

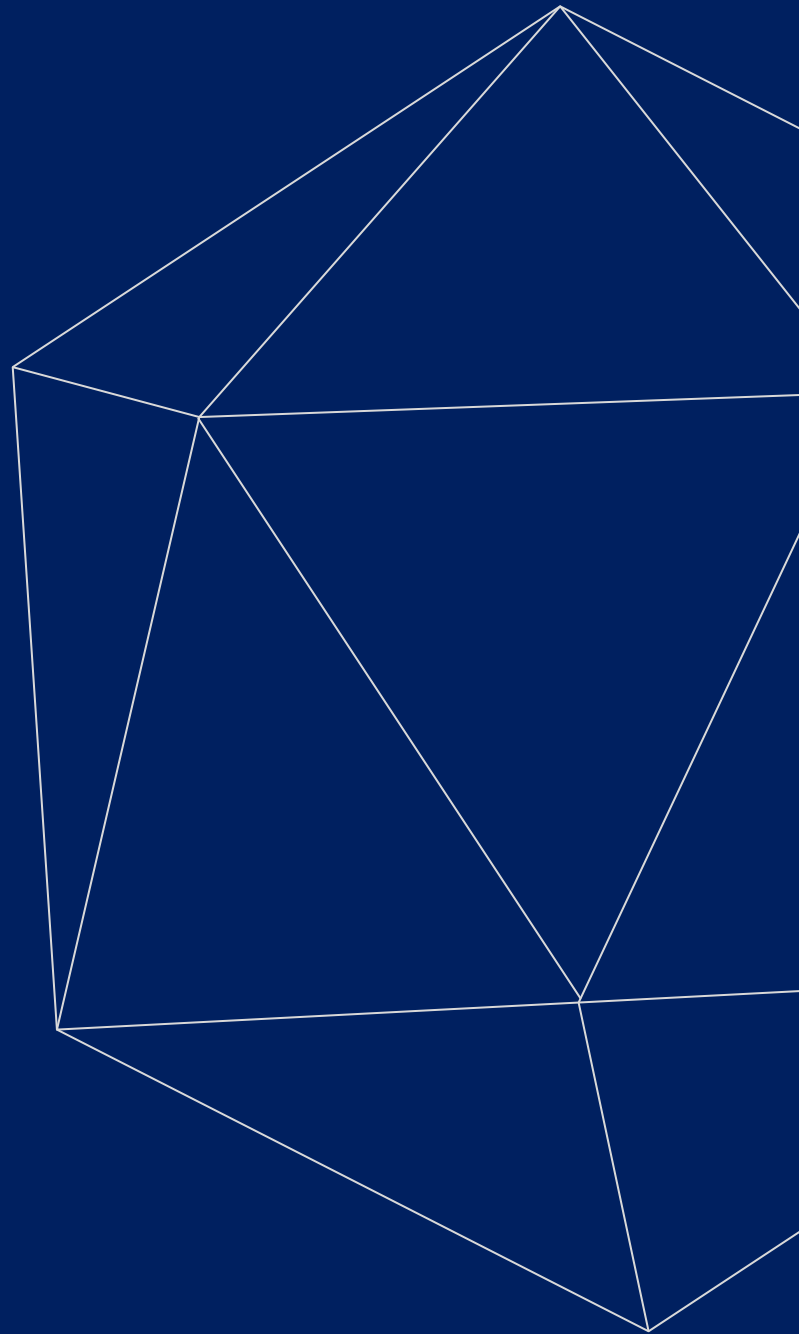
# LABORATORY LINES

## SPECTROPHOTOMETERS



**Kalstein**®

A different accompaniment, at your service





# Kalstein®

A different accompaniment, at your service

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® Spectrophotometers Precise Measurement Spectrophotometer Model YR0ST70



### #Letsgivingore

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



All rights reserved (© KALSTEIN France S. A. S.,  
Optimum Business Center 450 Rue Baden Powell,  
• 34000 Montpellier, France.  
Tél: +33 467158849 / +33 680760710/ +33 663810023  
<https://kalstein.eu>  
KALSTEIN FRANCE, S.A. S



