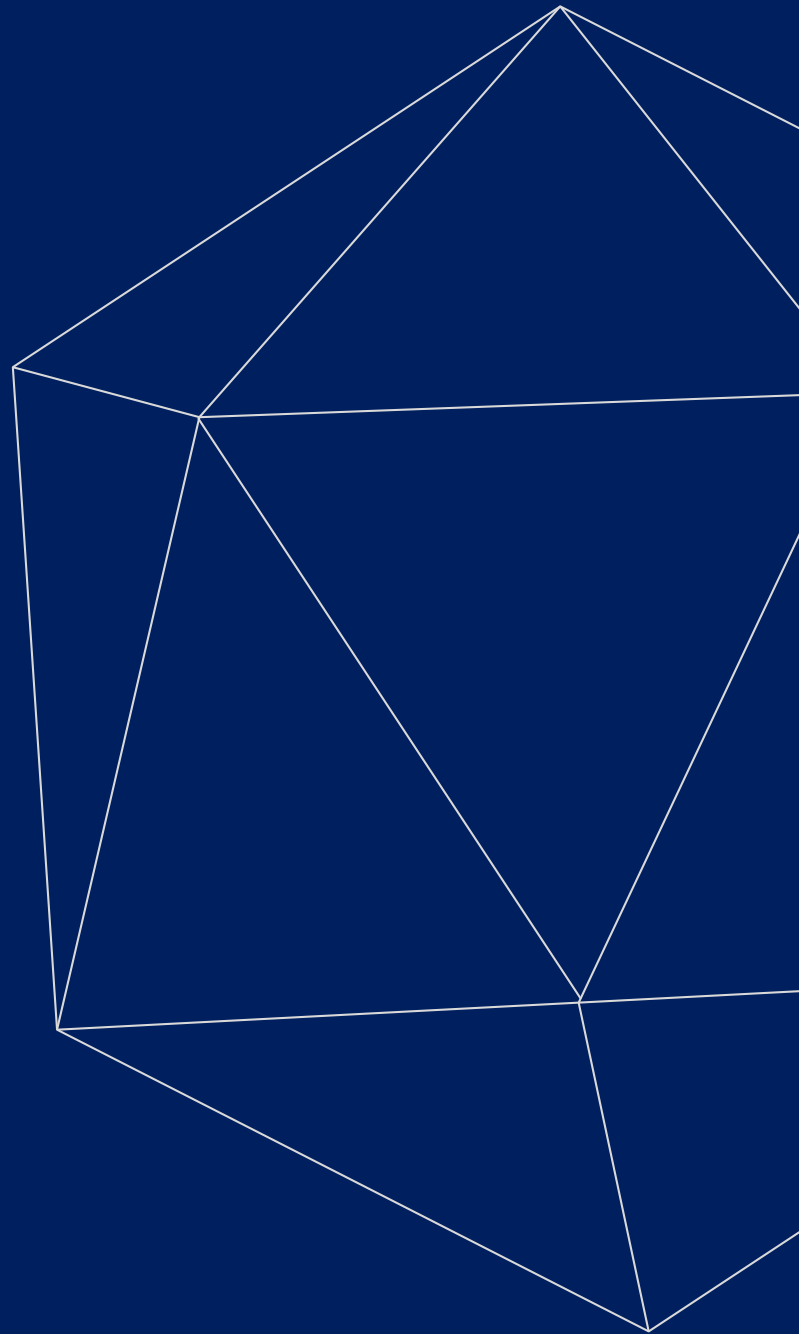# Kalstein

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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.

Online Inductions and Trainings

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.

#Letsgivemore 💚

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.
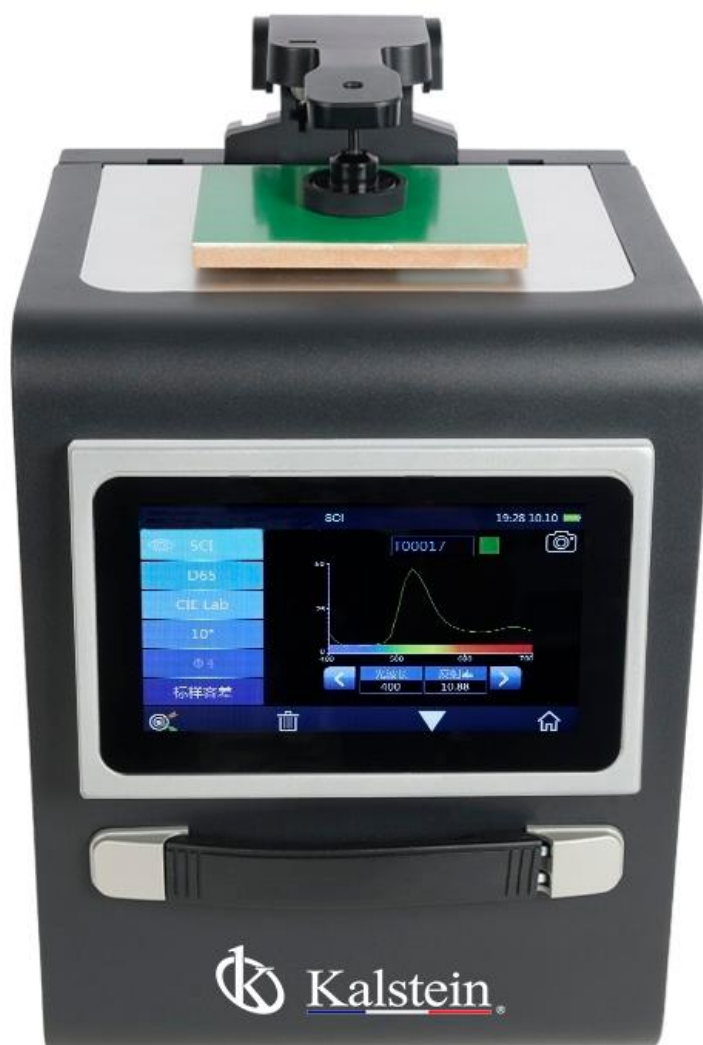
Kalstein Worldwide

