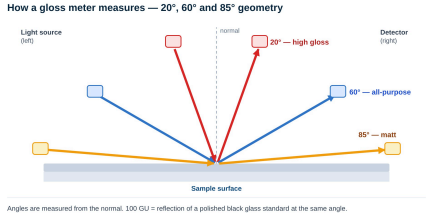
PRODUCT HIGHLIGHTS



Three angles
20°, 60° and 85° for the whole gloss range of coatings and plastics.



Calibration plate in the base
The base protects the optics and holds the calibration standard.

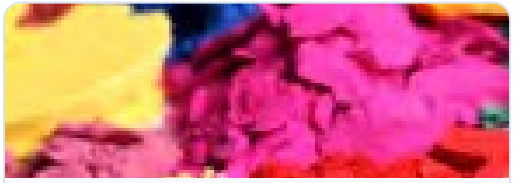


Standard geometry
ISO 2813 and ASTM D523 angles.

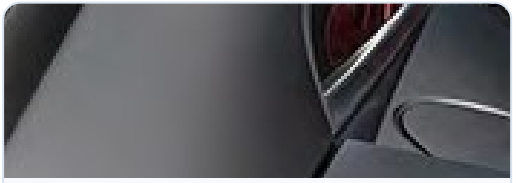


Data and printing
PC software for reports; optional mini printer and Bluetooth.

APPLICATIONS



Paints & coatings



Automotive parts



Plastics & films



Leather & interiors

CG268 product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue | Gloss Measurement Guide | Request quote

CG268 · technical parameters

20° / 60° / 85° · 0–2000 GU · ISO 2813, ASTM D523 · 0.5 s

TECHNICAL PARAMETERS

Measuring angles	20° / 60° / 85°
Standards	ISO 2813, ASTM D523, GB/T 9754; JJG 696
Measuring range	20°: 0–2000 GU · 60°: 0–1000 GU · 85°: 0–160 GU
Resolution	0.1 GU
Repeatability	0–100 GU: ±0.2 GU · 100–2000 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
Environment	Operation 0–40 °C, storage −20–50 °C, below 85 % RH non-condensing

CG268 · 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	CG268 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

Paints and coatings: batch-to-batch gloss, cured panels, powder coatings.

Plastics and automotive: moulded parts, trim, body paint.

Furniture, wood, stone: lacquer finish, polished tiles and stone.

Paper and print: coated paper, varnish, packaging.

CG268 · configuration and support

Ordering information, configuration checklist and contact

CONFIGURATION AND SUPPORT



CG268 · three angles

Ordering information

Model	CG268 Tri-Angle Gloss Meter
Angles	20° / 60° / 85°
Range	20°: 0–2000 GU · 60°: 0–1000 GU · 85°: 0–160 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.