

COMPETENCE IN

COLOR



The LCS III Colorimeter

Superior Colorimeter

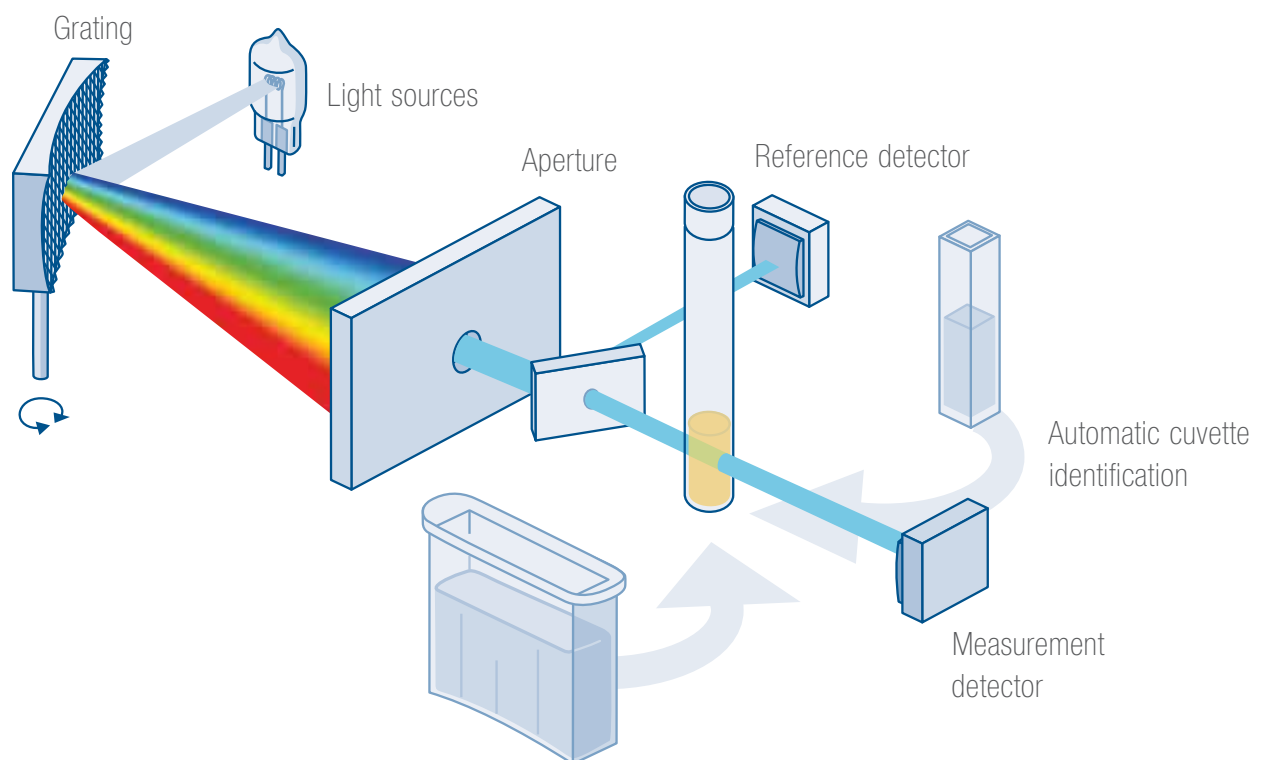


LABORATORY ANALYSIS
SPECTRAL COLOR MEASUREMENT

THE STANDARD IN MEASURING
COLOR

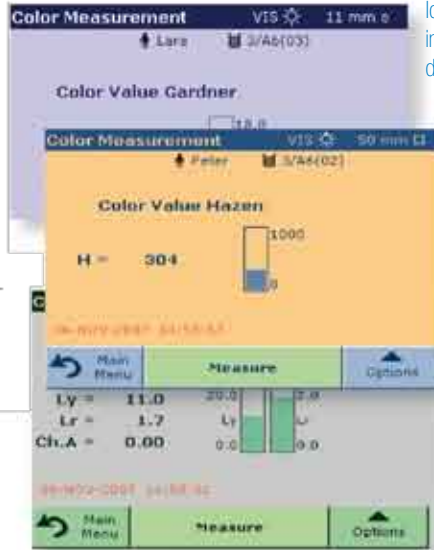
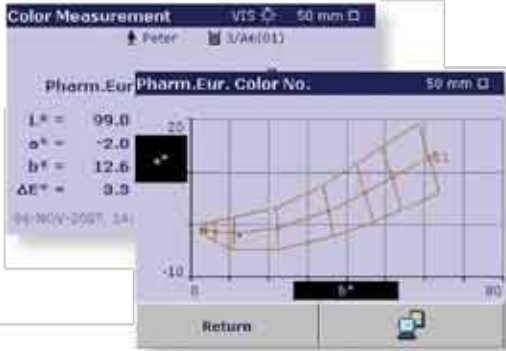
Professional Color Measurements: The LCS III Colorimeter

