

## Ultraviolet Visible Spectrophotometer



**Model : YR01862**

**Ultraviolet Visible Spectrophotometer**

**Manufacturer : Kalstein**

**Price : \$ 15,750.00**

### Description :

A spectrophotometer is a special instrument that measures how much light a substance absorbs. Every substance will transmit (reflect) and absorb light slightly differently. Like how a fingerprint identifies each individual human, knowing exactly how much red (or green, or blue, etc.) gets absorbed allows us to identify and quantify varied materials.

A spectrophotometer is used in many areas of science including microbiology, biochemistry, forensics, physics, and medical health. You can use it to measure certain ingredients in a drug to make sure it is effective and safe for consumers. You can measure bacterial growth, or diagnose a patient based on how much uric acid is present in their urine. Even non-scientists use spectrophotometers. Wine-makers, for example, use them to determine how much malic acid (reducing sugars) a wine has in it.

Scientists can also use the spectrophotometer to see how a reaction has progressed. Let's say you're studying iron deficiency, a condition that affects over 2 billion people. Antioxidants, vitamins, and other agents are known to help in iron deficiency, but they don't have a single specific chemical make-up, and so they can't be directly measured. However, they are known to reduce ferric iron into ferrous iron, a more valuable form to the human body.

YR01862 series are wide screen double beam spectrophotometer. They adopt double beam long light path design to ensure the stability and accuracy; They are the best choice of high quality spectrophotometers.

### Features

- Light path design: double beam

YR01862 series' double light path design can prevent circuit fluctuation and stray light to ensure stability of the instrument.

- Powerful software functions
- Multi functions like spectrum scanning, standard curve, kinetics, multi wavelength scanning, DNA/Protein testing can be operated directly on the pc.

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- Long path light design

YR01862 series' unique 520mm long light path design greatly improved resolution and the bandwidth can reach 0.5nm.

- Multi functions on Spectrophotometer

Multi functions operated directly on the spectrophotometer and display the test results' curve and data: wavelength scanning, standard curve, kinetics, multi wavelength scanning, DNA/Protein test.

- 16mm optical base

YR01862 series use a rigid 16mm diecast aluminum base as their optical mount to ensure the stability and reliability.

- Perfect calibration system

All baseline, wavelength, dark current can be calibrated automatically to keep good running conditions.

- 6 inches LCD display

YR01862 series have a 6 inches LCD display to show results and curves directly on the screen.

- Data output

YR01862 series are equipped with USB port to connect with a PC, the software comes standard with the instrument.

Parameters by Model

## Ultraviolet Visible Spectrophotometer

Model	YR01862
Optical System	Double Beam(1200 Lines/mm Grating)
Wavelength Range	190-1100nm
Bandwidth	1.8nm
Wavelength Accuracy	±0.3nm
Wavelength Repeatability	0.2nm
Photometric Accuracy	±0.3%T
Photometric Repeatability	0.2%T
Photometric Range	-0.3-3A 0-200%T 0-9999C
Stability	± 0.001A/h @ 500nm
Baseline Flatness	± 0.001A/h
Noise	± 0.001A/h
Stray Light	≤0.05%T @ 220nm,360nm
Data Output Port	USB
Printer Port	Parallel Port
Display	320*240 Dots LCD
Lamps	D2 Lamp & W Lamp
Detector	Silicon Photodiode
Power Requirements	AC 220V/50Hz or 110V/60Hz
Dimension	625*430*206mm
Weight	30kg