



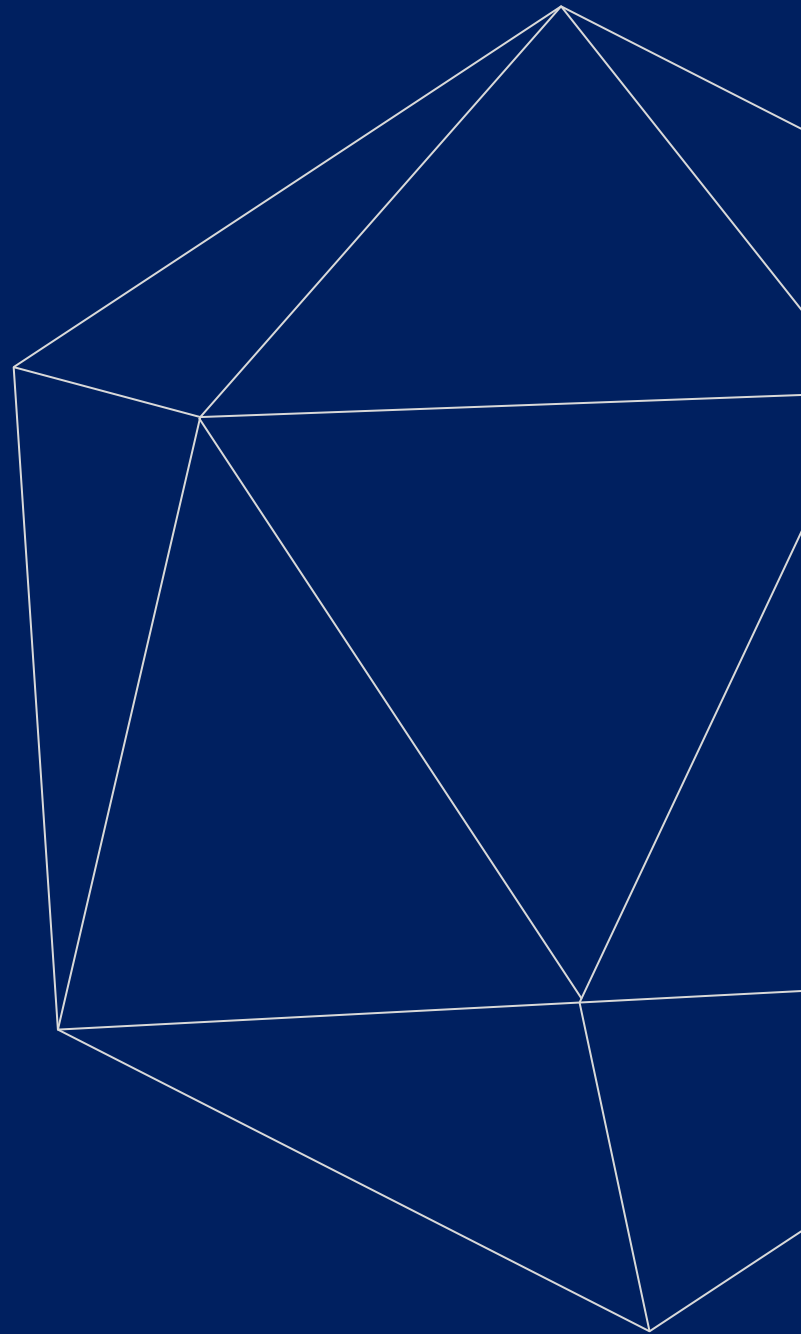
LABORATORY SECTOR

COLORIMETER



Kalstein®

A different accompaniment, at your service





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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.



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In any part of the world, receive your induction or training from our specialized team of engineers



Quick Response

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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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.



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 YR05511



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KALSTEIN® Colorimeter
Precision Colorimeter
Model YR05511



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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Technical Specifications:

Model	YR05511
Illuminating/Viewing Geometry	45°/0°
Measuring Aperture	Φ8mm
Measurement End-face	Large stable end face and small concave-convex end face
Detector	Silicon photoelectric diode
Locating	Illuminating Locating/Cross Locating
Color Space	CIEL*a*b*C*h* CIEL*a*b*
	CIEXYZ
Color Difference Formula	ΔE^*ab $\Delta L^*a^*b^*$ $\Delta E^*C^*h^*$
Light Source	D65
Light Source Device	LED blue light excitation
Errors Between Each Equipment	$\leq 0.80\Delta E^*ab$
Storage	100pcs standards 20000pcs samples
Repeatability	Standard deviation within ΔE^*ab 0.08
	Average of 30 measurements of standard white plate
Weight	500g
Dimension	205×67×80 mm
Power source	Rechargeable lithium-ion battery 3.7V@3200mAh
Lamp Life	5 years, more than 1.6 million measurements
Charging Time	The first charging time is 8 hours–100% electricity
PC Software	CQCS3 Software
Printer (optional)	Miniature thermal printer



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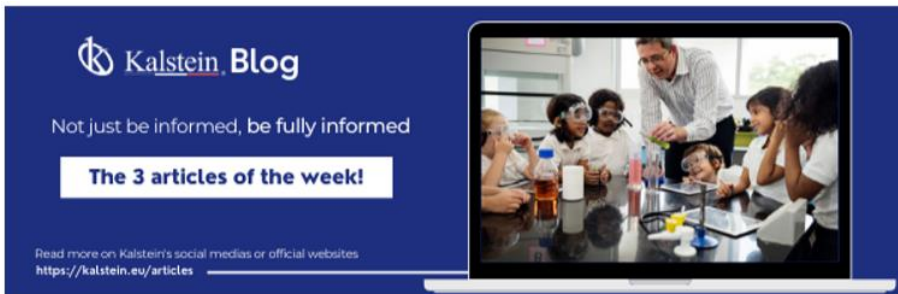
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