ColorLite sph900

## Spectrophotometer with O-LED display

Colour Measurement

High resolution spectrophotometer

- Wide range of applications
- Extremely easy to operate
- Durable LED light source
- Quality: "Made in Germany"

Flexible for many applications as are all ColorLite spectrophotometers with future orientated O-LED colour display and smart interface that automatically recognises attached accessories. Using our integrating (Ulbricht) sphere adapter both a 45°/0° and the d/8° measurement geometry are available in a single system. The sph900 spectrophotometer was designed implementing newest optical components avaliable and conforms to the recomended norms or the car industry and all standards.
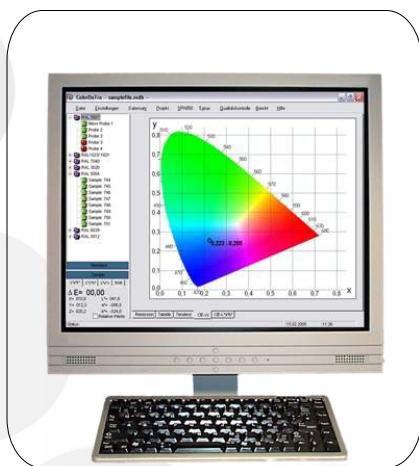
ColorDaTra PC database software for quality control tasks

Powerder Measurement

d/8° Messkopf Adapter

Features
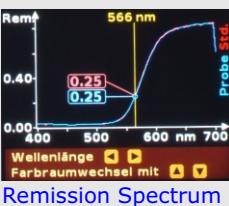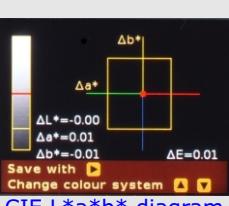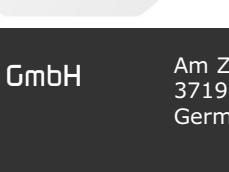
- Highly flexible external probe head makes measuring small or curved samples easy
- Light source high powered white and blue LEDs with an optimal life span
- Sprunf probe head with automatic trigger - Ideal for measuring small parts
- Smart interface with automatic identification of connected accessory

- Measurement geometries 45°/0°, d/8° or both using MA35-UK adapter according to DIN5033
- Very easy 4-button operation and high resolution colour O-LED display
- Memory space for 1000 standards, 1000 results, and 350 sample photos in 160 x 120 pixel
- Connection to a PC wireless with Bluetooth, or via USB V2.0 or optional RS232

Applications

Colour measurement for quality control applications of plastics, paints, textiles, leather, powders, granules, foods, packaging, cables in the lab or fully mobile. .
In different industries such as: automobile, plastics, chemical, food, pharmaceutical, paper ...

Technical Data

Remission Spectrum

PASS/FAIL

Colour values

CIE L*a*b* diagram

Measurement Geometry	45°/0° - or d/8° for UK Versionen - according to DIN 5033 Optional 45°/0° AND d/8° with MA35-UK adapter (Scanning area - 3 mm or 6 mm)
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 Remissions Spectrum with cursor displaying Wavelength and % CIE-L*a*b* Diagram incl. tolerance limits
Quality Control Tolerance Limits and Colour Differences	ΔE CIELab; ΔL, Δa, Δb; ΔL, Δu, Δv; ΔL, ΔC, Δh; Min/Max, PASS/FAIL ΔECMC (1:1 and 1:2), CIE ΔE94 Metameric-Index for D65/A and D65/F11 according to DIN 6172
Other Values	Contrast: LRV (Light Reflectance Value) according to - BS 8493:2008 Various White-Index values Various Yellowness-Index values Grey-Index Hazen/APHA; JOD (CA10-LS Adapter needed)
Spectral Light Source Measurement	Spectra and chromaticity measurement of light sources such as LED's - Optional
Standard/Sample Photos	350 Colour photos to visualise scanning area Dimension: 160 x 120 Pixel
Displayed Spectral Range	400 nm to 700 nm
Spectral Resolution	Holografic grating-Spectrometer FWHM @ 500 nm < 10 nm Scanning in 3.5 nm steps 115 x 16-Bit values per scan
Display	High resolution O-LED colour display: High contrast and low-power 1/4-VGA, 320 x 240 Pixel
Repeatability	< 0,03 ΔE CIELab
Light Source	white and blue LED's Lifespan > 20 years

The delivery includes:

- Certified white standard - BAM (Bundesanstalt für Materialforschung)
- Temperature controlled battery charger - Aluminium case with foam padding
- USB interface cable - Printed + CD user manual