



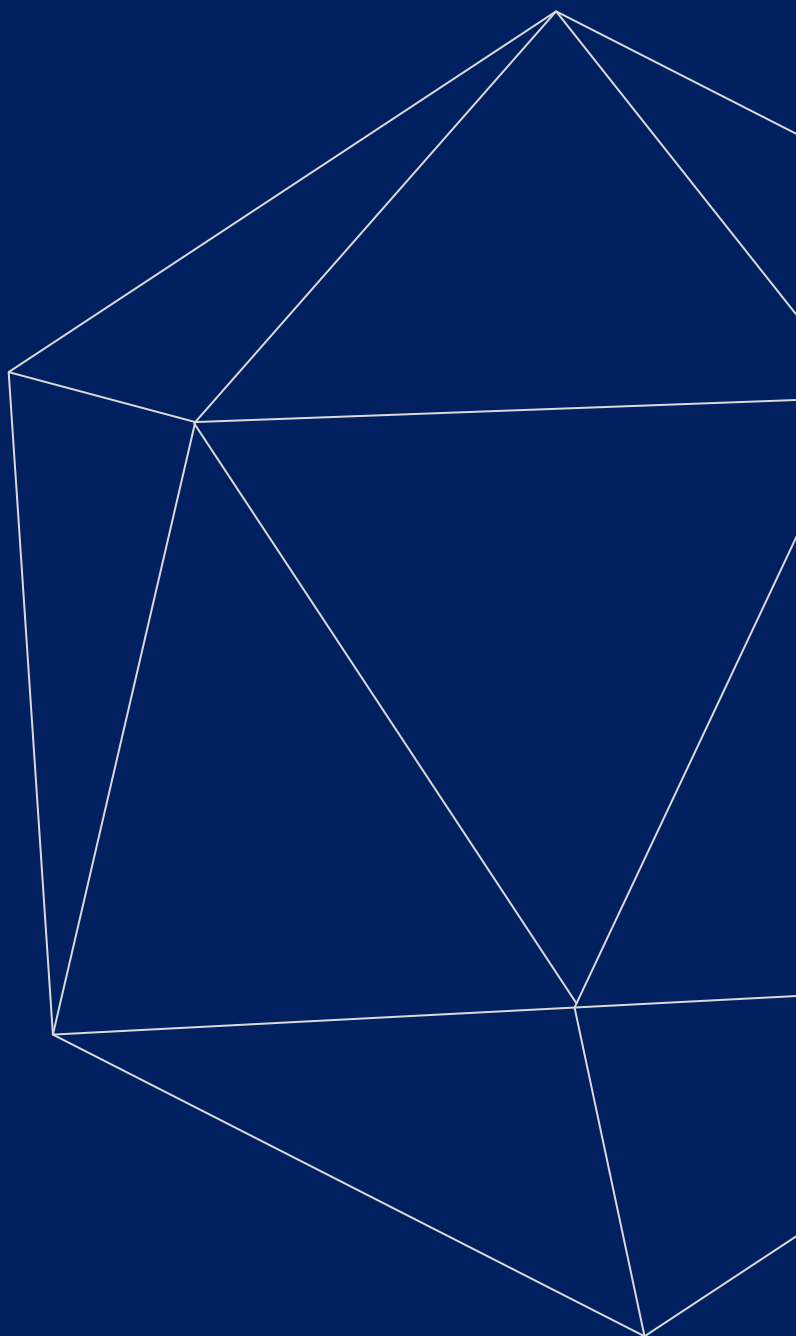
LABORATORY SECTOR

SPECTROCOLORIMETER



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KALSTEIN® Spectrocolorimeter
Spectrocolorimeter
Model YR05518 // YR05519



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KALSTEIN® Spectrocolorimeter

Spectrocolorimeter

Model YR05518 // YR05519



Product Description:

YR05516 // YR05519 is Kalstein using autonomous core technology research and development of A portable light color difference instrument, is the high level in spectral architecture color difference instrument, in addition to ensure accurate relative ΔE at the same time, also to ensure the accuracy of the absolute value of L, A and B for A long time, anytime, anywhere can pass the international standards and national standards of measurement. Using the built-in silicon photodiode array (double row 24) sensors, import the whiteboard, repetitive ΔE^* ab easily control within 0.1, both measurement speed and convenience of operation, no need to connect the computer or software can quickly judging color difference measurement, 8 mm diameter meet plastic electronics, paint and ink, textile printing and dyeing, printing, such as the ceramic industry accurate color difference of production and the quality control.

Product Advantages:

- ✓ Φ 8 mm diameter measurement, 10° Angle, observer can meet most of the industry customer requirements;
- ✓ Combination of full-spectrum LED light source, plane grating and true color capacitive touch screen, with a high starting point;
- ✓ Silicon photodiode array (24 groups in double columns), display precision 0.1, good repeatability;
- ✓ The light source life is more than 3 million measurements in 5 years, and the lithium battery takes 6,000 measurements within 8 hours, which can be recharged repeatedly and has a long battery life;
- ✓ Quick data search, analysis and comparison with 500 data storage samples and 10,000 samples.



