KARG
Industrietechnik

Color Meter

spectro-guide
Total Appearance Control - color and gloss in one unit.

The overall appearance of a product is influenced by color and gloss. A sample of the same color but higher gloss level is visually perceived darker and more saturated than a low gloss sample. In order to get a uniform appearance, both attributes need to be controlled. The spectro-guide is unique as it measures both attributes simultaneously. Thus, the cause of a mismatch can be clearly defined in any situation.

Easy to use and handle
The spectro-guide makes quality control simple and secure - even for color beginners. Thanks to the intuitive pulldown menu and the four-cursor button operation quality control has never been easier.

Highly repeatable on textured surfaces
The key criterion for a 45/0 instrument is a circumferential illumination. spectro-guide 45/0 is using a unique, patented measurement principle to achieve a 100% circumferential illumination. A white coated hemisphere acts as a mixing chamber and guarantees completely uniform illumination. Thus, any influence of measurement direction is eliminated and excellent repeatability even on highly textured surfaces is guaranteed.

Always precise color values
With the new spectro-guide you can measure any color: dark - brilliant - steep reflectance curves.
The 10 nm spectral resolution not only ensures highly precise color results, but also an excellent agreement with competitive color instruments - even bench-top units.
Additionally, a patented illumination control provides temperature independent results - also in extreme conditions.

Features:

- Color (45/0 or sphere) and 60° gloss are displayed at the same time
- In compliance with international specifications
- DIN approval for gloss measurement
- Light weight and small size-weighs only 500 g
- Ergonomic design - can easily measure difficult to access areas
- Long lasting standard AA batteries - up to 8,000 readings per set
- 10 years warranty on the lightsource - no lamp charges needed
- Rugged and compact design
- Stable, long-term calibration - needed only every three months

Standards:

- ASTM D 523, ASTM D 2457, ASTM D 2244, ASTM E 308 and ASTM E 1164
- DIN 67630, DIN 5033, DIN 5036, DIN 6147 and DIN EN ISO 2813
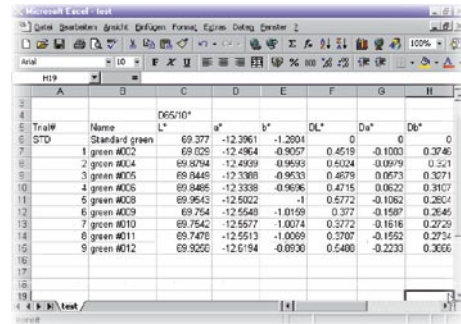- EN ISO 7668 and ISO 7724

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Software:

Profesional Documentation with easy-link

ISO 9000 requires documentation of color data. easy-link, included with spectro-guide, offers all of the necessary tools:

- Easy and direct data transfer from the instrument to Excel®
- Predefined QC-report templates (Lab-plot, trend graphs, etc.) are included
- All relevant quality data can be easily summarized in one report: Color/Gloss/Film Thickness
- Easy management of your standards

Technical data:

	spectro-guide gloss / spectro guide gloss S
Dimensions	
Width (mm)	95
Height (mm)	80
Depth (mm)	180
Weight (kg)	0,5
Characteristics Color	
Spectral range (nm)	400 ... 700
Spectral interval (nm)	10
Repeatability	0.01 ΔE*, 1 σ
Reproducibility	0.2 ΔE*, 1 σ
Color system	CIELab/Ch; Lab(h); XYZ; Yxy
Color differences	ΔE*; ΔE(h); ΔEFMC2; ΔE94; ΔECMC; ΔE99; ΔE2000
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°
Characteristics Gloss	
Gloss range	0 - 180 GU
Repeatability	0.2 GU / 0.1 (0 - 10 GU)
Reproducibility	1.0 GU / 0.5 (0 - 10 GU)
Software	
Memory	200 Standards, 999 Samples
Languages	English; German; French; Italian; Spanish; Japanese
Interface and software	serial RS 232 (easy link incl.)
Power supply	one 1,5 V - AA Alkaline Battery (10,000 readings) or external power