



# 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



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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.



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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

#### YR01858



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.



#### Product Description

- ✓ 800\*480 large touch screen clearly shows test results and graphs.
- ✓ Powerful data analysis system with internal computer host could realize multi functions independently.
- ✓ Like establishing calibration curve, photometric measurement, quantitative measurement, spectral scanning, dynamics, DNA/Protein test, multi-wavelength analysis and data printing.
- ✓ Optical system adopts suspension design. All optical parts are independently fixed on the 8mm thick aluminium deformation-free base to avoid the impact of bottom plate deformation and outside vibration on optical system.
- ✓ This premium design greatly improved the stability and reliability of the instrument.
- ✓ Convenient data storage and printing function.
- ✓ YR01858 can be directly connected to the printer for A4 format data and graph printing.
- ✓ Automatic power on self test and system positioning function could inspect and calibrate the deviation before every use.

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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**KALSTEIN® Spectrophotometer**  
**UV/VIS Spectrophotometer**  
**YR01858**



<b>Model</b>	YR01858
<b>Wavelength Range</b>	190-1100nm
<b>The spectral bandwidth</b>	2nm
<b>Wavelength Accuracy</b>	±0.5nm
<b>Stray light</b>	0.05% T @ 220 nm, 360 nm
<b>Wavelength Repeatability</b>	≤0.1nm
<b>Photometric Accuracy</b>	±0.2%T(0-100%T) ±0.002Abs(0-0.5Abs) ±0.004Abs(0.5-1.0Abs)
<b>Photometric Repeatability</b>	≤0.1%T(0-100%T) 0.001Abs(0-0.5Abs) 0.002Abs(0.5-1.0Abs)
<b>Stability</b>	±0.001A/h@500nm
<b>Photometric Range</b>	0-200%T, -0.3-3.0A, 0-9999C
<b>Baseline flatness</b>	±0.001A
<b>Noise</b>	±0.0005A
<b>Display</b>	800*480 touch screen
<b>Data Output Port</b>	USB
<b>Print Port</b>	USB Port
<b>Light source</b>	Tungsten Lamp & Deuterium Lamp
<b>Power Requirements</b>	AC 220V/50Hz or AC 110v/60Hz
<b>Detector</b>	Silicon Photodiode
<b>Dimension</b>	460*380*180mm
<b>Weight</b>	20KG



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Humatem

Solidarité et coopération biomédicale

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**Thank you!**



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