

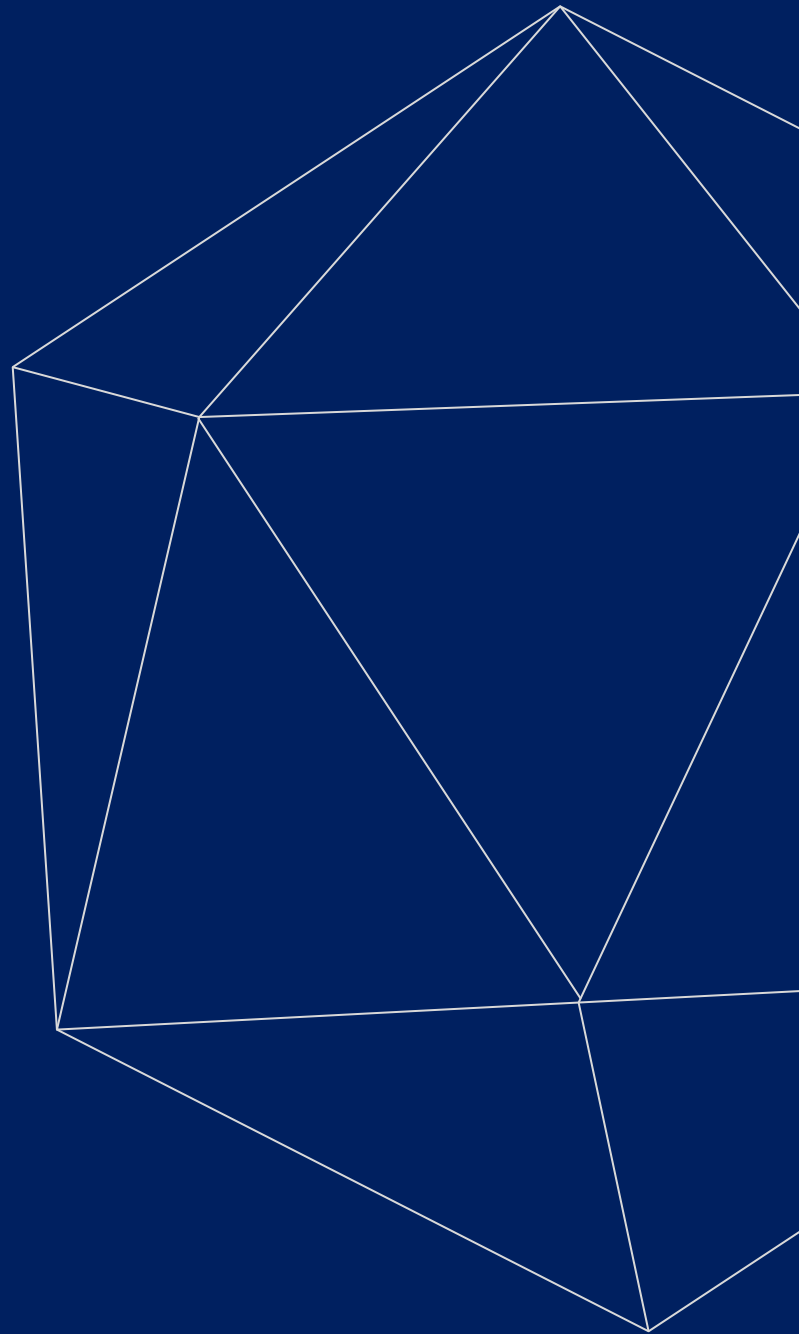
LABORATORY LINES

SPECTROPHOTOMETERS



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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.



Double Beam UV/VIS Spectrophotometer (Touch Screen)

YR01862 and YR01862-1



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.



Features:

- ✓ Adopt dual beam optical system with precision vertical-type dual optical path and dual detector.
- ✓ Imported grating of high performance greatly reduced the stray light and improved the stability and reliability of device.
- ✓ 10 inches large touch screen, built-in 32G memory, support Bluetooth connection network.
- ✓ 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 aluminum 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. YR01862 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.
- ✓ All test data and analysis report can be exported to USB disk directly.
- ✓ PC software is in compliance with 21CFR PART 11 requirements.
- ✓ Graphs support 3D display on PC software.

