Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

THREE ANGLES · COLOUR TOUCH SCREEN · ISO 2813 AND ASTM D523

CGT268

Touch-Screen Gloss Meter · 20° / 60° / 85° · 0–2000 GU · ISO 2813, ASTM D523, ASTM D2457 · 3.5" touch screen

CGT268 Touch-Screen Gloss Meter measures gloss at 20°, 60° and 85° at the same position with one press, from matt finishes to mirror-like metal surfaces up to 2000 GU. The large colour touch screen shows five result sets side by side, and the rechargeable battery and data memory make it suitable for the laboratory and for incoming inspection.

20° / 60° / 85° | 0–2000 GU | ISO 2813, ASTM D523, ASTM D2457 | Measuring spot 10 × 10 mm | Measuring time 1.0 s | Repeatability ±0.2 GU | Touch screen | Li-ion rechargeable | Statistics · pass/fail | USB · RS-232

Document type: **Technical Specification Sheet**
Product: **CGT268 Touch-Screen Gloss Meter**
Format: Print layout · A4 landscape

CGT268 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)	1.0 s



CGT268 · touch-screen gloss meter

MODEL	ADDRESS / HQ	CONTACT
CGT268	Polje ob Sotli 4 SI-3255, Slovenia	sales@colo.si +386 70 713 437

CGT268 · product overview

Three-angle gloss meter with touch screen

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 — the base protects the optics and the black glass standard.

Standards — ISO 2813, ASTM D523, ASTM D2457, GB/T 9754; JJG 696 first-class gloss meter.

Repeatability — 0–10 GU: ±0.1 GU · 10–100 GU: ±0.2 GU · 100–2000 GU: ±0.2 %.

Measuring modes — basic, statistical and continuous mode on the instrument; QC mode in the PC software; statistics and pass/fail limits.

3.5" TFT colour, capacitive touch screen — five result sets shown for comparison; rechargeable Li-ion battery.

USB, RS-232 — PC quality software for reports, tolerances and data export.

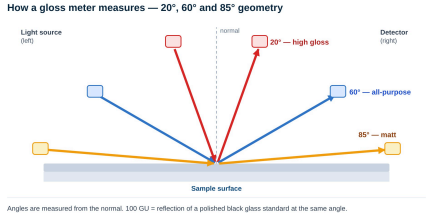
PRODUCT HIGHLIGHTS



Three angles in one press
20°, 60° and 85° values shown together for five readings.



Calibration plate in the base
Black glass standard protected in the base; calibrate before measuring.

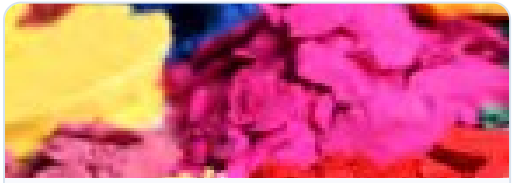


20° · 60° · 85° geometry
High gloss, all-purpose and matt — one instrument covers all.

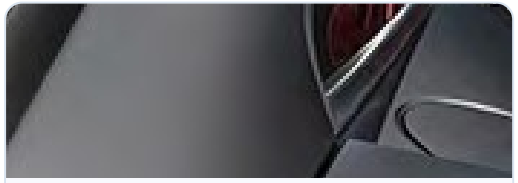


Data and reports
USB and RS-232, PC software with QC reports; mini printer option.

APPLICATIONS



Paints & coatings



Automotive parts



Plastics & films



Leather & interiors

CGT268 · technical parameters

20° / 60° / 85° · 0–2000 GU · ISO 2813, ASTM D523, ASTM D2457 · 3.5" touch screen

TECHNICAL PARAMETERS

Measuring angles	20° / 60° / 85°
Standards	ISO 2813, ASTM D523, ASTM D2457, GB/T 9754; JJG 696 first-class gloss meter
Measuring range	20°: 0–2000 GU · 60°: 0–1000 GU · 85°: 0–160 GU
Measuring spot	20°: 10 × 10 mm · 60°: 9 × 15 mm · 85°: 5 × 36 mm
Resolution	0.1 GU
Repeatability	0–10 GU: ±0.1 GU · 10–100 GU: ±0.2 GU · 100–2000 GU: ±0.2 %
Reproducibility	0–10 GU: ±0.2 GU · 10–100 GU: ±0.5 GU · 100–2000 GU: ±0.5 %
Accuracy	±1.2 GU / ±1.2 %
Measuring time	1.0 s (all three angles at one position)
Measuring modes	Basic, statistical and continuous mode on the instrument; QC mode in the PC software
Spectral response	CIE 1931 2° observer, CIE illuminant C

Calibration	Calibration plate in the base
Display	3.5" TFT colour, capacitive touch screen; 5 result sets shown for comparison
Data storage	Basic mode 1 000, statistical mode 5 000, continuous mode 5 000 readings
Interface	USB, RS-232
PC software	Quality-control software: reports, tolerances, data export
Power	3.7 V / 3200 mAh Li-ion, rechargeable; more than 10 000 measurements per charge
Dimensions, weight	160 × 75 × 90 mm (L × W × H), approx. 350 g
Instrument languages	English, Chinese
Environment	Operation 0–40 °C, storage −20–50 °C, below 85 % RH non-condensing

CGT268 · 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	CGT268 with calibration plate in the protective base
Power and data	Power adapter, USB cable; PC quality software
Other	User guide

Options

Printer	Mini printer

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.

CGT268 · configuration and support

Ordering information, configuration checklist and contact

CONFIGURATION AND SUPPORT



CGT268 · three angles in one press

Ordering information

Model	CGT268 Touch-Screen Gloss Meter
Angles	20° / 60° / 85°
Range	20°: 0–2000 GU · 60°: 0–1000 GU · 85°: 0–160 GU
Interface	USB, RS-232
Options	Mini printer

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

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+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.