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® Spectrophotometer
Portable Desktop Spectrophotometer
Model YR05487

CE

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Product Description:

Kalstein portable desktop spectrophotometer YR05487 adopts built-in silicon photodiode array (40 groups in double rows) sensors and imported white board, and gives consideration to the speed of measurement and the convenience of operation. The portable desktop spectrophotometer YR05487 is a spectrophotometer developed by Kalstein with independent core spectroscopic technology. It adopts built-in silicon photodiode array (40 groups in double rows) sensors and imported white board, and gives consideration to the speed of measurement and the convenience of operation. The rotating and pressing structure makes the test more convenient. YR05487 portable desktop spectrophotometer color measurement instrument features with repeatability Δ E * ab easily control within 0.02, and inner errors Δ E * ab control within 0.15. This accuracy measurement makes it good used in the lab color accurate analysis and transfer.

Application of YR05484 Portable Desktop Spectrophotometer:

YR05487 portable desktop spectrophotometer color measurement instrument equipped with Φ4mm and Φ8mm free switch diameter measurement, good for horizontal or vertical measurement, wider adaptability, suitable for precise color measurement and quality control in textile and garment printing and dyeing, plastic electronics, ceramics and other industries; and it can be used for fluorescence sample measurement.

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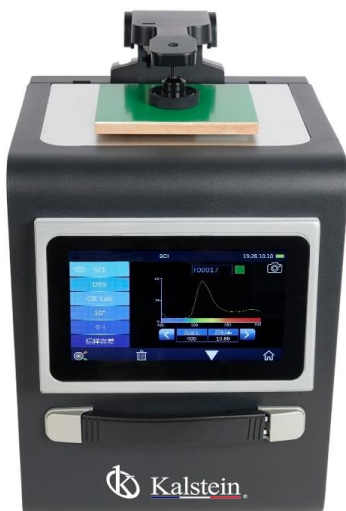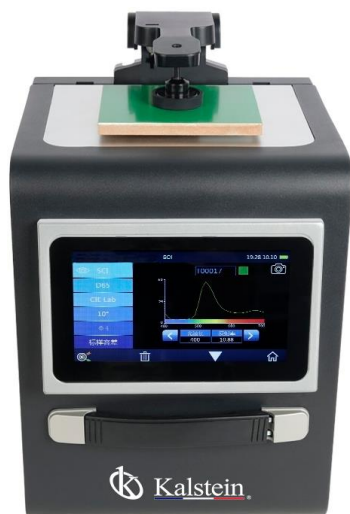
KALSTEIN® Spectrophotometer
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Technical Adventages:

✓ Adopt international common use d/8 SCI/SCE Synthesis technologyYR05486 spectrocolorimeter adopts D/8(diffused illumination, 8-degree viewing angle) which is widely applicable in the world, and SCI/SCE (specular component included/specular component excluded) Synthesis technology, supporting SCI+SCE simultaneous rapid measurement, and the test time is about 3.2 seconds.

✓ Silicon photodiode array sensor (40 groups with double rows)Double 40 array sensor with larger area, high light saturation, high sensitivity of low light and wide spectral response range ensure the measurement speed, accuracy, stability and consistency of the instrument.

✓ A variety of color space, a variety of observation light sourcesYR05486 portable desktop spectrophotometer color measurement instrument provides CIE LAB, XYZ, Yxy, LCh, CIE LUV, s – RGB, HunterLab, βxy, DIN Lab99, Munsell color space (C / 2), and D65, A, C, D50, D55, D75, F1, F2 (CWF), F3, F4 and F5, F6 and F7 (DLF), F8, F9, F10 (TPL5), and F11 (TL84), F12 (TL83 / U30) light sources, which can meet the special measurement requirements under different measurement conditions.

✓ Adopt combination full spectrum LED light source and UV light sourceFull band balanced LED light source ensures sufficient spectral distribution in visible light range, avoids the spectral loss of white LED in specific band, ensures the accuracy of instrument measurement speed and measurement results, and professional UV light source ensures more reliable UV testing.

