

V1150 Spectrophotometer

Visible Spectrophotometer



Mapada is a high-tech company specialized in development, production and sale of UV/VIS Spectrophotometers. With 12 years of manufacturing experience, Mapada has obtained ISO9001, ISO14001, OHSAS18001, CE-EMC and ROHS Certificate. This model supplied with Calibration Certificate KAN (Komite Akreditasi Nasional).

V1150 comfortable setting off wavelength, but precise design and high quality components ensures excellent performance. It is widely used in high schools and colleges for general analysis and experiments.

Features:

- TFT color screen
- Self-check system, Auto Zero and Blank
- Wavelength can be read out from the screen directly
- Large sample compartment, it can be accommodate 5-100 mm path length cuvettes with optional holders
- Pre-aligned design ensures the user can change lamp conveniently
- It can be connected to a PC through USB port, and controlled by software; Advanced functions such as wavelength scan, kinetics, and multi-wavelength can be realized.
- High quality silicon photometric diode detector and 1200 lines/mm grating ensure high accuracy and precision

Functions:

Absorbance measurement

Measure the absorbance value of the sample.

Transmissivity measurement

Measure the transmittance of the sample.

The calibration standard sample measures the inknown sample concentration

By measuring the absorbance value of a standard sample and entering the corresponding concentration, a standard curve is established with the origin, and the concentration of unknown sample is measured using the standard curve.

Enter the equation coefficient to measure the concentration

A standard curve is establish by inputting the coefficients K and B of the standard curve equation $C=KA+B$, and the standard curve is used to measure the concentration of the unknown sample.

Energy measurement

Measure the light energy value of the sample and set energy gain as needed.

Model: V-1150

Wavelength Range: 320-1050nm

Spectral Bandwidth: 4nm

Optical System: Single Beam , Grating 1200 lines/mm

Light Source: Tungsten lamp

Wavelength Accuracy: ± 1 nm

Wavelength Repeatability: ≤ 0.5 nm

Wavelength Resolution: 0.5nm

Wavelength Selection: Automatic

Wavelength Calibration: Automatic Calibration After ON

Wavelength Moving Speed: 10,000nm/s

Photometric Accuracy: $\pm 0.5\%$ T (0~100%T)

Photometric Repeatability: $\pm 0.2\%$ T (0~100%T)

Photometric Range: 0-200%T , -0.3 - 3A, 0~1999C

Stray Light: $\leq 0.2\%$ T (360nm)

Stability/ Noise: ± 0.001 A/h @500m

Display: 3.2 inch TFT color LCD screen (Resolution: 400x240)

Interface: RS232 serial port x (printer), USB-B x 1 (PC)

Sample Compartment: Standard 10nm pathlength cuvette

Output: USB Port & Parallel Port (printer)

Work Environment: 16-35°C, 15-80% Relative Humidity

Power Requirement: 100~240 VAC, 50/60Hz, 75 W

Dimensions(WxDxH): 450x360x160 mm, Weight: 10 kg