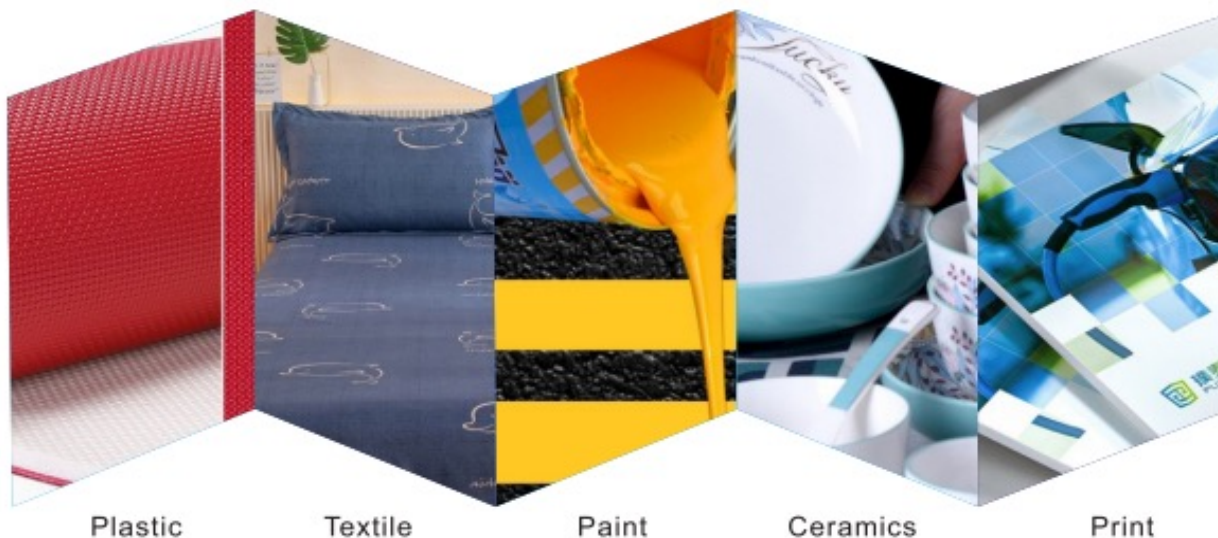


## KALSTEIN® Spectrophotometers Precise Measurement Spectrophotometer Model YR0ST70



### Application

Spectrophotometer YR0ST70 is equipped with 5 kinds of measuring apertures, which has wider adaptability, accurate color measurement and stable performance. Sample measurement.



Plastic

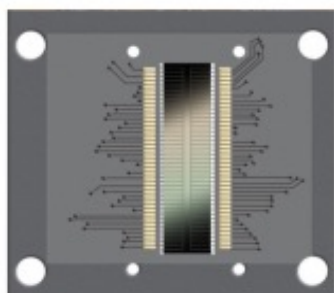
Textile

Paint

Ceramics

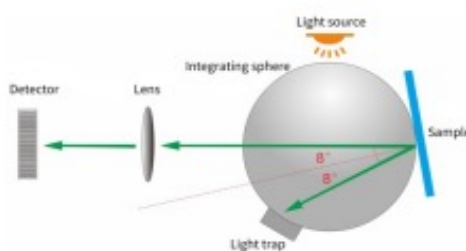
Print

### Features



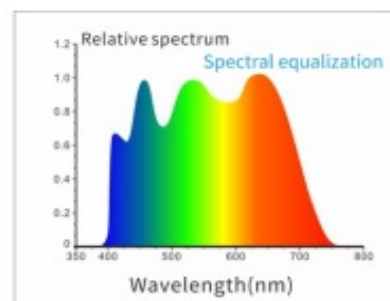
#### 1. Large area photodiode array (32 groups of dual columns) sensors

Larger area double 32 array sensor, strong light will not be saturated, weak light sensitivity is higher and wider spectral response range, to ensure the instrument measurement speed, accuracy, stability and consistency, independent core technology, and international standards  
The same platform is fully compatible.



