



## UV1150 Spectrophotometer

### UV/Visible Spectrophotometer



**User-friendliness, High Accuracy, Reliability and Convenience**

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.

UV-1150 UV/Vis Spectrophotometer. Through simple parameter setting, the Photometric Test can be easily started, and functions such as Wavelength Scan, Kinetics, etc. can be realized through Mapada analysis software.

#### Features:

- 3.2 inch TFT color LCD screen
- Self-check system, Auto Zero and Blank
- Wavelength can be read out from the screen directly
- Large sample compartment, it can 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 unknown 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 established 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: UV-1150

Wavelength Range: 195-1050nm

Spectral Bandwidth: 4nm

Optical System: Single Beam, Grating 1200 lines/mm

Light Source: Tungsten lamp & Deuterium Lamp

Wavelength Accuracy:  $\pm 1$ nm

Wavelength Repeatability:  $\leq 0.5$ 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:  $\pm 0.001$ 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 10mm 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