

# ColorLite sph xs1



**State-of-the-Art - Spectrophotometer  
Maximum Precision in a Pocket-Sized Device**



## Features:

- ✓ Internet-enabled
- ✓ Extremely compact and mobile
- ✓ Resolution comparable to a benchtop spectrophotometer
- ✓ Integrated QR / barcode scanner
- ✓ Optional: 60° gloss measurement according to DIN EN ISO 2813

The ColorLite XS1 is a highly mobile, high-resolution spectrophotometer with 45°/0° geometry for the highest demands and maximum flexibility. Compact enough to fit into your pocket, yet powerful enough for highly professional applications. The XS1 connects your production sites worldwide via Wi-Fi, ensuring fully consistent color standards in real time.

Manufactured in Germany from a solid aluminum block, the XS1 combines robustness with elegance. Weighing only 270 g, it delivers state-of-the-art technology with spectral scanning in 3.5 nm increments and a measurement time of less than one second. The brilliant OLED display ensures clear presentation of measurement data. The intuitive menu navigation enables fast, safe, and user-friendly operation. The integrated Data Matrix and barcode camera ensure fast sample identification and efficient sample management.

## The ColorLite XS1: Compact in size. Powerful in performance:



Integrated QR and barcode scanner for sample ID and naming



Direct connection to color databases: From the production floor next door or worldwide — with Full wireless connectivity

## Technical Data

Measurement Geometry	45°/0° circular according to DIN 5033 or d/0°	Scanner (Optional)	Data-Matrix and Bar-Code
Illuminants	D65, D55, D50, A, C, F11, C1, C2, C3	Repeatability	< 0.03 $\Delta E$ CIELab (ideale 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, $\Delta E$ CIE L*a*b*, L*u*v*, L*C*h, Hunter Lab Remissions spektrum with cursor displaying wavelength and %, CIEL* 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	$\Delta E$ CIELab; $\Delta L$ , $\Delta a$ , $\Delta b$ ; $\Delta L$ , $\Delta u$ , $\Delta v$ ; $\Delta L$ , $\Delta C$ , $\Delta h$ ; Min/Max, PASS/FAIL $\Delta E_{CMC}$ (1:1 and 1:2), CIE $\Delta E_{94}$ Metamer-Index for D65/A and D65/F11 according to DIN 6172	Memory	Memory for 1000 standard colours Memory for 1000 colour values Memory for 300 spektra (400-700 nm / 3.5 nm) Memory for 350 sample-photos (160 x 120 Pixel)
Other Values	Contrast: LRV (Light Reflectance Value) according to - BS 8493:2008 Various White-Index values Various Yellowness-Index values Grey-Index	Calibration	With white standard certified by the PTB (Physikalisch-Technische Bundesanstalt), Optional - 2-stage calibration with working standard
Spectral Light Source Measurement	Spectral and chromaticity measurement of light source such as LED's – optional	Power Supply	Lithium Polymer-battery Charging time 1.5 hours
Sample photos	350 colour photos to display scanning position dimension: 160 x 120 Pixel	Standard Colour Management	Standards loaded by - list with Best-Match tool - entering index-no. - entering name
Displayed Spectral Range	400 to 700 nm	Upload Standards from PC	Yes
Spectral Resolution	Holografic grating-Spectrometer FWHM** @ 500 nm < 10 nm Scanning in 3.5 nm interval 115 x 16-Bit steps per scan	PC and Internet Connection	USB 2.0 / Wi-Fi
Display	High resolution O-LED colour display: High contrast and low-power 1/4-VGA, 320 x 240 Pixel	Dimensions	Device with battery: 120 mm x 70mm x 32 mm, weight 270 g
Gloss value (optional)	60° according to DIN EN ISO 2813 (old DIN 67530)	Climatic Conditions	Ambient temperature: 15°C to 45°C Relative humidity: max. 85 % noncondensing

## Scope of Delivery

- Certified PTB white standard (Physikalisch-Technische Bundesanstalt)
- High-quality soft case with foam insert
- USB connection cablel, Battery charger, Operating manuals

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