ColorLite sph860

Spectrophotometer for quality control

Colour measurement:

- easy to use

- extremely flexible

- wide range of accessories

The spectrophotometer ColorLite sph860 represents a further innovation in the field of colorimetry, with extremely user-friendly features. It is a colour measuring instrument suitable for a wide range of applications, especially through the package of accessories on offer. Using a grating spectrometer with high specifications and ideal reproducibility makes the device perfect for customers with high quality demands.

Measuring Set inhomogeneous samples

Probe Head with V-Block for cylindrical samples

sph860 with probe head Adapter MA35

Scope of delivery

Features

- Flexible external probe head and a small spot size (3.5 mm Ø) for the reliable scans on curved surfaces and small samples.

- A comprehensive range of accessories and probe head adapter enables the use for a wide range of applications.

- Two main geometries (45°/0° and d/8°) avaliable in one device, by using the optional accessory MA35-UK.

- The automatic accessory detection changes internal settings depending on what accessory is attached - automatically.

- Very easy 4-button operation and graphic display
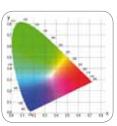
- Quality „Made in Germany".

Applications

The perfect solution for colour measurement of: plastics, textiles, leather, powders, liquids, granulates, creams, foods, cable …

Technical data

Measurement Geometry:	45°/0° according to DIN 5033 Optional d/8° with MA35-UK Adapter
Illuminants:	D65, D55, D50, A, C, F11
Standard Observer:	2° and 10°
Colour Scales:	XYZ, Yxy, ΔE CIE L*a*b*, L* u* v*, L*C*h, Hunter Lab, Pass/Fail
Spectral Range:	400 nm to 700 nm, scanning in 3.5nm steps
Display:	High resolution O-LED colour display, high contrast and low-power
Repeatability:	< 0.05 ΔE CIELab
Light Source:	White and blue LED's, extremely long life span
Scanning Time:	Complete measurement cycle 0.5 sec
Power Supply:	Rechargable battery NiMH 6-Volt / 1100 mAh – 15 hours use
Automatic Accessory Recognition:	An accessory is detected and device settings automatically modfied accordingly.
Calibration:	With white standard certified by the Federal Institute for Materials Research (Bundesanstalt for Materialforschung – BAM), Optional – 2-stage calibration with working standard
User-Mode:	Limited user rights – Password protected
Memory:	Up to 1000 standard colours, up to 1000 colour values, up to 300 spectra (400-700 nm / 3.5 nm steps)
PC-Interface:	USB 2.0, Bluetooth© (Optional), RS232 (Optional)
Accessories:	For the measurement of inhomogeneous samples, transparent, translucent and opaque liquids, powders in cuvettes or tablet form and more.
Climatic Conditions:	Ambient temperature: 15 °C to 45 °C, relative humidity: max. 85 % non-condensing

Perfect solution with PC-software

For the evaluation, analysis and making reports of the colour data, the database software ColorDaTra is in two different versions available.

Colour scale