

ColorLite sph xs1

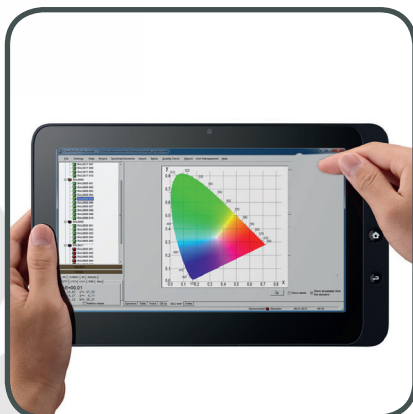
Spectrophotometer in pocket format



Spectral colour measurement:

- Easy to use
- Long-life LED light source
- Unibody aluminium casing
- High quality „Made in Germany“
- Optional: 60° gloss measurement

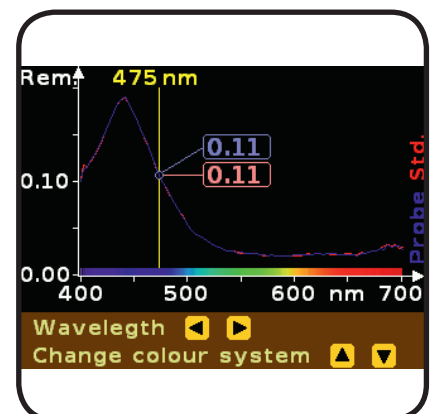
The new mobile spectrophotometer with a 45°/0° geometry in a pocket format is suitable for a variety of surfaces and materials. Despite its small size and weighing just 240g, it is equipped with the latest high-definition technology. This allows a spectral scan in 3.5nm steps and a measurement time of less than 1 second. The brilliant colour reproduction of the O-LED display makes it easy for users to read. The menu is simple and clear, so that even untrained employees can perform the measurement fast and accurate. The user interface consists of tempered glass, with the body made from a solid aluminium block making it very robust. Due to the size an one-handed operation of the device is possible.



ColorDaTra PC-Software



3D-view



Remission spectrum

Technical data

Measurement Geometry	45°/0°	Light Source	White and blue LED's Life span > 20 years
Illuminants	D65, D55, D50, A, C, F11	Scanning Time	Complete measurement cycle with calculation and readout time: 0.5 sec
Standard Observer	2° and 10°	Multiple Scanning	Mean calculation of 1 to 20 individual measurements with colour values and standard deviation statistics displayed
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	Power Supply	Lithium Polymer-Akku Operating time > 15 hours Charging time 1.5 hours
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 Federal Institute for Materials Research (Bundesanstalt für Materialforschung -BAM), 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 Hazen/APHA; JOD (CA10-LS adapter needed)	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 sources such as LED's – optional	Upload Standards from PC	Yes
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 - index-no. - entering name
Displayed Spectral Range	400 to 700nm	PC-Interface	USB 2.0 Bluetooth® or WLAN - optional
Spectral Resolution	Holographic grating-Spectrometer FWHM** @ 500 nm < 10 nm Scanning in 3.5 nm steps 115 x 16-Bit values per scan	Dimensions	Device with battery: 120mm x 70mm x 32mm - 240g
Display	High resolution O-LED colour display: High contrast and low-power 1/4-VGA, 320 x 240 Pixel	Climatic Conditions	Ambient temperature: 15°C to 45°C Relative humidity: max. 85% non-condensing
Repeatability	< 0.03 ΔE CIELab		

Included in the delivery are:

- BAM Certificate - BAM (Bundesanstalt für Materialforschung)
- Carrying case with foam padding
- Battery charger
- USB cable