



# LABORATORY LINES

## SPECTROPHOTOMETERS



**Kalstein**®

A different accompaniment, at your service





# Kalstein®

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OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



### Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



### Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



### #Letsgivemore ♥

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



### Technical Support

Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



### Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



### Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



**KALSTEIN® Spectrophotometer****UV/VIS Spectrophotometer****Model Series YR01859**

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' 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/RNA/Protein test.

**16mm optical base**

YR01859 series use a rigid 16mm die-cast aluminium 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.

**Data 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/RNA Protein testing can be operated directly on PC.

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**KALSTEIN® Spectrophotometer**

UV/VIS Spectrophotometer

Model Series YR01859

**Parameters per model**

Model	YR01859	YR01860	YR01861
<b>Wavelength Range</b>		190-1100nm	
<b>Bandwidth</b>	1.8nm	1.0nm	0.5, 1.0, 2.0, 4.0nm
<b>Wavelength Accuracy</b>		±0.1nm @656.1nm, ±0.3nm	
<b>Wavelength Repeatability</b>		0.1nm	
<b>Photometric Accuracy</b>		±0.2%T(0-100%T)	
<b>Photometric Repeatability</b>		≤0.1%T(0-100%T)	
<b>Photometric Range</b>		-0.3-3A 0-200%T 0-9999C	
<b>Stability</b>		± 0.002A/h @ 500nm	
<b>Baseline Flatness</b>		± 0.0008A/h	
<b>Noise</b>		± 0.001A	
<b>Stray Light</b>		≤0.05%T @ 220nm,360nm	
<b>Data Output Port</b>		USB	
<b>Printer Port</b>		Parallel Port	
<b>Display</b>		320*240 Dots LCD	
<b>Lamps</b>		Tungsten Lamp & Deuterium Lamp	
<b>Detector</b>		Silicon Photodiode	
<b>Power Requirements</b>		AC 220V/50Hz or AC 110V/60Hz	
<b>Dimension</b>		625*430*206mm	
<b>Weight</b>		28KG/28KG/30KG	

**Accessories**

Item	Description	Quantity	Unit
1	Spectrophotometer	1	set
2	1cm Glass cuvette	4	pcs
3	Power cord	1	pcs
4	User's Manual	1	pcs
5	1 cm quartz cuvette	2	pcs
6	Dust Cover	1	pcs

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## WITH THE ACQUISITION OF A KALSTEIN EQUIPMENT

YOU MAKE A CONTRIBUTION TO:

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<https://www.humatem.org/>



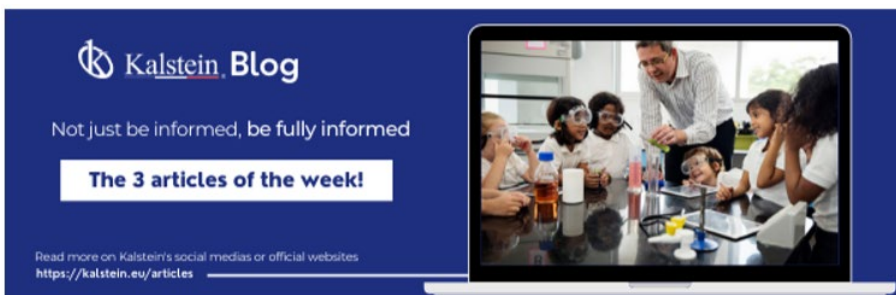
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**Thank you!**



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Not just be informed, be fully informed

**The 3 articles of the week!**

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**1**  
Read this ARTICLE NOW

**How does the climate affect your microscope?**

microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

**Kalstein Blog**

**Article of the week:**  
How does the climate affect your microscope?

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**2**  
Read this ARTICLE NOW

**What is the importance of the laboratory refrigerator?**

refrigerator is a device that is one of the most common laboratory equipment. Its purpose is to maintain, in a controlled environment (refrigerated space), various fluids and substances

**Kalstein Blog**

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

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