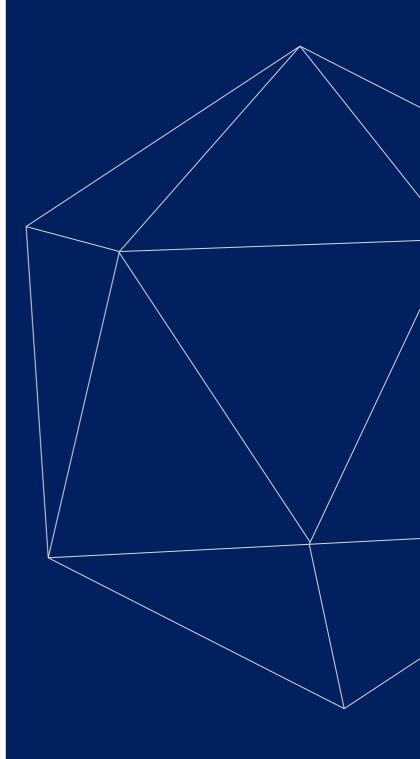


# Kalstein A different accompaniment, at your service

# LABORATORY SECTOR SPECTROCOLORIMETER





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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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#### **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.



**Spectrocolorimeter** 

Model YR05516 // YR05517







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**Spectrocolorimeter** 

Model YR05516 // YR05517





#### **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  $\Delta$  E at the same time, also to ensure the accuracy of the absolute value of L, A and B for A long time, anythime, 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  $\Delta$  E \* 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 Adventages:**

- ✓ Ф 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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**Spectrocolorimeter** 

Model YR05516 // YR05517





#### **Technical Specifications:**

Model	YR05516	YR05517
Optical Geometry	D/8(diffused illumination,	D/8(diffused illumination,
	8-degree viewing angle)	8-degree viewing angle)
	SCI/SCE Mode	SCI/SCE Mode
	Comply to CIE No.15, GB/T	Comply to CIE No.15, GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
	3978,GB 2893,GB/T	
	18833,IS07724-1,ASTM E1164,DIN5033 Teil7	
Characteristic	double apertures, more adaptability; Used for accurate	single apertures, more adaptability; Used for accurate color measurement and quality control in plastic electronics, paint and ink, textile and garment printing a dyeing, printing, ceramics and other industries
	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	Ф40mm	Ф40mm
Light Source	Combined full spectrum LED light source, UV light source	Combined full spectrum LED light source, UV light sou
Spectrophotometric Mode	Flat Grating	Flat Grating
Senso	Silicon photodiode array (double row 32 groups)	Silicon photodiode array (double row 32 groups)
Wavelength Range	400 <b>∼</b> 700nm	400 <b>∼</b> 700nm
Wavelength Interval	10nm	10nm
Semiband Width	10nm	10nm
Measured Reflectance Range	L:0~120; reflectivity:0~200%	L:0~120; reflectivity:0~200%
Measuring Aperture	Dual Apertures : MAV:Ф8mm/Ф10mm;SAV:Ф4mm/Ф5mm	Single Apertures: Φ8mm/Φ10mm
Specular Component	SCI/SCE	SCI/SCE
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,βxy,DIN Lab9,DIN	CIE LAB,XYZ,Yxy,LCh,s-RGB,βxy,Munsell(C/2)
	Lab99 Munsell(C/2)	
Color Difference Formula	$\Delta$ E*ab, $\Delta$ E*uv, $\Delta$ E*94, $\Delta$ E*cmc(2:1),	$\Delta$ E*ab, $\Delta$ E*94, $\Delta$ E*cmc(2:1), $\Delta$ E*cmc(1:1), $\Delta$ E*00, DIN $\Delta$ E
	ΔE*cmc(1:1),ΔE*00, DINΔE99	
Other Colorimetric Index	WI(ASTM E313,CIE/ISO,AATCC,Hunter),	WI(ASTM E313,CIE/ISO,AATCC,Hunter),
	YI(ASTM D1925,ASTM 313),	YI(ASTM D1925,ASTM 313),
	Metamerism Index MI,	Metamerism Index MI,
	Staining Fastness, Color Fastness, Color Strength,	Staining Fastness, Color Fastness, Color Strength, Opacity, Color Card Search
	Opacity,Color Card Search	
Observer Angle	2°/10°	2°/10°
Illuminant	D65,A,C,D50,D55,D75,F1,F2(CWF),	D65,A,C,D50,F2(CWF),
	F3,F4,F5,F6,F7(DLF),	F7(DLF),F10
	F8,F9,F10(TPL5),F11(TL84),	(TPL5),F11(TL84),F12
	F12(TL83/U30)	(TL83/U30)





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**Spectrocolorimeter** 





	Spectrogram/Values, Samples	Spectrogram/Values, Samples
Displayed Data	Chromaticity Values, Color Difference	Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset
	Values/Graph, PASS/FAIL Result, Color	
	Simulation, Color Offset	
Displayed Accuracy	0.01	0.01
Measuring Time	About 1.5s (Measure SCI & SCE about 3.2s)	About 1.5s (Measure SCI & SCE about 3.2s)
Repeatability	Chromaticity value: MAV/SCI, within ΔE*ab 0.05 ( When a white calibration plate is measured 30 times at 5 second intervals after white calibration)	Chromaticity value: MAV/SCI, within ΔE*ab 0.06 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
Inter-instrument Error	MAV/SCI, Within ΔE*ab 0.3	MAV/SCI, Within ΔE*ab 0.3
	(Average for 12 BCRA Series II color tiles)	(Average for 12 BCRA Series II color tiles)
Measurement Mode	Single Measurement, Average	Single Measurement, Average Measurement(2-99times)
	Measurement(2-99times)	
Locating Method Dimension	Camera Locating,stabilizer cross position	Camera Locating, stabilizer cross position
Veight Dimension	L*W*H=81X71X214mm About 460g	L*W*H=81X71X214mm
•••Gigill	Li-ion battery, 6000 measurements	About 460g
Battery	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 S creen	3.5-inch TFT color LCD, Capacitive Touch Screen
Data Port	USB,Bluetooth 5.0	USB
	Standard 1000 Pcs, Sample 30000	Standard 1000 Pcs, Sample 20000 Pcs(One data is able to include SCI/SCE)
Data Storage		
	Pcs(One data is able to include SCI/SCE)	
Language	Simplified Chinese, English, Traditional Chinese	Simplified Chinese, English, Traditional Chinese
Operating Environment	0~40°C, 0~85%RH (no condensing), Altitude	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),	Power Adapter, USB Cable, User Guide, SQCX Software(Download from office website), White and Black Calibration Cavity, Protective Cover, Wrist strap, 8mm flat aperture, 8mm tip aperture
	White and Black Calibration Cavity,	
	Protective Cover, Wrist strap, 8mm	
	flat aperture, 8mm tip aperture,	
	4mm flat aperture, 4mm tip aperture	
Optional Accessory	USB Micro Printer, Powder Test	USB Micro Printer, Powder Test Box,
Notes	Box,Bluetooth Micro Printer Technical parameters are only for	Technical parameters are
	reference, subject to the actual sale of the product	only for reference, subject
		to the actual sale of the product





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https://www.maniapurefoundation.org/



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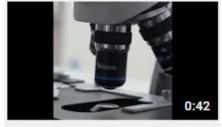


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