

ColorLite sph xs1

State-of-the-Art - Colour measuring instrument
Spectrophotometer in pocket format



Unique Selling Points:

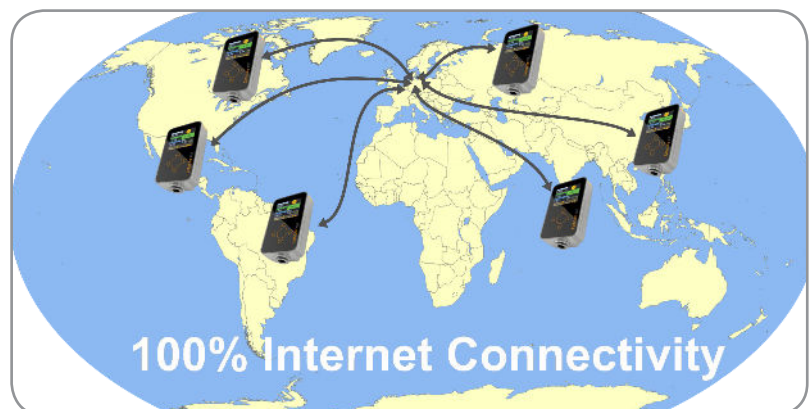
- 100% Internet connectivity via Wireless LAN
- Super mobile
- Same high resolution as a benchtop spectrophotometer
- Optional -Integrated QR/Barcode-Scanner
- Optional - 60° gloss measurement according to DIN EN ISO 2813

ColorLite XS1 „Extra Small 1“ the super mobile, high-resolution spectrophotometer in pocket format with 45°/0° geometry. Connect direct to your colour reference database from anywhere in the world, tether to your smart phone using wireless LAN.

The small sized instrument, made in Germany from a solid aluminium block, weighs just 270g. It is equipped with the latest high-definition technology allowing a high resolution spectral scan in 3.5nm steps in less than 1 second. The brilliant colour high contrast O-LED display makes a perfect user interface. The menu is simple and clear, so anyone can perform measurements fast and accurate. A further unique feature of the ColorLite XS1 is the integrated data-matrix bar-code camera. This allows for fast effect sample identification and management.



Integrated QR- and BAR-Code scanner for sample ID and name



Connection to a single colour database from the factory floor nextdoor or worldwide - with Wi-Fi tethering

Technical data

Measurement Geometry	45°/0° circular according to DIN 5033 or d/0°	Display	High resolution O-LED colour display: High contrast and low-power 1/4-VGA, 320 x 240 Pixel
Illuminants	D65, D55, D50, A, C, F11, C1, C2, C3	Repeatability	0.03 ΔE CIELab (ideal conditions)
Standard Observer	2° and 10°	Light Source	White and blue LED's Life span > 20 years
Measuring area	3.5 mm	Scanning Time	Complete measurement cycle with calculation and readout time: < 1 sec
Data Output/ Colour Scales	XYZ, Yxy, ΔE CIE L*a*b*, L*u*v*, L*C*h, Hunter Lab Remissions spektrum with cursor displaying wavelength and %, CIE-L*a*b* diagram incl. tolerance limits	Multiple Scanning	Mean calculation of 1 to 20 individual measurements with colour values and standard deviation statistics displayed
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	Calibration	With white standard certified by the PTB (Physikalisch-Technische Bundesanstalt), Optional - 2-stage calibration with working standard
Other Values	Contrast: LRV (Light Reflectance Value) according to - BS 8493:2008 Various White-Index values Various Yellowness-Index values Grey-Index	Memory	Memory for 1000 standard colours Memory for 1000 colour values Memory for 300 spektra (400-700nm / 3.5nm) Memory for 350 sample-photos (160 x 120 Pixel)
Spectral Light Source Measurement	Spectral and chromaticity measurement of light source such as LED's – optional	Power Supply	Lithium Polymer-battery operation time > 15 hours Charging time 1.5 hours
Gloss value (optional)	60° according to DIN EN ISO 2813 (old DIN 67530)	Upload Standards from PC	Yes
Scanner (optional)	Data-Matrix and Bar-Code	Standard Colour Management	Standards loaded by - list with Best-Match tool - entering index-no. - entering name
Sample photos	350 colour photos to display scanning position dimension: 160 x 120 Pixel	PC and Internet Connection	USB 2.0 Wireless LAN
Displayed Spectral Range	400 to 700nm	Dimensions	Device with battery: 120mm x 70mm x 32mm, weight 270g
Spectral Resolution	Holografic grating-Spectrometer FWHM** @ 500 nm < 10 nm Scanning in 3.5 nm interval 115 x 16-Bit steps per scan	Climatic Conditions	Ambient temperature: 15°C to 45°C Relative humidity: max. 85% non-condensing

Included in the delivery are:

- White standard with PTB certificate - PTB (Physikalisch-Technische Bundesanstalt)
- Aluminium case with foam padding
- Battery charger, USB cable and instruction manual

