Lico Spectral Colorimeter

LENNTECH
WATER TREATMENT SOLUTIONS



Applications

- Chemical
- Food and beverage
- Petrochemical industry
- Pharmaceutical

Competence in Colour

The spectral colour measurement of clear liquids is indispensable in many fields and serves as a quality assurance method for solvents, paints and pharmaceuticals. The highest measuring reliability is essential. Hach® ensures simple, fast measurements for the user. More than 25 years of expertise in the development of colorimeters have gone into the Lico line of instruments.

All important colour scales included in one instrument

The Lico 620 with up to 5 colour scales is designed for fast routine measurements in the laboratory and in production facilities. It is already in use in a wide variety of areas in the chemical industries for quality and production control, e.g. to assess surfactants, oils, fats, resins and synthetic resins.

The Lico 690 Spectral Colorimeter is flexible to use and works with many applications, such as chemical, pharmaceuticals, oil industries and the food and beverage industry. 26 colour scales are directly integrated in the instrument: conventional scales like iodine, Hazen (Pt Co), Gardner, Pharmacopoeia as well as specific scales like Saybolt or ASTM.

Simple integration into the laboratory network through Ethernet connection

Lico instruments can be easily integrated to existing laboratory networks through an Ethernet interface.

High level of measurement reliability through a comprehensive set of test aids

Certified test filters, reproducible standard colour solutions and an integrated implementation of AQA (Analytical Quality Assurance) ensure optimum measurement reliability. Measured values can be evaluated in all scales, even post-measurement with archived spectral data.

Easy handling

The measurement process starts automatically when the sample cell is inserted, and the measurement vial is identified by the instrument. The easy-to-change cell compartment facilitates cleaning and/or replacement.

The operation of the Lico colorimeters requires only minimum training effort thanks to clear instructions on the colour touch-screen.

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Technical Data*

Model	Lico 620	Lico 690
Colour Scales	DIN 6162 iodine; ISO 6271 Hazen (Pt/Co, APHA, ASTM D1209, D5386); ISO 4630 Gardner (ASTM D1544, D6045); ASTM D 156 Saybolt; ASTM D 1500 mineral oil	European, US and Chinese Pharmacopoeia (EP, USP, CP); DIN 6162 Iodine; ISO 6271 Hazen (Pt/Co, APHA, ASTM D1209, D5386); ISO 4630 Gardner (ASTM D1544, D6045, D6166); ISO 27608 Animal and Vegetable Fats and Oils; ISO 11664 Colorimetry; ASTM E308 CIE Color; ASTM D156 Saybolt; ASTM D1500 Mineral Oil (ISO 2049); ASTM D848 Acid Wash Test; ASTM D1925 Yellowness Index (ASTM D5386); AOCS Cc13e, BS 684 Ly/Lr; ADMI, ICUMSA, EBC, ASBC, Hess-Ives
Memory	400 colour readings	100 colour references; 1000 photometric values; 20 wavelength scans; 20 time scans; 3000 colour readings
Spectral scan	No	Yes (320 nm - 1100 nm)
Sipper (optional)	No	Yes
Display	TFT WVGA colour graphic touch-screen	
Display size	17.8 cm (7 in.)	
Optical system	0° / 180° rectilinear	
Source lamp	Tungsten halogen lamp	
Wavelength range	380 nm - 720 nm used for colorimetric calculations	
Dimensions (H x W x D)	151 mm x 350 mm x 255 mm	
Power requirements (Voltage)	100 - 240 V AC	
Includes	Cell adapter, dust cover, power supply, user manual	

**Subject to change without notice.*

Order Information

Instruments

LMV187.99.20001	Lico 620 Colorimeter for up to five colour scales
LMV187.99.40001	Lico 690 Professional Spectral Colorimeter with more than 25 colour scales included

Accessories & Replacement Parts

LZM282	Set of 6 certified standard colour solutions
LZM339	Lico test filter set
LZM354	Lico starter set (includes LZM282, 10 sample cells of each 11 mm and 50 mm)
LZM369	Adapter for cuvettes Z (Lico 6xx)
LYY214	Disposable sample cells, 10 x 10 mm, plastic, pk/1000
LYY621	Disposable sample cells, round, 11 mm, pk/560
LZM130	Sample cells, rectangular, 50 x 10 mm, plastic, pk/50
LZP045	Sample cells, 10 x 10 mm, glass, pk/3
LQV157.99.30001	SIP10 Sipper set, 1 cm, Quartz
LZM368	Replacement cell compartment, 50 mm rectangular, Lico 6xx
LZV565	Replacement halogen bulb

DOC052.52.25021.Jan18

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