

# LIVI-300

## Visible Spectrophotometer

LIVI-300 series visible spectrophotometers are single beam, general purpose instrument designed to meet the needs of the laboratories for analysis. It is ideal for various application fields such as, chemistry, medicine, environmental protection, food and beverage, wine industry and quality control.

- *325 - 1000 nm*
- *Compact structure*
- *Easy operation*
- *Digital display*
- *Flexible Sample Compartment*
- *Both Manual and Computer Interfaced*
- *Cost Effective*
- *CE and C-tick Compliance*

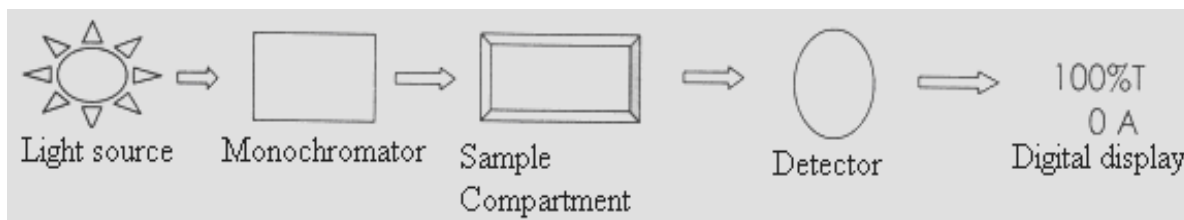


### Specifications

Optical System	Single beam, grating: 1200 lines/mm
Wavelength Range	325-1000nm
Wavelength Accuracy	± 2nm
Wavelength Repeatability	1nm
Photometric Range	0-125%T, 0-2.0A, 0-1999C(0-1999F)
Photometric Accuracy	±1.0%T
Photometric Repeatability	≤ 0.5%T
Stray Light	≤ 0.5%T at 340nm and 400nm
Bandwidth	5nm
Data Output	RS-232
Power	220~240VAC/50Hz or 110VAC/60Hz
Standard Holder Installed	Test tube holder (8 to 25mm diameter) or 4-position cuvette holder
Dimensions	408 x 308 x 180mm
Weight	6.5 kg
Shipping Dimensions	496 x 410 x 286mm
Shipping Weight	8.6 kg



**LIVI-300 spectrophotometer** consists of five parts: **Light Source** (Halogen Lamp), a **Monochromator** to isolate the wavelength of interest, a **Sample Compartment** to accommodate the sample solution, a **Detector** and a **Digital Display** to show absorbance/transmittance.



### Application software

LIVI-300 is a windows-based software and runs on a PC with 95/98/Me/XP operating systems. The software offers two additional analytical methods: **Standard Curve** and **Absorbance vs. Time Kinetics**. It operates in the following three modes:

#### Absorbance /% transmittance/Concentrations:

Measures absorbance at a given wavelength within the range of 325 -1000nm.

#### Standard Curve:

Creates a calibration curve (choice of 4 curve fits) with up to 8 standard solutions at a given wavelength to determine the concentrations of unknown samples

#### Absorbance vs. Time Kinetics:

Measures a sample's absorbance change over a period of time, store the test results, display the results graphically, and calculate the reaction rate within a given time interval.

### Parts included

Description	Qty	
	LIVI-300	LIVI-301
10 mm Optical Square Cuvette	Box of 4	Box of 4
10 mm Black block	1	
Test Tube V-type Holder (8 to 25mm diameter)	Installed	
10 mm Single Cuvette Holder	1	
4-Position Cuvette Holder		Installed
User's Manual	1	1
Software CD	1	1
RS232 Cable	1	1
Power Cord	1	1
Dust Cover	1	1

### Optional Accessories

**Test Tube V-type Holder** (LIVI-300-101)  
8-25mm diameter test tubes. Includes universal base, V-type tube holder.



**Single Cuvette Holder** (LIVI-300-102)  
10mm square cuvette.



**4-Position Cuvette Holder** (LIVI-300-103)  
10mm square cuvette.



**Longpath 4-Cuvette Holder** (LIVI-300-104)  
50mm rectangular cuvette.



**Water-jacketed Cuvette Holder** (LIVI-300-105)

