



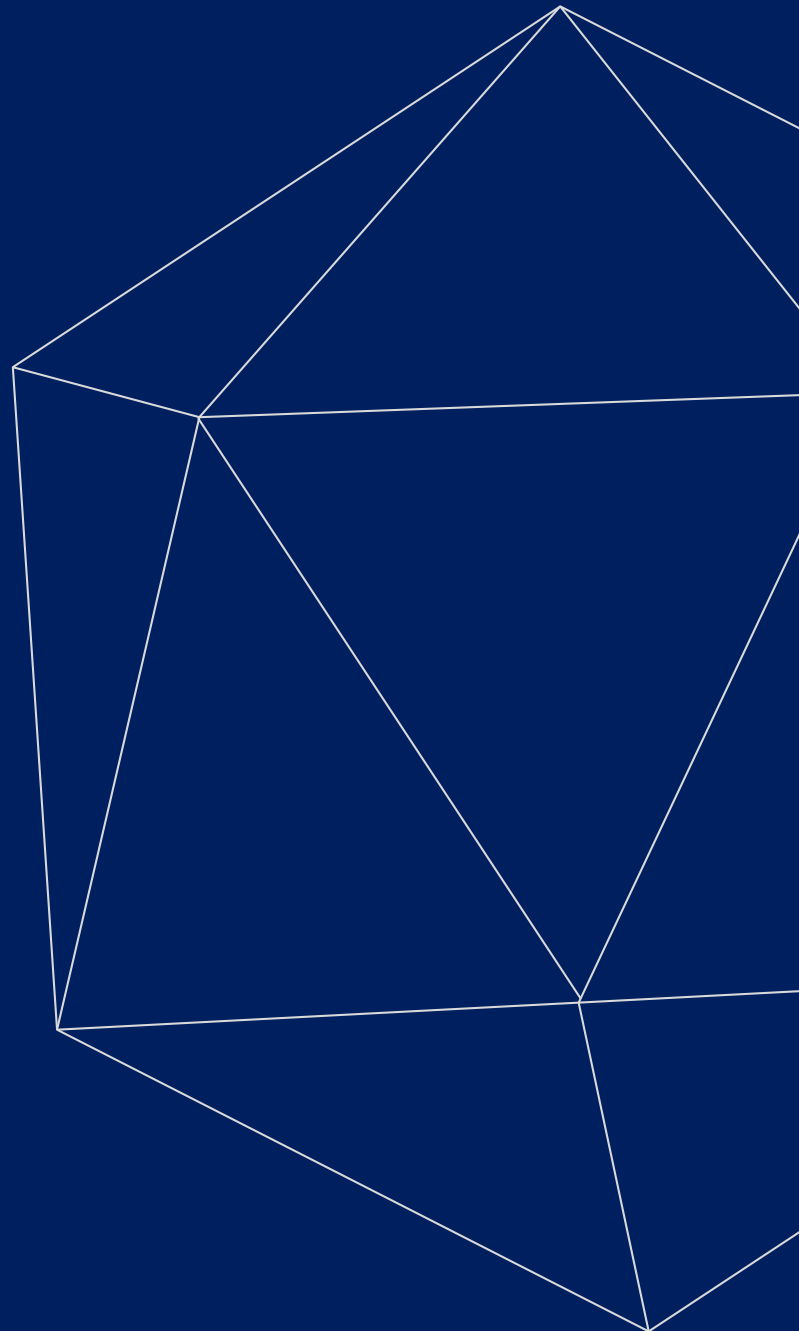
# LABORATORY SECTOR

SPECTROPHOTOMETER



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## KALSTEIN® Spectrophotometer Non Contact Spectrophotometer Model YR05481



Spectral Display



Multiple measurement modes



Concave grating



7in color touch screen



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## KALSTEIN® Spectrophotometer Non Contact Spectrophotometer Model YR05481

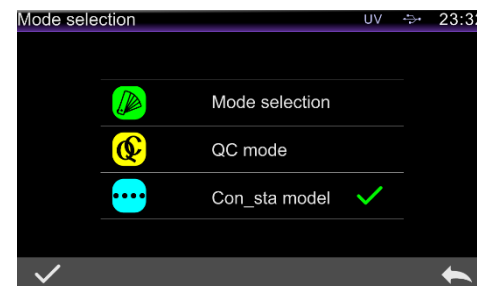


### Product Description:

YR05481 spectrophotometer is a color measuring instrument that adopts D/8 (diffuse illumination, 8° direction reception, SCI includes specular reflection light) standard. , powder and other non-contact precision color measurement. It can be used for accurate color analysis and transmission in laboratories and R&D industries; it can also be used for accurate color measurement and color quality control in automated production lines.

