



# LABORATORY SECTOR

SPECTROPHOTOMETER



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A different accompaniment, at your service





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A different accompaniment, at your service

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## KALSTEIN® Spectrophotometer Non Contact Benchtop Spectrophotometer Model YR05483



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# KALSTEIN® Spectrophotometer

## Non Contact Benchtop Spectrophotometer

### Model YR05483



#### Product Description:

YR05483 spectrophotometer is a color measuring instrument with 45/0 optical geometry (45 ring-shaped illumination, vertical viewing), to achieve precise non-contact measurement between the measuring probe and the sample like liquids, sauces, powders, etc., which is developed by Kalstein independently with independent intellectual property. YR05483 spectrophotometer is a color measuring instrument with 45/0 optical geometry(45 ring-shaped illumination, vertical viewing), to achieve precise non-contact measurement between the measuring probe and the sample like liquids, sauces, powders, etc., which is developed by 3nh independently with independent intellectual property. YR05483 non-contact benchtop spectrophotometer can be applied for accurate color analysis and transmission in laboratories and R & D industries; it can also be used for accurate color measurement and quality control of automated production lines; it is widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronics, paint and ink, printing, ceramics and other industries, and also for fluorescence sample measurement. Its unique innovative design can not only provide non-contact measurement scheme directly from the production line, but also ensure stable and high-precision measurement results. YR05483 non-contact spectrophotometer will not touch the sample in the measurement process, to prevent damage to the sample, but also to avoid cross contamination.

#### Product Features:

- ✓ Non-contact, 45 / 0 geometric optical structure to measure the reflectance and chromaticity of objects
- ✓ The movable measuring head moves up and down according to the actual height of the measured object
- ✓ Large touch screen measurement interface, real-time display of measurement data, to realize more measurement functions
- ✓ Multiple measurement modes (sample, quality control, continuous statistical mode) can be selected to meet the personalized needs
- ✓ According to the actual height of the testing sample, the measuring probe can be moved up and down automatically and the height of the testing sample can be stored
- ✓ TFT true color 7 inch capacitive touch screen; concave grating
- ✓ 256 Image Element Double Array CMOS Image Sensor.
- ✓ Wavelength range: 400~700nm, 10nm output.
- ✓ Lighting source: full spectrum LED light UV
- ✓ Multiple measurement modes: Sample mode, QC mode, Continuous Statistical mode to meet more customer needs.
- ✓ Large capacity storage: Sample mode + QC mode: 40,000 Continuous statistics mode: 10,000
- ✓ Built-in camera locating.
- ✓ PC software has powerful extended function.



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**KALSTEIN® Spectrophotometer**  
**Non Contact Benchtop Spectrophotometer**  
**Model YR05483**



**Application Industry:**

45/0 non- contact benchtop spectrophotometer can achieve precise non- contact measurement between the measuring probe and the sample like liquids, sauces, powders, etc. It can be applied for accurate color analysis and transmission In laboratories and R & D industries; It can also be used for accurate color measurement and quality control of automated production lines; It is widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronics, paint and ink, printing, ceramics and other industries, and also for fluorescence sample measurement.



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### Model YR05483



<b>Model</b>	YR05483
<b>Illumination system</b>	45/0 method(45 ring-shaped illumination, vertical viewing);Conforms to 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>	45/0 non- contact benchtop spectrophotometer can achieve precise non-contact measurement between the measuring probe and the sample like liquids, sauces, powders, etc. It can be applied for accurate color analysis and transmission In laboratories and R & D industries; It can also be used for accurate color measurement and quality control of automated production lines; It is widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronics, paint and ink, printing, ceramics and other industries, and also for fluorescence sample measurement.
<b>Light Source</b>	Full spectrum LED light,UV light
<b>Spectrophotometric Mode</b>	Concave Grating
<b>Sensor</b>	256 Image Element Double Array CMOS Image Sensor
<b>Wavelength Range</b>	400~700nm/10nm output
<b>Reflectance Range</b>	0~200%
<b>Measuring Aperture</b>	Φ20mm(can be customized <20mm)
<b>Non-contact Distance</b>	7.5mm
<b>Sample Height</b>	0~150mm
<b>Distance Adjustment Method</b>	Manual adjustment and automatic adjustment (test height can be stored)
<b>Measuring mode</b>	Sample mode/QC Mode/Continuous statistics mode
<b>Locating Method</b>	Camera Locating
<b>Color Space</b>	CIE LAB,XYZ,Yxy,LCh,CIE LUV,HunterLAB
<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),TI(ASTM E313,CIE/ISO), Metamerism Index MI, Staining Fastness,Color Fastness,Color Strength,Opacity
<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>Displayed Data</b>	Spectrogram/Values, Samples Chromaticity Values, Color Difference Values/Graph, Chromaticity Graph, Color Simulation, PASS/FAIL Result, Color Offset
<b>Measuring Time</b>	About 1.5s
<b>Data Storage</b>	Sample mode + QC mode: 40,000; Continuous statistics mode: 10,000
<b>Repeatability</b>	Spectral reflectance: Standard deviation within 0.08% 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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Model YR05483



<b>Inter-instrument Error</b>	Within $\Delta E^*ab$ 0.2 (Average for 12 BCRA Series II color tiles)
<b>Measurement Mode</b>	Single Measurement, Average Measurement(2 ~ 99 times)
<b>Dimension</b>	330*250*370mm
<b>Weight</b>	About 10 kg
<b>Power Supply</b>	DC 24V, 3A Power Adapter
<b>Illuminant Life Span</b>	5 years, more than 3 million times measurements
<b>Display Screen</b>	7" TFT Capacitive Screen-touch Display
<b>Data Port</b>	USB/RS-232, Bluetooth®4.0
<b>Language</b>	Simplified Chinese,Traditional Chinese,English
<b>Working Environment</b>	Temperature: 0~40°C; Humidity: 0~85% (No Condensation); Altitude < 2000m
<b>Storage Environment</b>	Temperature: -20~50°C; Humidity: 0~85% (No Condensation)
<b>Standard Accessory</b>	Power Adapter, User Manual, USB cable, Standard Calibration Board, Black Calibration Cavity,
<b>Notes</b>	The specifications are subject to change without notice.



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