- Reliable operation through intuitive menu guidance and archived user profiles
- All important color scales included
- Correct measurement results thanks to automatic cuvette identification
- High level of measurement reliability through a comprehensive set of test aids
- Only 7 seconds per measurement



Exact and reproducible measured values: determinations of the spectral color value with a resolution of 10 nm, together with automatic cuvette identification, guarantees unsurpassed measurement reliability. One advantage of the spectral measurement is long-term stability, as in contrast to filter photometers, no ageing occurs.

Color stability and product ageing at a glance:
The Pharm. Eur. diagram shows where the measured value is located.



Ideal for several users: 100 user profiles can be archived with individual configurations. Password protection and user-specific display colors support secure access.

The dynamic measuring range bar shows clearly where the value is located in the color scale. Adaptable measuring range limits satisfy user requirements perfectly.

Reliability through automated quality checks: LCS III automatically provides reminders of for certified test filters, calibration and service interval.



- The appropriate cuvettes for each application:
- 11 mm round cuvettes, 10 mm or 50 mm rectangular cuvettes
 - Glass or plastic cuvettes
 - Disposable or reusable high-precision cuvettes



LATEST TECHNOLOGY

LCS III is a safe investment, as its 22 integrated color scales cover all requirements:

- Conventional scales such as iodine, Hazen (Pt Co), Gardner, Pharm. and Eur.
- Specific scales such as Saybolt or ASTM.

One important benefit is LCS III's high level of flexibility in quality control: measured values can be evaluated in all scales, also after the event with archived spectral data.

UP TO DATE FOR ROUTINE ANALYSIS

LCS III impresses with its intelligent technical features:

- Simple integration into the existing laboratory network through USB connection
- Working storage for 500 measured values and 50 color value references
- Simple to use thanks to clear instructions on color touchscreen
- Uncomplicated handling as measurements are carried out in an open compartment

The LCS III Colorimeter	
Spectrophotometer	Art. no. LMV185.99.00001
Operating modes	Spectral color and color difference measurement, single and multiple wavelength measurement, wavelength and time scans, absorbance and concentration measurement
Color value systems	Iodine, Pt Co (Hazen, APHA), Gardner, Saybolt, ASTM D 1,500 (mineral oil), Klett, Chlorophyll A, ADMI, Hess-lves, Yellowness index, AOCS y/r, CIE-L*a*b*, Hunter-Lab, EU and US Pharmacopoeia
Wavelength range	320–1,100 nm / 1 nm; color measurement: 380–720 nm / 10 nm
Wavelength accuracy	±1.5 nm in the range from 340 to 900 nm
Wavelength reproducibility	≤0.1 nm
Wavelength resolution	1 nm
Scan rate	≥12 nm/s in 1 nm steps (46 s / 340–900 nm)
Photometric accuracy	5 mAbs at 0.0–0.5 Abs; 1 % at 0.5–2.0 Abs
Beam path	Halogen lamp 6 V / 10 W, concave grating, reference beam technology
Cuvette sizes	11 mm round, 10 mm and 50 mm rectangular
Cuvette identification	Automatic with calibration memory
Display	Backlit TFT color display (320 × 240 pixels) as touchscreen
Memory	500 color measurement values, 50 color reference values, 500 individual absorbance values, 20 wavelength scans
Ports	USB access: 1 type A, 1 type B, for USB stick, keyboard, hand-held scanner, printer
Protection class	IP 32
Power requirement	100–240 V, 50–60 Hz / 30 VA
Dimensions, weight	(W × H × D) 368 × 144 × 359 mm; 6.4 kg



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