



# LABORATORY SECTOR

SPECTROPHOTOMETER



**Kalstein**®

A different accompaniment, at your service





# Kalstein®

A different accompaniment, at your service

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## 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



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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.



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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

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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**  
**Grating Spectrophotometer With 8mm and 4mm Apertures**  
**Model YR055504**



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# KALSTEIN® Spectrophotometer

## Grating Spectrophotometer With 8mm and 4mm Apertures

### Model YR05504



#### Product Description:

Comply with CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724-1, ASTM E1164, DIN5033 Teil7, GB 2893, GB/T 18833, Kalstein new model YR05504 high accuracy grating spectrophotometer adopts 45/0 (45 ring-shaped illumination, 0 degree viewing angle), and with two apertures, it is used for accurate analysis and transmission of laboratory color. Apply in paints, inks, textiles, garments, printing and dyeing, printing etc industries for color transfer and quality control, also for Fluorescence sample color 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.



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# KALSTEIN® Spectrophotometer

## Grating Spectrophotometer With 8mm and 4mm Apertures

### Model YR05504



<b>Model</b>	YR05504
<b>Illumination/Observation system</b>	45/0(45 ring-shaped illumination, vertical viewing);
	Comply with CIE No.15, GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7,GB 2893、 GB/T 18833
<b>Features</b>	High accuracy spectrophotometer is used for accurate analysis and transmission of laboratory color.Apply in paints, inks, textiles, garments, printing and dyeing, printing etc industries for color transfer and quality control, also for Fluorescence sample color 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.
<b>Integrating Sphere Size</b>	Φ48mm
<b>Light Source</b>	Combined LED Light, UV Light
<b>Spectral separation device</b>	Concave Grating
<b>Detector</b>	256 Image Element Double Array CMOS Image Sensor
<b>Wavelength Range</b>	400~700nm
<b>Wavelength Pitch</b>	10nm
<b>Half Bandwidth</b>	10nm
<b>Reflectance Range</b>	0~200%
<b>Measuring Aperture</b>	MAV:Φ8mm/Φ10mm ; SAV:Φ4mm/Φ5mm
<b>Color Space</b>	CIE LAB,XYZ,Yxy,LCh,CIE LUV,HunterLAB,βxy
<b>Color Difference Formula</b>	$\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \Delta E$ (Hunter)
<b>Other Colorimetric Index</b>	WI(ASTM E313, CIE/ISO,AATCC,Hunter),
	YI(ASTM D1925, ASTM 313),
	MI (Metamerism Index),
	Staining Fastness, Color Fastness, Color Strength, Opacity,Supporting Colorimetric Polygon Tolerance
<b>Observer Angle</b>	2°/10°
<b>Illuminant</b>	D65,A,C,D50,D55,D75,F1,F2(CWF),F3,F4, F5, F6,F7(DLF),F8,F9, F10(TPL5),F11(TL84),F12(TL83/U30)
<b>Display Data</b>	Spectrogram/Values, Chromaticity Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset
<b>Measurement Time</b>	About 1.5s
<b>Repeatability</b>	Spectral reflectance: MAV,Standard deviation within 0.08% (400 nm to 700 nm: within 0.18%)
	Chromaticity value:within $\Delta E^*ab$ 0.03 ( When a white calibration plate is measured 30 times at 5 second intervals after white calibration)



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**KALSTEIN® Spectrophotometer**  
**Grating Spectrophotometer With 8mm and 4mm Apertures**  
**Model YR05504**



<b>Inter-instrument Error</b>	Within $\Delta E^*_{ab}$ 0.15(Average for 12 BCRA Series II color tiles)
<b>Measurement mode</b>	Single Measurement, Average Measurement(2-99)
<b>Size(L*W*H)</b>	184*77*105mm
<b>Weight</b>	About 600g
<b>Power source</b>	Li-ion battery. 5000 measurements within 8 hours
<b>Illuminant Life Span</b>	5 years, more than 3 million times measurements
<b>Display</b>	3.5-inch TFT color LCD, Capacitive Touch Screen
<b>Interface</b>	USB, Bluetooth 4.0
<b>Data memory</b>	Standard 1000 Pcs, Sample 30000 Pcs
<b>Language</b>	Chinese,English
<b>Working Environment</b>	Temperature: 0~40°C; Humidity: 0~85% (No Condensation);altitude: less than 2000 m
<b>Storage Environment</b>	Temperature: -20~50°C; Humidity: 0~85% (No Condensation)
<b>Standard Accessory</b>	Power Adapter, USB Cable, Built-in li-ion battery, User Manual, software(download from the website)White and Black Calibration Board, Protective Cover.
<b>Optional Accessory</b>	Micro Printer, Powder Test Box, Universal test components, Locating Plate
<b>Notes: The specifications are subject to change without notice.</b>	



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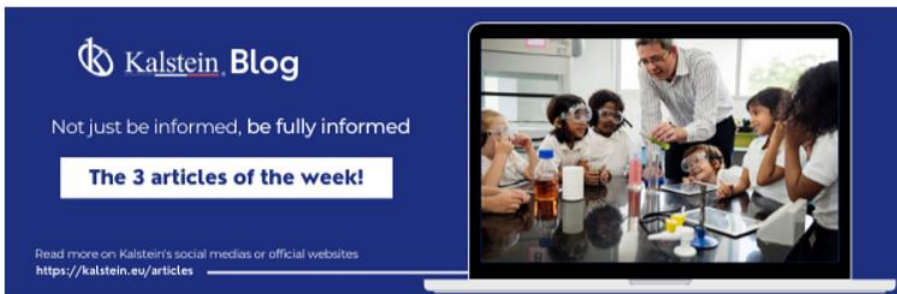


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