

UV/VIS Spectrophotometer



Model : YR01859
UV/VIS Spectrophotometer
Manufacturer : Kalstein

Price : \$ 13,000.00

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.

YR01859 series are large scanning UV visible spectrophotometers which combine best features of single beam spectrophotometers. It is your ideal choice for stand-alone spectrophotometers.

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Features

Long light path design

YR01859 series' unique 520mm long light path design greatly improved resolution and the bandwidth can reach 0.5nm.

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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

YR01859 series use a rigid 16mm die-cast aluminum base as its optical mount to ensure instrument stability and reliability.

Perfect calibration system

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

6 inches LCD display

YR01859 series have a 6 inches LCD display to show results and curves directly on the screen.

Date output

YR01859 series are equipped with USB port to connect with a PC, and the software comes standard with the instruments.

Powerful software functions

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

Technical Specification

UV/VIS Spectrophotometer

Model	YR01859
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 0-9999 C
Stability	± 0.002A/h @ 500nm
Baseline Flatness	± 0.001A/h
Noise	± 0.001A
Stray Light	≤0.05%T @ 220nm,390nm
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	26kg