

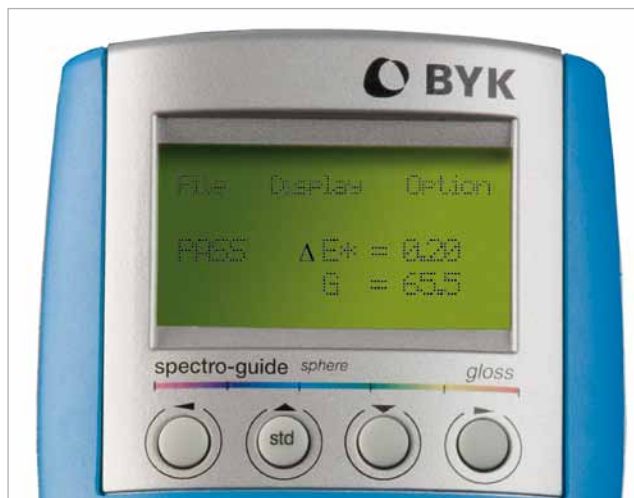
spectro-guide

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 spectrophotometer is unique as it measures both attributes simultaneously. Thus, the cause of a mismatch can be clearly defined in any situation.

- Color (45/0 or sphere) and 60° gloss are displayed at the same time
- In compliance with international specifications
- Tolerances for color and gloss allow quick pass/fail decisions in production

| Color | Gloss |
|----------|-------|
| L* 43.36 | |
| a* 44.41 | 60.6 |
| b* 25.67 | |



Easy to use and handle

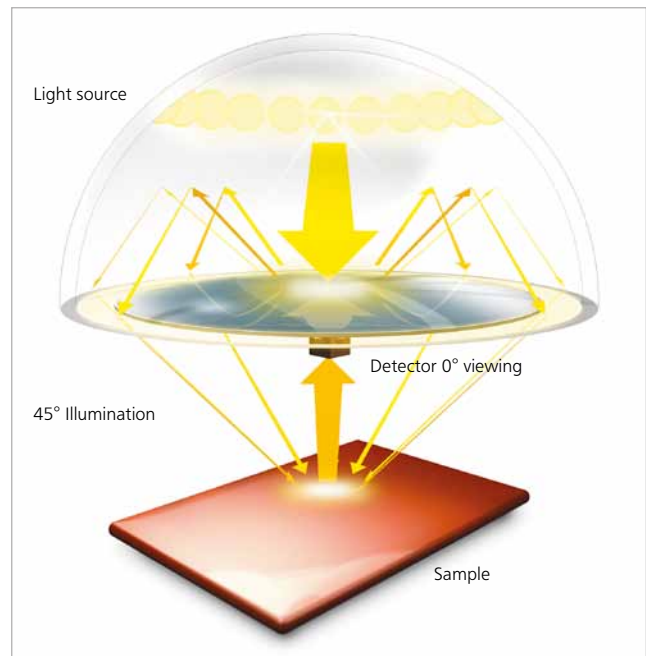
The spectro-guide spectrophotometer makes quality control simple and secure – even for color beginners. Thanks to the intuitive pulldown menu and the four-cursor button operation, quality control has never been easier.

- Light weight and small size – weighs only 500 g
- Ergonomic design – can easily measure difficult to access areas
- Designated buttons for standard and sample readings
- Customization of the display to your needs

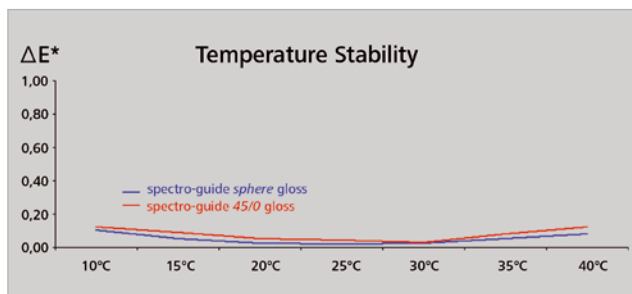
| | | |
|--------|---------|----------|
| File | Display | Option |
| Open | | |
| Save | ▶ | Standard |
| Delete | | Sample |
| Mean | | |
| Print | | |

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.



