

Liquid Color

LCS IV

The LCS IV is a highly precise color instrument which spectrally measures all color shades of optically clear, transparent liquids using the dual beam principle. Besides the conventional visual color numbers (Gardner, Iodine, Hazen etc.), the LCS IV can also measure opponent color systems such as CIELAB, CIELCH and Hunter Lab under the conditions of illuminant A, C, D65 and 2°/10° Standard Observer.

- Stand alone unit with built in 7" touch-screen display allows use without the need of a PC
- All important color scales and indices included
- Automatic cuvette detection – avoids faulty data measurement
- Designed for the use of disposable plastic cuvettes, high precision glass cuvettes or 11 mm tubes
- Easy to exchange rectangular cell compartment
- High measurement reliability is guaranteed by comprehensive verification kits
- Use profile memory with password protection for individual configurations – including GLP documentation
- Open sample compartment for ease of operation
- Front USB interface for PC or printer connection
- Easy data transfer into existing networks through integrated Ethernet (LAN) interface



Standards

AOCS	Method Cc 13e; Method BS 684 Ly/Lr
ASTM	D 156, D 848, D 1045, D 1209, D 1544, D 1925, D 1500, D 5368, E 308
DIN	5033, 6162, 6174
ISO	4630, 6271, 2049, 27608

Ordering Information

Cat. No.	Description
9562	LCS IV

Comes complete with:

Instrument with dust cover
External power supply
Adapter for 10 mm rectangle cuvettes
addista® – color standards
Disposable plastic cuvettes (10x50 mm) – pack of 10
Disposable glass cuvettes (11 mm) – pack of 10
Operating manual

Technical Specifications

Voltage	110 – 240 V / 50/60 Hz
Geometry	0° / 180° rectilinear
Spectral Range (Colorimetric)	380 to 720; 10 nm resolution
Spectral Range (Photometric)	320 to 1100 nm; 1 nm resolution
Repeatability	0.1 ΔE^*
Reproducibility	± 0.2 % Transmission
Light Source	Tungsten Halogen Lamp
Illuminant/Observer	D65; A; C / 2°; 10°
Color Scale	CIELAB; CIELCH; Hunter Lab
Color Difference	ΔE^* and component differences, text descriptor, tolerances
Indices	Gardner; Hazen/APHA; Iodine; Saybolt; Lovibond; Hess-Ives; European, US and Chinese Pharmacopoeia; Mineral oil; Yellowness; Acid Wash Test; ADMI
Spectral	% transmission; % absorbance; concentration
Memory	3000 color measurements; 100 color references; 1000 photometric readings
Data Export	*.csv file to USB memory stick or Ethernet
Interface	2x USB Type A; 1x USB Type B; 1x Ethernet
Temperature	10 to 40°C (50 to 104 °F)
Humidity	up to 80%, 35°C (95°F); non condensing
Dimensions	151 x 350 x 250 mm (5.9 x 13.7 x 9.8 in.)
Weight	4.2 kg (9.25 lbs)