#### 2. Adopt the international D/8 structure, support SCI+SCE simultaneous fast measurement

Spectrophotometer YR0ST70 adopts D/8 illumination observation conditions and SCI/SCE (including specular reflection/exclusive specular reflection) synthesis technology, which is widely applicable in the world, and supports SCI+SCE simultaneous rapid measurement, and the test time is about 1.5 seconds.



#### 3. Combined full spectrum LED light source and UV light source

The use of 360-780nm full-spectrum LED light source ensures sufficient spectral distribution in the visible light range, avoids the lack of spectrum in specific bands, strong light will not be saturated, weak light is more sensitive, and fluorescent samples can also be easily measured.



#### #Let's Give More

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



All rights reserved © KALSTEIN France S. A. S.,  
Optimum Business Center 450 Rue Baden Powell,  
• 34000 Montpellier, France.  
Tél: +33 467158849 / +33 680760710/ +33 663810023  
<https://kalstein.eu>  
KALSTEIN FRANCE, S.A. S



## KALSTEIN® Spectrophotometers Precise Measurement Spectrophotometer

Model YR0ST70



### 4. Equipped with five kinds of measuring apertures to meet the most samples measurement requirements

Spectrophotometer YR0ST70 factory standard with 8mm flat aperture, 8mm tip aperture, 4mm flat aperture, 4mm tip aperture, 1x3mm tip aperture, a total of five measuring apertures, to meet the measurement needs of most special samples.



### 5. Camera positioning can clearly observe the measured area

The YR0ST70 spectrophotometer has built-in camera. Through the real-time scene-taking of the camera, it can accurately determine whether the measured part of the object is the target center, which improves the measurement efficiency and accuracy.



### 6. Non-contact automatic calibration, professional imported white board, more wear-resistant, dirty, stable



### 7. Place the base with peace of mind to ensure that the whiteboard is not dirty



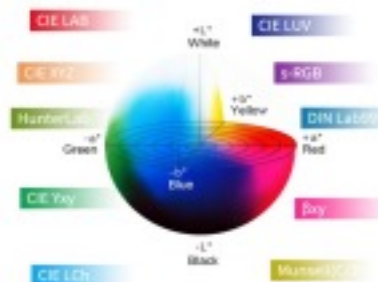
### 10. Excellent inter-stage difference and repeatability

Ensure the consistency of measurement data of multiple devices, which can be used for color matching and accurate color transfer.

### 8. Rich chromaticity index

Spectrophotometer YR0ST70 not only provides the commonly used color measurement, but also provide spectral reflectance, WI (ASTM E313, CIE/ISO, AATCC, Hunter, Taub Berger Stensby), YI (ASTM D1925, ASTM 313), Metamerism index of Mt, Staining Fastness, Color Fastness, Color Strength, Opacity, 8 degree gloss, 555 tone classification, Carbon (MydM), color density CMYK(A,T,E,M), Tint, Munsell chroma index (part of the function is realized by PC software).

### SUPPORT 10 COLOR SPACES



### 9. Offer 10 kinds of color measurement space and 41 kinds of observation light source

Offer CIE LAB, XYZ, Yxy, LCh, CIE LUV, s-RGB, HunterLab, βxy, DIN Lab99, Munsell(C/2) color spaces, and D65, A, C, D60, D65, D75, F1, F2(CWF), F3, F4, F5, F6, F7(DLF), F8, F9, F10(TPL5), F11(TL84), F12(TL83/U30), B, U35, NBF, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2, LED-C2, LED-C3, LED-C5. It also can be customized light source (A total of 41 kinds of light source, Partially realize through the PC software /APP software), and can meet the special measurement requirements under different measurement conditions.



