

# 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



170 Shields Court Unit 2  
Markham, ON L3R 9T5  
TEL: (905) 475-5880 ext. 226  
FAX: (905) 475-1231

### Technical Specifications

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