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



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Double Beam UV/VIS Spectrophotometer (Touch Screen)

YR01862 and YR01862-1



Model	YR01862	YR01862-1	Baseline flatness	±0.001A
Wavelength Range	190-1100nm		Noise	± 0.0004A
Spectral Bandwidth	1.8nm	0.5,1.0,2.0,4.0nm	Display	10 inches smart touch screen
Wavelength Accuracy	±0.1nm(D ₂ 656.1nm),±0.3nm@full range		Data Output Port	USB Port
Wavelength Repeatability	≤0.1nm		Print Port	USB Port
Stray Light	≤0.03%T @ 220nm,360nm		Light source	Tungsten Lamp and Deuterium Lamp
Photometric Accuracy	±0.2%T(0-1009%T),±0.002Abs(0-0.5Abs), ±0.004Abs(0.5-1.0Abs)		Power Requirements	AC 220V/50Hz or AC 110V/60Hz
Photometric Repeatability	≤0.1%T(0-100%T),0.001Abs(0-0.5Abs), 0.002Abs(0.5-1.0Abs)		Detector	Silicon Photodiode
Stability	±0.0004A/h@500nm		Dimension	630*430*210mm
Photometric Range	0-200%T, -0.3-3.0A, 0-9999C		Weight	28KG

Standard 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	1cm quartz cuvette	2	pcs
6	Dust Cover	1	pcs



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Double Beam UV/VIS Spectrophotometer (Touch Screen)

YR01863



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.

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Features:

✓ Light path design: double beam

YR01863 series double light path design can prevent circuit fluctuation and stray light to ensure stability of the instrument.

✓ Powerful software functions

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

✓ Long path light design

YR01863 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/Protein test.

✓ 16mm optical base

YR01863 series use a rigid 16mm diecast aluminum base as their optical mount to ensure the stability and reliability.

✓ Perfect calibration system

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

✓ 6 inches LCD display

YR01863 series have a 6 inches LCD display to show results and curves directly on the screen.

✓ Data output

YR01863 series are equipped with USB port to connect with a PC, the software comes standard with the instrument.



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Double Beam UV/VIS Spectrophotometer (Touch Screen)

YR01863



Model	YR01863	YR01864	YR01865	Stray Light	≤0.03%T @ 220nm,360nm
Optical System	Double Beam(1200 Lines/mm Grating)			Stability	± 0.0003A/h @ 500nm
Wavelength Range	190-1100nm			Noise	± 0.0005A
Bandwidth	1.8nm	1nm	0.5,1.0,2.0,4.0nm	Display	320*240 Dots LCD
Wavelength Accuracy	±0.1nm(D2 656.1),±0.3nm@ full range			Detector	Silicon Photodiode
Wavelength Repeatability	≤0.1nm			Output	USB Port & Parallel Port
Photometric Accuracy	±0.2%T(0-100%T)			Lamps	Tungsten Lamp & Deuterium Lamp
Photometric Repeatability	≤0.1%T(0-100%T)			Power Requirements	AC 220V/50Hz or AC 110V/60Hz
Photometric Range	-0.3-3A, 0-200%T, 0-9999C			Dimension	625*430*206mm
Weight	32KG/32KG/34KG				

Standard 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	1cm quartz cuvette	2	pcs
6	Dust Cover	1	pcs
7	Software	1	pcs



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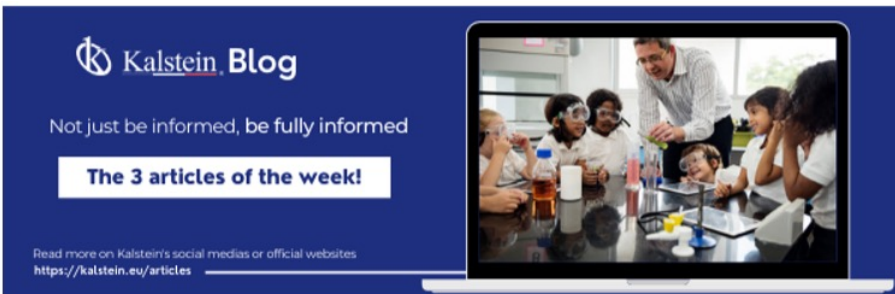
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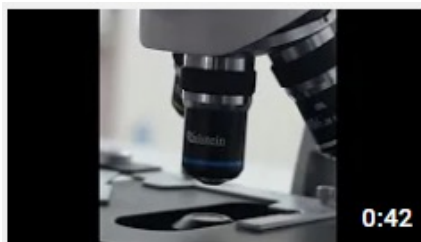
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