

spectro-guide gloss S

Color and Gloss Control of automotive interior parts

Most people consider color and gloss harmony of the car interior to be a key item when judging the perceived quality of a vehicle. Consequently, the quality requirements for the interior design of a car have increased over the last years. A variety of materials are used and need to be harmonized. To achieve a uniform look among the interior trim parts, very tight tolerances are specified. Only instruments with excellent precision are able to objectively control the production.



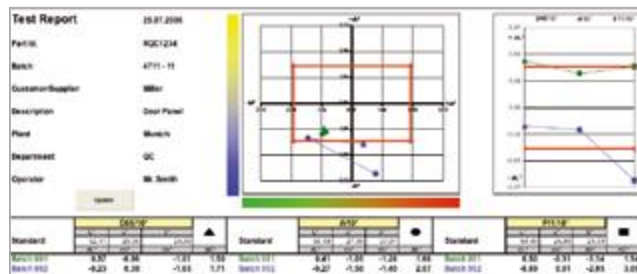
The new spectro-guide S family offers improved technical performance for 60° gloss in the low gloss range 0 - 10 GU. The excellent repeatability of ± 0.1 can be guaranteed due to a patented calibration procedure.

In addition, the spectro-guide S spectrophotometer offers unique benefits to always guarantee precise results:

- Highly repeatable results independent of measuring direction due to a patented, true circumferential illumination
- Long-term stable calibration – needed only every three months
- Temperature stable color and gloss data between 10 - 40°C
- 10 year warranty on the light source
- 10 nm resolution for precise readings on brilliant and dark colors
- Professional documentation with easy-link software

Do parts made out of different materials match?

Color differences are displayed simultaneously for three illuminants to control metamerism



Technical Specifications

Measurement Range	0 to 10 GU	10 to 100 GU
Repeatability ¹	± 0.1 GU	± 0.2 GU
Reproducibility ¹	± 0.5 GU	± 1.0 GU

¹ Standard deviation

spectro-guide Training

BYK-Gardner offers you more than just an instrument. We assist you in analyzing your color readings, understanding how to set tolerances and as a result be able to use the spectro-guide to save time and money and at the same time improve your quality. Therefore, the instrument comes with a half-day training course including:

1. Color Theory

- The building blocks of color: illuminant, observer, object
- Color differences with interpretation

2. Operation and Software Training

- Measure samples and standards by single and average readings
- Save, recall and delete measurements
- Change illuminants, observers, color scales
- Direct data transfer to easy-link



Ordering Information

Cat. No.	Description
6801	spectro-guide 45/0 gloss
6802	spectro-guide 45/0 gloss S
6834	spectro-guide sphere gloss
6836	spectro-guide sphere gloss S

Comes complete with:

Spectrophotometer; Black calibration standard; White calibration standard with certificate; Green checking reference; High gloss standard; Sample area locator; Software easy-link; Interface cable; USB-adaptor; 4 x AA batteries; Hand strap; Carrying case; Operating instructions; Color theory folder; Training

Extended Warranty: see pages about Technical Service

Free 1x preventive maintenance service during warranty period

Standards

	Color	Gloss
ASTM	D 2244, E 308, E 1164	D 523, D 2457
DIN	5033, 5036, 6174, 11664, 55988	67530
ISO	7724	2813, 7668

Certified

Please refer to section
Preventive Maintenance

Technical Specifications

Color Geometry	Gloss Geometry	Color Aperture	Gloss Aperture
45/0	60°	11 mm	5 x 10 mm
45/0	60°	11 mm	5 x 10 mm
d/8 spin	60°	11 mm	5 x 10 mm
d/8 spin	60°	11 mm	5 x 10 mm

Color

Spectral Range	400 - 700 nm, 10 nm resolution
Repeatability¹	0.01 ΔE^* (10 consecutive measurements on white)
Reproducibility¹	0.2 ΔE^* (average on 12 BCRA II tiles)
Color Systems	CIE Lab/Ch; Lab(h); XYZ; Yxy
Color Differences	ΔE^* ; $\Delta E(h)$; ΔE_{FMC2} ; ΔE_{94} ; ΔE_{CMC} ; ΔE_{99} ; ΔE_{2000}
Indices	YIE313; YID1925; WIE313; CIE; Berger; Color strength; Opacity; Metamerism
Illuminants	A; C; D50; D55; D65; D75; F2; F6; F7; F8; F10; F11; UL30
Observer	2°, 10°

Gloss

Measurement Range	0 - 100 GU
Repeatability²	± 0.2 GU
Reproducibility²	± 1.0 GU
Memory	1500 Standards, 999 Samples

Languages English; German; French; Italian; Spanish; Japanese; Chinese

Power Supply 4 AA alkaline; NiCd or MH batteries

Operating Temperature 10 °C - 42 °C (50 °F - 110 °F)

Humidity

< 85% relative humidity, non-condensing / 35 °C (95 °F)

Dimensions 9.5 x 8 x 18 cm (3.7 x 3.2 x 7 in)

Weight approx. 0.5 kg (approx. 1.1 lbs)

¹ Standard deviation

² for S-type instruments see previous page