### 11. Support Huawei Hongmeng, Android, IOS, WeChat applet, Windows program



### #Let's Give More

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



All rights reserved © KALSTEIN France S. A. S., Optimum Business Center 450 Rue Baden Powell, • 34000 Montpellier, France.  
Tit: +33 467158849 / +33 680760710 / +33 663810023  
<https://kalstein.eu>  
KALSTEIN FRANCE, S.A. S



# KALSTEIN® Spectrophotometers

## Precise Measurement Spectrophotometer

Model YR0ST70



### Product parameters

Model	YR0ST70 spectrophotometer
Optical Geometry	D/8 (diffused illumination, 8-degree viewing angle) SCI (specular component included)/SCE (specular component excluded) ; Include UV / excluded UV light source Conforms to CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
Characteristic	Adopt 3nh TS series core technology, 5 measuring apertures for accurate color analysis and transmission in laboratory It is used for precise color measurement and quality control in plastic electronics, paint and ink, textile and garment printing and dyeing, printing, ceramics and other industries, and for fluorescent sample measurement
Integrating Sphere Size	Φ40mm
Light Source	Combined full spectrum LED light source, UV light source
Spectrophotometric Mode	Flat Grating
Sensor	Silicon photodiode array (double row 32 groups)
Wavelength Range	360~780nm
Wavelength Interval	10nm
Measured Reflectance Range	0-200%
Measuring Aperture	5 apertures: MAV:Φ8mm/Φ10mm. SAV:Φ4mm/Φ5mm;LAV:1x3mm
Specular Component	SCI&SCE
Color Space	CIE LAB,XYZ,Yxy,LCh,CIE LUV,s-RGB,HunterLab,βxy,DIN Lab99,Munsell(C/2)
Color Difference Formula	$\Delta E^*ab, \Delta E^*uv, \Delta E^*94, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*00, \Delta E^*00, \Delta E^*99, \Delta E^*(\text{Hunter})$
Other Colorimetric Index	Spectral reflectance,WI(ASTM E313,CIE/ISO, AATCC, Hunter, TaubeBergerStensby),YI(ASTM D1925,ASTM 313) Metamerism Index MI,Staining Fastness, Color Fastness, Color Strength, Opacity 8° Glossiness,555 tone classification, Carbon (My,dM), color density CMYK(A,T,E,M), Tint, Munsel chroma index (part of the function is realized by PC software)
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),B,U35,NBF, ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4,LED-B5,LED-BH1,LED-RGB1,LED-V1,LED-V2,LED-C2,LED-C3,LED-C5, able to customized light source (total 41 kinds of light source, Partially realize through the PC software /APP software)
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, PASS/FAIL Result, Color simulation, Color Offset
Measuring Time	About 1.5s
Repeatability	Chromaticity value: MAV/SCI, within $\Delta E^*ab$ 0.02 ( When a white calibration plate is measured 30 times at 5 second intervals after white calibration) Spectral reflectance: MAV/SCI, Standard deviation within 0.08% (400 nm to 700 nm: within 0.18%)
Inter-instrument Error	MAV/SCI, Within $\Delta E^*ab$ 0.15 (Average for 12 BCRA Series II color tiles)
Display Resolution	0.01
Measurement Mode	Single Measurement, Average Measurement(2-99times)
Locating Method	Camera Locating,stabilizer cross position
Dimension	L*W*H=129X76X217mm
Weight	Approx 600g
Battery	Li-Ion battery, 6800 measurements within 8 hours
Illuminant Life Span	10 years, more than 1.5 million times measurements
Displayed Data	3.5-inch TFT color LCD, Capacitive Touch Screen
Data Port	USB, Bluetooth ®
Data Storage	Standard 1000 Pcs, Sample 30000 Pcs, APP/PC mass storage
Software Support	Andriod,IOS,Windows,Harmony OS,Wechat applets
Language	Simplified Chinese, English, traditional Chinese
Operating Environment	0~40°C, 0~85%RH (no condensing), Altitude < 2000m
Storage Environment	-20~50°C, 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, Wrist strap, 8mm flat aperture, 8mm tip aperture, 4mm flat aperture, 4mm tip aperture,1x3mm tip aperture
Optional Accessory	Micro Printer, Powder Test Box
Notes	The specifications are subject to change without notice.



