



LABORATORY LINES

SPECTROPHOTOMETERS



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Visible Spectrophotometer

YR01846

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.



Lead screw structure

The instrument uses a lead screw structure so that the instrument wavelength accuracy and wavelength resolution can be greatly improved.

Auto setting wavelength

Users set wavelength automatically through arrow keys to avoid operation errors.

Numerical Keys

With microprocessor controlled, all parameters of the instrument can be easily set by numerical keys.

Data output

Equipped with USB port to connect with a PC to display spectrum scanning, kinetics and multi wavelength testing results on the screen through the optional software.

1mm thick optical base

The instrument use a rigid die-cast aluminum base as its optical mount to ensure instrument stability and reliability.

Standard curve

The instruments can set up various standard curves according to customer's solutions and find the concentration of unknown solutions.

Standard Accessories:

- ✓ Spectrophotometer
- ✓ 1cm Glass cuvette (4pcs)
- ✓ Power cord
- ✓ User's Manual
- ✓ Dust Cover



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Visible Spectrophotometer YR01846



Technical Specification

Wavelength Range	320-1100nm
Bandwidth	2nm
Wavelength Accuracy	±0.5nm
Wavelength Repeatability	≤0.2nm
Wavelength Setting	Auto
Photometric Accuracy	±0.3%T
Photometric Repeatability	≤0.2%T
Photometric Range	-0.3-3A, 0-200%T, 0-9999C
Stability	± 0.002A/h @500nm
Stray Light	≤0.05%T@220nm, 360nm
Data Output Port	USB Port
Printer Port	Parallel Port
Display	128*64 Dots LCD
Lamps	Tungsten Lamp
Detector	Silicon Photodiode
Power Requirements	AC 220V/50Hz or AC 110V/60Hz
Dimension	460*360*225mm
Weight	16kg



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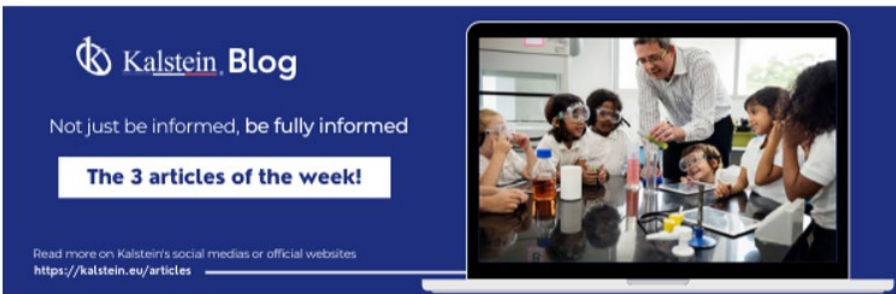
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What is the importance of the laboratory refrigerator?
A refrigerator is a device that is one of the most common pieces of equipment used in laboratories to maintain, in a controlled environment (refrigerated space), various fluids and substances.

Article of the week:
What is the importance of the laboratory refrigerator?

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