



Professional colour measurements

LICO 500 Spectral colorimeter

Order number: LMV185.99.00001

Spectrophotometer for colour measurements of clear, transparent liquids with reference beam technology

- **Reliable operation through intuitive menu guidance and archivable user profiles**
- **Automatic cuvette identification**
- **All important colour scales included**
- **High level of measurement reliability through a comprehensive set of test aids**
- **Only 7 seconds per measurement**

Exact colour calculations which conform to several DIN-ISO-ASTM standards or AOCS Methods are done with only one measurement. Traditional visual colour values like the iodine colour value, Hazen or Gardner are displayed as well as modern colour systems, e.g. CIE-L*a*b* or colour measurements corresponding to European or US pharmacopeia.

Also transmission, extinction measurements and wavelength scans are possible so that the instrument has a multi purpose in the laboratory or production.

Technical Specifications

Beam Height	10 mm
Cuvette compatibility	50 mm Rectangular cuvette
Cuvette compatibility	10 mm Rectangular cuvette
Cuvette compatibility	11 mm Round vial
Data storage	20 time scans
Data storage	500 colour readings
Data storage	20 wavelength scans
Data storage	50 colour references
Data storage	500 photometric values
Display	Colour touch screen

Display	320 pixel - 240 pixel
Display size	5 inch
Display type	Colour Graphic
Includes	cell adapter, dust cover, power supply, manual
Interface	1 USB Type A
Manual languages	English, French, German, Italian
Max. Storage Humidity	80 %
Max. operating humidity	80 %
Operating Temperature Range	10 to 40 °C
Optical path length	10 mm - 50 mm
Optical system	0 ° / 180 ° rectilinear
Photometric accuracy	1 % at 0.5 to 2.0 Abs
Photometric accuracy	0.005 Abs at 0 to 0.5 Abs
Photometric linearity	1 % at >2 Abs with neutral glass at 546 nm
Photometric linearity	< 0.5 % to 2 Abs with neutral glass at 546 nm
Photometric measuring range	± 3.0 Abs (wavelength range 340-900nm)
Power supply	30 VA
Power supply	47 Hz - 63 Hz Wall Socket Power Adapter
Power supply	100 V - 240 V Wall Socket Power Adapter
Repeatability	0.1 E*
Reproducibility	± 0.2 % transmission
Safety checks	CE
Scanning speed	12 nm/s (in steps of 1nm)
Spectral Bandwidth	5 nm
Storage conditions	-40 °C to 60 °C
User interface	English, French, German, Italian, Spanish, Czech, Dutch, Greek, Polish, Slovenian, Slovak, Russian, Turkish, Chinese, Japanese, Korean
Warranty	2 years
Wavelength accuracy	± 1.5 nm (wavelength range 340-900 nm)
Wavelength calibration	automatic

Wavelength range	320 to 1100 nm
Wavelength reproducibility	0.1 nm
Wavelength resolution	1 nm
Weight	6.4 kg