#Let'sgivemore 🍀

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



All rights reserved © KALSTEIN France S. A. S.,  
Optimum Business Center 450 Rue Baden Powell,  
• 34000 Montpellier, France.  
Tél: +33 467158849 / +33 680760710/ +33 663810023  
<https://kalstein.eu>  
KALSTEIN FRANCE, S.A. S







 **Kalstein**<sup>®</sup>  
A different accompaniment, at your service

#LETSGIVEMORE 

**WITH THE  
ACQUISITION  
OF A KALSTEIN  
EQUIPMENT**

YOU MAKE A CONTRIBUTION TO:



**Fundación  
Jacinto Convit**

<https://www.jacintoconvit.org/>



<https://onetreepanted.org>



**Humatem**

Solidarité et coopération  
biomédicale

<https://www.humatem.org/>

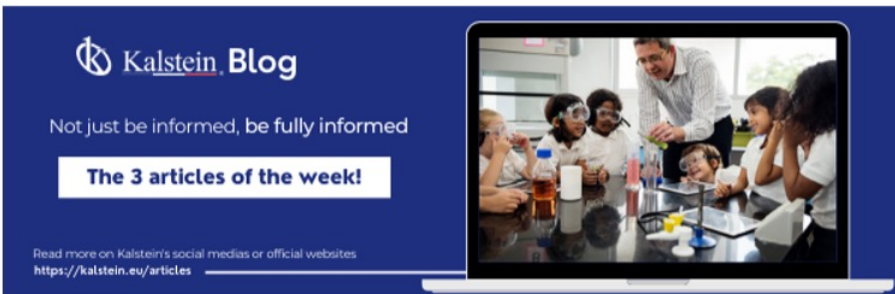


**MANIAPURE  
FOUNDATION USA**

<https://www.maniapurefoundation.org/>



**Articles Kalstein**  
(Social Networks and Official Websites)



**Kalstein Blog**  
Not just be informed, be fully informed

**The 3 articles of the week!**

Read more on Kalstein's social medias or official websites  
<https://kalstein.eu/articles>



**1**  
Read this ARTICLE NOW

**How does the climate affect your microscope?**

microscope is an instrument that allows observing and measuring objects at a very small scale. This is achieved through a complex system of lenses, which form

**Kalstein Blog**

**Article of the week:**  
How does the climate affect your microscope?

Read more on Kalstein's social medias or official websites  
<https://kalstein.eu/articles>



**2**  
Read this ARTICLE NOW

**What is the importance of the laboratory refrigerator?**

refrigerator is a device that is one of the most used equipment in laboratories to maintain, in a controlled environment (refrigerated space), various fluids and substances.

**Kalstein Blog**

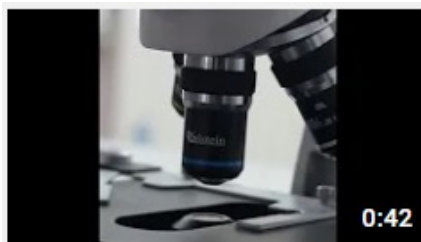
**Article of the week:**  
What is the importance of the laboratory refrigerator?

Read more on Kalstein's social medias or official websites  
<https://kalstein.eu/articles>

**Kalstein Training Videos**  
(Youtube Channel and Official Websites)



**Kalstein France - Jacinto Convit Foundation / Alliances**  
23 views • 3 years ago



**Kalstein's Microscopes**  
445 views • 1 week ago



PARIS - FRANCE  
**HEADQUARTER**  
2 Rue Jean Lantier  
75001 Paris - France

**Tlf:** +33 (0) 01 78 95 87 89  
**Cel:** +33 (0) 6 80 76 07 10  
[sales@kalstein.eu](mailto:sales@kalstein.eu)

<https://kalstein.eu/>  
<https://www.kalstein.fr/>

