

# ColorLite sph900

Spectrophotometer with O-LED display

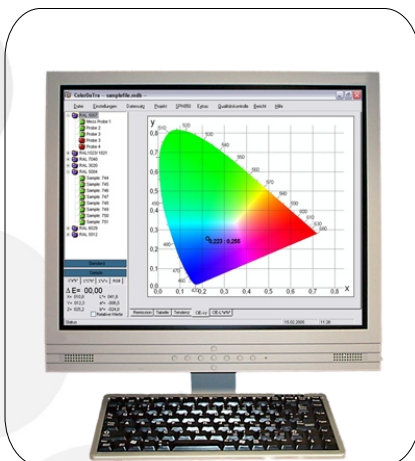


## Colour Measurement

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  $45^\circ/0^\circ$  and the  $d/8^\circ$  measurement geometry are available in a single system. The sph900 spectrophotometer was designed implementing newest optical components available and conforms to the recommended norms or the car industry and all standards.



ColorDaTra PC database software  
for quality control tasks



Powerder Measurement



d/8° Messkopf Adapter

## Features

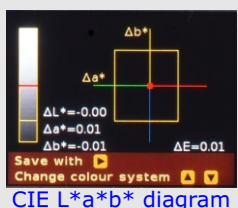
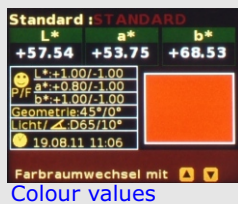
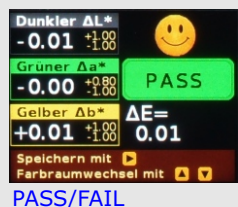
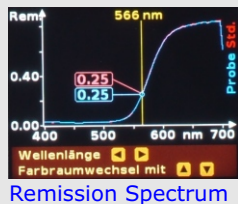
- Highly flexible external probe head makes measuring small or curved samples easy
- Light source high powered white and blue LEDs with an optimal life span
- Sprunf probe head with automatic trigger
  - Ideal for measuring small parts
- Smart interface with automatic identification of connected accessory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



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



### The delivery includes:

- Certified white standard
- Temperature controlled battery charger - Aluminium case with foam padding
- USB interface cable - Printed + PDF user manual