✓ Calirbation CertificateEach YR05486 spectrophotometer has been verified and tested. After leaving the factory, each instrument is verified according to the measurement standards of authoritative verification departments, and the measurement data are traceable to the National Metrotechnical Institute to ensure the authority of the instrument test data.

✓ Camera locating can clearly observe the measured areaYR05486 spectrophotometer has a built-in camera for positioning, which can accurately determine whether the measured part of the object is the center of the target through real-time viewing by the camera, thus improving the measurement efficiency and accuracy.

✓ Industrial-grade HD touch screen, easy to use user interfaceUsing 7-inch industrial grade hd touch screen, smooth operation, the user interface is easy to use and it makes the operation to become comfortable and convenient.

✓ Color management softwareSQCX quality management software with YR05486 spectrophotometer is suitable for quality monitoring and color data management in various industries. Data the user's color management, compare color differences, generate test reports, provide multiple color space measurement data, and customize the customer's color management.

✓ Optional AccessoryMicro printer, foot switch, rotating bracket can be freely selected according to the needs.

KALSTEIN® Spectrophotometer
Portable Desktop Spectrophotometer
Model YR05487

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Technical Description:

Model	YR05487
Optical Geometry	45/0(45 ring-shaped illumination, 0 degree viewing angle)
	Comply to CIE No.15, GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
Characteristic	Enhanced version spectrophotometer, Customized single aperture Φ18/8/4 mm diameter aperture, used in laboratory accurate analysis and transmission;
	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; It can be used for fluorescence sample measurement.
	It is used to measure the brightness factor and color coordinates of traffic signs, markings and reflective films. It contains GB 2893 and GB/T 18833 standard colors. It can customize the rectangular tolerance of polygons manually.
Integrating Sphere Size	Φ40mm
Light Source	Combined full spectrum LED light source, UV light source
Spectrophotometric Mode	Flat Grating
Sensors	Silicon photodiode array (double row 40 groups)
Wavelength Range	400~700nm
Wavelength Interval	10nm
Semiband Width	10nm
Measured Reflectance Range	0~200%
Measuring Aperture	Customized single aperture,LAV:Φ18mm/Φ20mm;MAV:Φ8mm/Φ10mm;SAV:Φ4mm/Φ5mm
Specular Component	45/0
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99 Munsell(C/2)
Color Difference Formula	ΔE*ab,ΔE*uv,ΔE*94,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*00, DINΔE99,ΔE(Hunter)
Other Colorimetric Index	WI(ASTM E313,CIE/ISO,AATCC,Hunter),
	YI(ASTM D1925,ASTM 313),
	Metamerism Index MI,
	Staining Fastness, Color Fastness, Color Strength, Opacity
	8° Glossiness,555 tone classification

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Portable Desktop Spectrophotometer
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Observer Angle	2°/10°
Illuminant	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4,F5,F6,F7(DLF),F8,F9,F10(TPL5), F11(TL84),F12(TL83/U30)
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color Simulation, Color Offset
Measuring Time	About 1.8s
Repeatability	Chromaticity value: MAV/SCI, within ΔE*ab 0.02 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)
Inter-instrument Error	MAV/SCI, Within ΔE*ab 0.15 (Average for 12 BCRA Series II color tiles)
Measurement Mode	Single Measurement, Average Measurement(2-99times)
Locating Method	/
Dimension	L*W*H=370X240X260mm
Weight	About 7.8kg
Battery	AC 24V, 3A Power adapter power supply
Illuminant Life Span	5 years, more than 3 million times measurements
Display	7-inch TFT color LCD, Capacitive Touch Screen
Data Port	USB, Bluetooth ®5.0, trigger switch interface
Data Storage	Standard 1000 Pcs, Sample 30000 Pcs
Language	Simplified Chinese, English, Traditional Chinese
Operating Environment	0~40℃, 0~85%RH (no condensing), Altitude < 2000m
Storage Environment	-20~50℃, 0~85%RH (no condensing)
Standard Accessory	Power Adapter, USB Cable, User Guide, PC Software(Download from office website), White and Black Calibration Cavity, Protective Cover, Aperture (Optional Aperture)
Optional Accessory	Micro Printer, Foot Switch, Rotating Bracket
Notes	Technical parameters are only for reference, subject to the actual sale of the product

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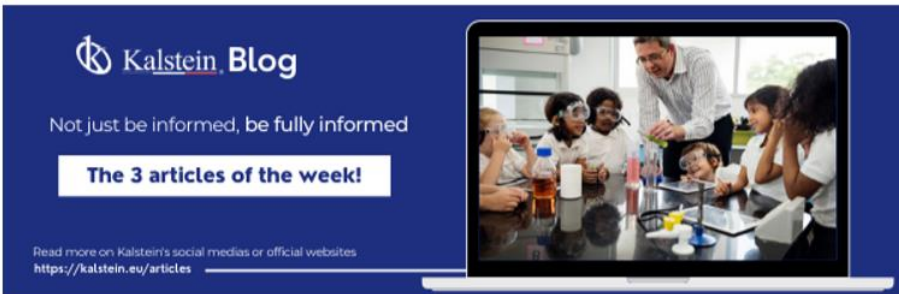A different accompaniment, at your service

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