



# LABORATORY SECTOR

SPECTROPHOTOMETER



**Kalstein**®

A different accompaniment, at your service





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A different accompaniment, at your service

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.



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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**  
**Handheld Color Spectrophotometer**  
**Model YR05498**



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# KALSTEIN® Spectrophotometer

## Handheld Color Spectrophotometer

### Model YR05498



#### Product Description:

YR05498 handheld color spectrophotometer not only can help to perform color matching and color management studies, but also can control product quality management accurately. The instrument is equipped with high-end color management software which can connect PC to achieve more extension functions. YR05498 color spectrophotometer is developed by Kalstein with independent intellectual property rights. It uses 45/0 geometrical optical structure, comply with CIE No.15, GB/T 3978. With human body engineering mechanics and humanized operation design, YR05498 color spectrophotometer has stable performance precise measurement and powerful functions in the leading position of the same industry. With 400~700nm, YR05498 handheld color spectrophotometer features with high accuracy  $\Delta E^*_{ab}$  0.04, and 8mm aperture makes measurement so easy. It can save 1000 Standards, 15000 Samples and you also can input your own LAB or XYZ value into the instrument. With SQC8 software, you can do better color control management. Plus, it is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories.



#### Portable Color Spectrophotometer Product Features:

- ✓ Aesthetic design perfectly combined with ergonomics structure.
- ✓ 45/0 geometrical optics structure, comply with CIE, ISO, ASTM, DIN standard.
- ✓ 3.5 inch large capacitive touch screen.
- ✓ Two standard observer perspectives, multiple light sources modes, a variety of color systems.
- ✓ The repeatability  $\Delta E^*_{ab}$  is within 0.04, the errors between each instrument  $\Delta E^*_{ab}$  is less than 0.2.
- ✓ Large capacity storage, can save more than 10000 data
- ✓ PC software with powerful extension functions.
- ✓ High hardware configuration with a number of innovative technologies.
- ✓ Oversized integrating sphere, more effective homogenization ray of lights and precise measurement.
- ✓ 15° oblique angle screen, more in line with the human eye observation



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Model YR05498



### Technical Specifications:

<b>Model</b>	YR05498
<b>Illuminating/Viewing Method</b>	45°/0 (45° ring illuminating, 0° viewing) Comply to standard CIE No. 15, GB/T3978, GB2893, GB/T18833
<b>Integrating Sphere Size</b>	Φ58mm
<b>Measuring Aperture</b>	Φ8mm
<b>Observer</b>	2°/10°
<b>Repetitive Error</b>	Spectral Reflectance: standard deviation within 0.1%(400~700nm: within 0.2%) Colorimetric Value: standard deviation $\Delta E^*ab \leq 0.04$ (Measurement Conditions: white calibration plate measured 30 times at 5 seconds intervals after white calibration performed.)
<b>Inter-Instrument Error</b>	$\Delta E^*ab \leq 0.2$ (Average value of measuring the 12 tint plates of BCRA series II)
<b>Wavelength Range</b>	400~700nm
<b>Wavelength Pitch</b>	10nm
<b>Reflectance Range</b>	0~200%
<b>Light Source Type</b>	D65, D50, A, C, D55, D75, F2, F6, F7, F8, F10, F11, F12
<b>Light Source Device</b>	Combined LED Light
<b>Light Source Life</b>	5 years, more than 1.6 million measurements
<b>Sensor</b>	Silicon Photoelectric Diode Array
<b>Color Space</b>	CIE LAB, XYZ, Yxy, LCh, CIE LUV
<b>Color Difference Formula</b>	$\Delta E^*ab$ , $\Delta E^*uv$ , $\Delta E^*94$ , $\Delta E^*cmc(2:1)$ , $\Delta E^*cmc(1:1)$ , $\Delta E^*00$
<b>Display Data</b>	Spectral Graph/Data, Sample Chromatic Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
<b>Other Chromaticity Data</b>	Whiteness – WI(ASTM E313, CIE/ISO,AATCC,Hunter),
	Yellowness-YI(ASTM D1925, ASTM 313),
	TI(ASTM E313, CIE/ISO), Metamerism Index (Mt)
	Colour Stain, Color Fastness, Color Strength, Opacity



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<b>Measuring Time</b>	1.5s
<b>Data Storage</b>	1000 standards, 15000 samples
<b>Data Port</b>	USD&RS232
<b>Dimension</b>	90*77*230mm
<b>Weight</b>	600g
<b>Battery</b>	Li-ion Battery, 5000 measurements in 8 hours.
<b>Operation Temperature</b>	0~40°C(32~104°F)
<b>Storage Temperature</b>	-20~50°C(-4~122°F)
<b>Standard Accessory</b>	Power Adapter, Li-ion Battery, Operating Instruction, CD-ROM (containing management software), Data Line, White and Black Calibration Cavity, Protective Cover and Wrist Strap.
<b>Optional Accessory</b>	Universal Test Components, Micro Printer, Powder Test Box



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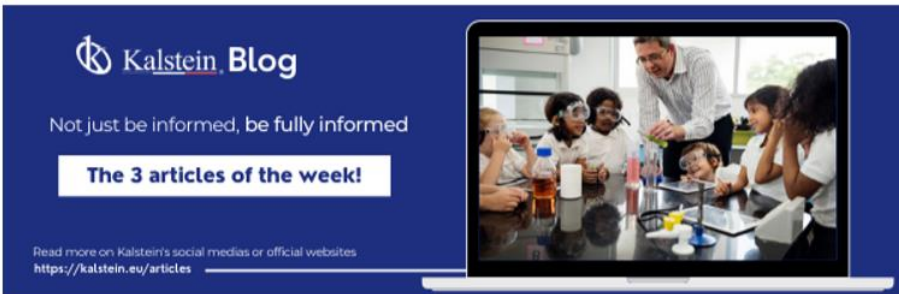
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