Measurement principle spectro-guide 45/0
True circumferential illumination for best repeatability on textured samples.



Always precise color values

With the new spectro-guide spectrophotometer 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 – even in extreme conditions.

Always ready to use

Economical and reliable operation of a spectrophotometer is often taken as given. spectro-guide guarantees superior accuracy for many years and low maintenance efforts.

- Long lasting standard AA batteries – up to 8,000 readings per set
- 10 year warranty on the light source – no lamp changes needed
- Rugged and compact design
- Stable, long-term calibration – needed only every three months

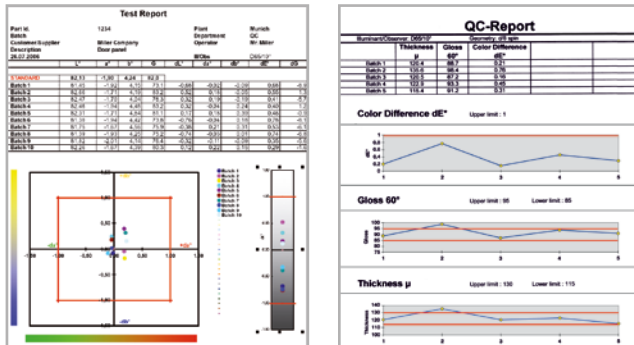


Professional Documentation with easy-link

No matter whether you want to compare a batch to a defined standard or monitor process changes over time, easy-link, included with spectro-guide, offers all of the necessary tools. Direct data transfer from the spectrophotometer into predefined QC templates makes you ready for routine color control.

Are all parts within specification?

The CIELab-Graph charts differences in color and lightness together with production tolerances.

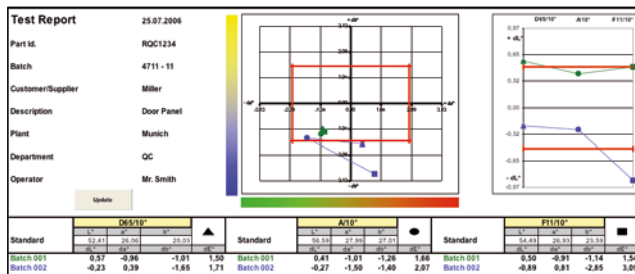


Is production stable over time?

All data are summarized in a trend graph: Color, gloss, film thickness and your own product specific information.

Do parts made out of different materials match?

Color differences are displayed simultaneously for three illuminants to control metamerism.



Ordering Information

| Cat. No. | Description |
|----------|-------------------|
| AG-4545 | BYKWARE easy-link |

Hardware Requirements:

Operating system: Windows® 2000 or higher
Excel® version: 2000 or higher including VBA
Interface: serial or USB port



Easy Standard Management

Manual entry of standard

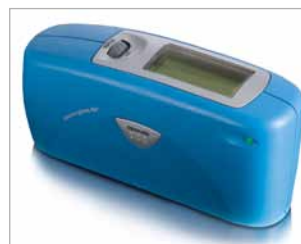
If you have to match colors and the physical sample is no longer available, you can easily enter the spectral data in easy-link. The standards can then be transferred to the spectro-guide spectrophotometer for color QC.

Back-up your standard data

For safety reasons, it is recommended to store your complete database of standards on the PC. They can be downloaded to spectro-guide – whenever needed.

Establish your tolerances

The auto tolerancing function assists you in setting up the tolerances for Pass/Fail control. Measure at least 20 visually accepted production trials, transfer the readings to easy-link and have the tolerances automatically calculated for you – saving time and headaches.



The micro-TRI-gloss also transfers gloss values to easy-link, see page 24.