



# LABORATORY LINES

## SPECTROPHOTOMETERS



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A different accompaniment, at your service





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**KALSTEIN® Spectrophotometer****Visible Spectrophotometer****YR01844**

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.



YR01844 is a single beam visible spectrophotometer with manual wavelength setting. It is a basic model and ideal choice for routine analysis and general experiments. This specially designed single beam spectrophotometer is a low-cost spectrophotometer which offers high performance, easy operation and wide application.

**Features**✓ **Microprocessor controlled**

With microprocessor controlled, YR01844 can realize auto Zero and auto 100%T adjustment with one push-button. YR01844 has a LCD display instead of LED display for direct readout of Transmittance, Absorption, and Concentration.

✓ **Grating monochromator**

YR01844 uses 1200-line grating which ensures high resolution, low stray light and high parameters accuracy.

✓ **Date output**

YR01844 is equipped with USB port which can be connected to PC to edit date through specific software. Date can also be printed through a parallel port when connected to a micro printer.

✓ **Compact design, easy to carry**

The compact design of YR01844 saves bench space while all components function remain performed like 120mm wide sample compartment and long optical path monochromator.

✓ **Four Display Mode**

YR01844 can display absorption, transmittance, concentration and coefficient directly by different mode switching.

**Optional Accessories**

- ✓ 10mm 8-position auto cell holder
- ✓ Adjustable cell holder for micro cuvettes
- ✓ Transparent film holder
- ✓ Test tube holder
- ✓ Peltier & Sipper system
- ✓ Micro thermo printer
- ✓ Reflectance Attachment
- ✓ Spare Tungsten and Deuterium Lamp

**#Let'sgive more** ♥

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Optimum Business Center 450 Rue Baden Powell,  
• 34000 Montpellier, France.  
Titl: +33 467158849 / +33 680760710/ +33 663810023  
<https://kalstein.eu>  
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## KALSTEIN® Spectrophotometer Visible Spectrophotometer YR01844



Optical System	Single Beam, Grating 1200lines/mm	Stray Light	$\leq 0.2\%T@360nm$
Wavelength Range	325-1000nm	Stability	$\pm 0.002A/h@500nm$
Spectral Bandwidth	4nm	Display	LCD
Wavelength Accuracy	$\pm 2nm$	Detector	Silicon Photodiode
Wavelength Repeatability	$\leq 0.5nm$	Output	USB Port & Parallel Port(Printer)
Wavelength Setting	Manual	Light Source	Tungsten Halogen Lamp
Photometric Accuracy	$\pm 0.5\%T$	Power Requirements	AC 85-250V
Photometric Repeatability	$\leq 0.2\%T$	Dimension	420*280*180mm
Photometric Range	-0.3-3A,0-200%T,0-9999C	Weight	8kg

1	Spectrophotometer	1	set
2	1cm Glass cuvette	4	pcs
3	Power cord	1	pcs
4	User's Manual	1	pcs
5	Black block	1	pcs
6	Dust Cover	1	pcs



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MONTPELLIER - FRANCE  
**HEADQUARTER**  
Optimum Business Center,  
450 Rue Baden Powell,  
34000 Montpellier - France.

**Fax:** +33 (0) 4 67 15 88 49  
**Tif:** +33 (0) 6 80 76 07 10  
[sales@kalstein.eu](mailto:sales@kalstein.eu)

<https://kalstein.eu/>  
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