



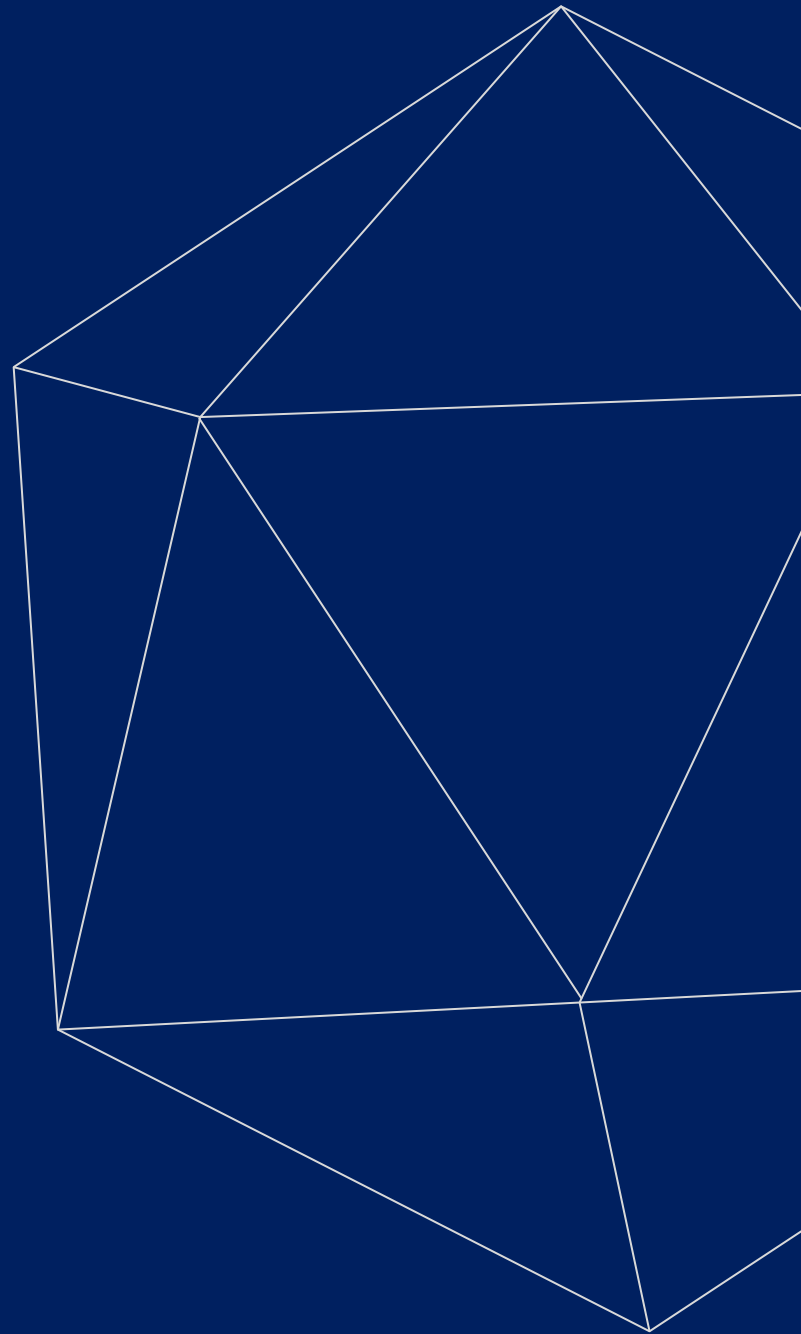
LABORATORY SECTOR

COLORIMETER



Kalstein®

A different accompaniment, at your service





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A different accompaniment, at your service

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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.



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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.



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® Colorimeter
Precision Colorimeter
Model YR05509



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KALSTEIN® Colorimeter
Precision Colorimeter
Model YR05509



Product Description:

Kalstein team concentrates on customer needs and develops a new series YR05509 // YR05513 with high precision & low cost & two apertures, and $\Phi 4\text{mm}$ tip aperture, suitable for most samples use. With color space CIE LAB, R05509 // YR05513 is good to check color difference for delta E, and widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories

Product Advantages:

- ✓ Built-in white plate parameters. No need to calibrate each time which realize rapid measurement.
- ✓ Double Apertures: $\Phi 8\text{mm}$ flat aperture and $\Phi 4\text{mm}$ tip aperture for switch, easy to measure concave sample in large plane.
- ✓ Equipped with rechargeable built-in high-capacity Li-ion battery. No need to purchase battery repeatedly.
- ✓ Handheld design: small and convenient; make the measurement easier.
- ✓ Exquisite appearance: adopts traditional and fashionable aesthetic designs.
- ✓ High cost performance: large output, good quality, cheap products.



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KALSTEIN® Colorimeter Precision Colorimeter Model YR05509



Technical Specifications:

Model	YR05509
Illuminating/Viewing Geometry:	8°/ d
Light Source:	LED Light
Sensor:	silicon photodiode array
Measuring aperture:	Φ8mm flat aperture; Φ4mm tip aperture
Color Space :	CIE LAB, XYZ, LCh, CIE RGB, CIE LUV
Color Difference Formula:	ΔE^*_{ab} , $\Delta E^*_{(h)}$, ΔE^*_{uv} , ΔE^*_{94} , $\Delta E^*_{cmc}(2:1)$, $\Delta E^*_{cmc}(1:1)$, ΔE^*_{00}
Other Chromaticity Data:	WI (E313, CIE, AATCC, Hunter), YI (D1925, 313), Color Fastness, Staining Fastness, JPC79, BFD (1.5:1), FMCI I
Observer:	CIE 10°
Illuminant:	D65, A, C, D50, F2, F6, F7, F8, F10, F11, F12
Display Data:	Colorimetric Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset,
Measuring Time:	0.4s
Repeatability:	$\Delta E^*_{ab} 0.03$ (Average of 30 measurements of standard white plate within 5s)
Errors between each instrument:	within $\Delta E^*_{ab} 0.2$
Dimension:	205*67*80mm
Weight:	500g
Battery:	rechargeable lithium-ion battery 3.7V @ 3200mAh
Lamp Life:	5 years, more than 1.6 million measurements
Screen:	TFT 2.8 inch (16:9)
Interface:	USB/ RS-232
Storage:	100 Standards, 20000 Samples
Operating Temperature:	0~40°C (32~104°F)
Storage temperature:	-20~50°C (-4~122°F)
PC software:	CQCS3 software
Optional accessory:	miniature thermal printer, powder test box



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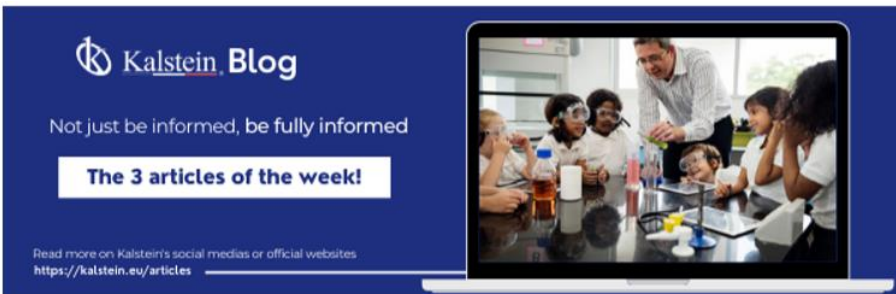
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