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**Technical Specifications:**

Model	YR05518	YR05519
Optical Geometry	D/8(diffused illumination, 8-degree viewing angle)	D/8(diffused illumination, 8-degree viewing angle)
	SCI Mode	SCI Mode
	Comply to CIE No.15, GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7	Comply to CIE No.15, GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
Characteristic	Φ8mm apertures, Used for accurate color measurement and quality control in plastic electronics, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries	Φ8mm apertures, Used for accurate color measurement and quality control in plastic electronics, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries
Integrating Sphere Size	Φ40mm	Φ40mm
Light Source	Combined full spectrum LED light source	Combined full spectrum LED light source
Spectrophotometric Mode	Flat Grating	Flat Grating
Senso	Silicon photodiode array (double row 24 groups)	Silicon photodiode array (double row 24 groups)
Wavelength Range	400~700nm	400~700nm
Wavelength Interval	/	/
Semiband Width	10nm	10nm
Measured Reflectance Range	L:0~100; reflectivity:The reflectivity can be measured at 3 specific wavelengths specified by the user (default: 440nm, 550nm, 600nm)	L:0~100; reflectivity:The reflectivity can be measured at 1 specific wavelengths specified by the user (default: 550nm)
Measuring Aperture	Φ8mm	Φ8mm
Specular Component	SCI	SCI
Color Space	CIE LAB,XYZ,Yxy,LCh	CIE LAB,XYZ,Yxy,LCh
Color Difference Formula	$\Delta E^*_{ab}, \Delta E^*_{00}$	$\Delta E^*_{ab}, \Delta E^*_{00}$
Other Colorimetric Index	/	/
Observer Angle	10°	10°
Illuminant	D65,A,F2(CWF)	D65,A,F2(CWF)



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KALSTEIN® Spectrocolorimeter**Spectrocolorimeter****Model YR05518 // YR05519**

Displayed Data	Reflectivity (the user specifies the reflectivity at 3 specific wavelengths), Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset	Reflectivity (the user specifies the reflectivity at 1 specific wavelengths), Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset
Displayed Accuracy	Display 0.1, storage 0.01	0.1
Measuring Time	About 1.5s	About 1.5s
Repeatability	Chromaticity value: MAV/SCI, within ΔE^*ab 0.08 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)	Chromaticity value: MAV/SCI, within ΔE^*ab 0.1 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
Inter-instrument Error	MAV/SCI, Within ΔE^*ab 0.4 (Average for 12 BCRA Series II color tiles)	MAV/SCI, Within ΔE^*ab 0.4 (Average for 12 BCRA Series II color tiles)
Measurement Mode	Single Measurement, Average Measurement(2-99times)	Single Measurement, Average Measurement(2-99times)
Locating Method	Stabilizer cross position	Stabilizer cross position
Dimension	L*W*H=81X71X214mm	L*W*H=81X71X214mm
Weight	About 460g	About 460g
Battery	Li-ion battery, 6000 measurements within 8 hours	Li-ion battery, 6000 measurements within 8 hours
Illuminant Life Span	5 years, more than 3 million times measurements	5 years, more than 3 million times measurements
Display	3.5-inch TFT color LCD, Capacitive Touch Screen	3.5-inch TFT color LCD, Capacitive Touch Screen
Data Port	USB	USB
Data Storage	Standard 500 Pcs, Sample 10000 Pcs	Standard 500 Pcs, Sample 10000 Pcs
Language	Simplified Chinese, English, Traditional Chinese	Simplified Chinese, English, Traditional Chinese
Operating Environment	0~40°C, 0~85%RH (no condensing), Altitude < 2000m	0~40°C, 0~85%RH (no condensing), Altitude < 2000m
Storage Environment	-20~50°C, 0~85%RH (no condensing)	-20~50°C, 0~85%RH (no condensing)
Standard Accessory	Power Adapter, USB Cable, User Guide, SQCX Software(Download from office website), White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm flat aperture	Power Adapter, USB Cable, User Guide, White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm flat aperture
Optional Accessory	USB Micro Printer, Powder Test Box	USB Micro Printer, Powder Test Box
Notes	Technical parameters are only for reference, subject to the actual sale of the product	Technical parameters are only for reference, subject to the actual sale of the product

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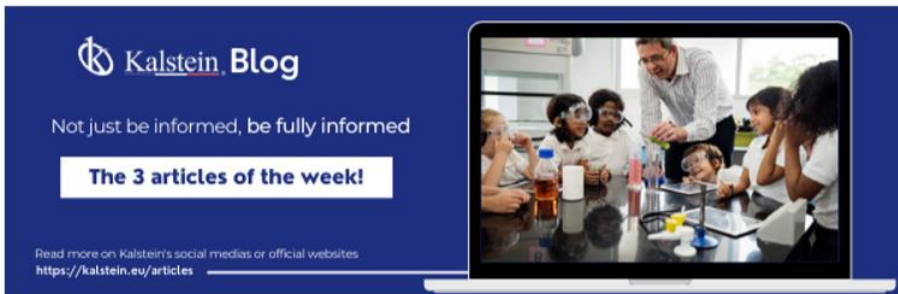
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2
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Article of the week:
What is the importance of the laboratory refrigerator?

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