

**Product Name :**  
Astra UV Spectrophotometer

**Product Code :**  
ASTRALAB-SUPPLYA17001



**Description :**

Astra UV Spectrophotometer

**Technical Specification :**

Ultraviolet spectrophotometer is an effective method to study the composition, structure and interaction of substances based on the absorption spectrum of substances. The UV spectrophotometer can arbitrarily select light of different wavelengths in the UV-visible region. The absorption spectrum of a substance is the result that the molecules and atoms in the substance absorb the light energy of certain specific wavelengths in the incident light, and the molecular vibrational energy level transition and the electronic energy level transition occur

accordingly. Since various substances have their own different molecules, atoms and different molecular spatial structures, their absorption of light energy will not be the same. Therefore, each substance has its own unique and fixed absorption spectrum curve, which can be Determine the absorbance of certain characteristic wavelengths on the spectrum or determine the content of the substance.

High stability.

Optimize the design of the optical system and integrated aluminum alloy base structure to ensure the long-term reliability and stability of the instrument.

High intelligence

The hardware design of the dual CPU embedded system is super reliable, 128 X64 bit LCD display, rich instructions, no need to read instructions, easy to use;

Custom wavelength correction and automatic wavelength correction function, no need to manually adjust;

The use time of the light source is automatically accumulated, which is easy to understand and view. When the instrument is not in use, you can choose to close the light source switch menu, which effectively extends the service life of the instrument;

Chinese and English can be switched automatically

complete functions

Photometer test mode, quantitative analysis, multi-wavelength test

Efficient data processing

Convenient data processing: up to 1000 sets of experimental data can be stored, and you can also choose the built-in and external micro-printers to output, or choose the spectrum analysis software and computer connection to achieve more data processing and analysis functions.

Many optional accessories

Optional accessories are:

8-slot automatic sample rack

Single slot micro sample holder (at least 50 ul samples can be measured)

5-10 cm sample holder (suitable for water quality testing)

Single tank or three tank water bath colorimetric bowl rack (suitable for constant temperature sample test), which expands more application fields.

Optional PC background control software, will support more applications

Photometric measurement: easy to measure the absorbance and transmittance of the sample at the specified wavelength;

Quantitative measurement: Automatically establish a standard curve, which can be saved and recalled;

Qualitative measurement: support continuous recording of up to 100 data points, and automatically find the location of the maximum absorption peak wavelength;

Kinetic measurement: calculation of enzyme kinetic reaction rate;

Multi-wavelength test: supports data test of up to 10 wavelength points;

Auxiliary functions: automatic wavelength calibration, clock management, light source management, wavelength correction management, language selection;



## **Astra Scientific**

www.astrascientific.com, **Email:** info@astrascientific.com

**Address:** K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265