### Instruments Features:

- ✓ Professional D/8 optical structure.
- ✓ Non-contact, D/8 optical structure measures the reflectivity and chromaticity value of objects.
- ✓ D/8 has wider applicability and supports color matching.



### The Measurement Height is Adjustable:

The movable measuring head can be adjusted up and down according to the actual height of the measured object, and the measuring height can be stored, and the maximum support 160mm sample.

### Various Measurement Modes:

Support sample mode, quality control mode, continuous statistics mode to meet individual needs.

### Application:

Non-contact benchtop spectrophotometers are widely used in cosmetics, fruits and vegetables, food hygiene, plastic electronics, paint and ink, printing, ceramics and other industries. Its unique innovative design not only provides non-contact measurement solutions directly from the production line, but also ensures stable and high-precision measurement results.

### Simple to Use and Easy to Operate:

Simple operation interface, no need for complicated settings, non-professionals can also easily measure, touch-type large-screen measurement interface, real-time display of measurement data, more measurement functions are realized.



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# KALSTEIN® Spectrophotometer

## Non Contact Spectrophotometer

### Model YR05481



#### Technical Description:

<b>Model</b>	YR05481
<b>Optical Geometry</b>	D/8 (diffuse illumination, receiving in 8° direction, SCL includes specular reflection light); CIE No.15, GB/T3978, GB 2893, GB/T 18833, 1907724-1, ASTM E1164, DIN5033 Teil7
<b>Light Source</b>	Full spectrum LED light source
<b>Spectrophotometric Mode</b>	Concave Grating
<b>Sensor</b>	256-pixel dual-array CMOS image sensor
<b>Wavelength Range</b>	400-700nm, 10nm output
<b>Measured Reflectance Range</b>	0-200%
<b>Measuring Aperture</b>	Ø20mm (Ø10mm can be customized)
<b>Non-contact distance</b>	3.0mm(+0.2mm)
<b>Sample height</b>	0-160mm (Using the original support base plate)
<b>Distance adjustment method</b>	Manual adjustment (storable test height)
<b>Measurement mode</b>	Sample mode, quality control mode, continuous statistics mode
<b>Locating</b>	Camera locating
<b>Color Space</b>	CIE LAB,XYZ,Yxy, LCh,CIE LUV, Musell,s-RGB, HunterLab,Bxy,DIN Lab99
<b>Color Difference Formula</b>	AE*ab,AE*94,AE*cmc(2:1),4E*cmc(1:1),4E*00,4E (Hunter), DINA E99
<b>Other Colorimetric Index</b>	WI(ASTM E313, CIE/ISO,AATCC,Hunter), YI(ASTM D1925,
	ASTM 313),, Metamerism index MI,Staining Fastness, Color
	Fastness, Strength, Opacity
<b>Observer Angle</b>	2°/10°
<b>Illuminant</b>	D65,A,C,D50,D55,075,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, Color simulation, pass/fail result, display tolerance can
	be set
<b>Measuring Time</b>	Fast mode about 1.0s (0.2-1.5s adjustable)
<b>Data Storage</b>	Sample mode + quality control mode 18,000;Continuous statistical
	mode 30,000, totaling no more than 48,000



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**KALSTEIN® Spectrophotometer**  
**Non Contact Spectrophotometer**  
**Model YR05481**



<b>Repeatability</b>	In the optimal measurement mode (when a single measurement time is
	1.5 seconds): Spectral reflectance: within 0.1% of standard deviation: Chromaticity
	value: AE*ab within 0.04(After the instrument is warmed up and calibrated, measure
	the average value of the whiteboard 30 times at an interval of 5s)
<b>Inter-instrument Error</b>	Within AE*ab 0.25(Measured average value of 12 tiles of BCRA series II)
<b>Measurement method</b>	Single measurement, average measurement (2-99 times)
<b>Dimension</b>	330*250*370mm
<b>Weight</b>	About 10Kg
<b>Power</b>	AC 24V, 3A Power adapter power supply
<b>illuminant Life Span</b>	5 years, more than 3 million times measurements
<b>Display</b>	7-inch TFT color LCD, Capacitive Touch Screen
<b>Data Port</b>	USB
<b>Language</b>	Simplified Chinese, Traditional Chinese, English
<b>Operating Environment</b>	0~40°C, 0-85%RH (no condensation), altitude: less than 2000m
<b>Storage Environment</b>	-20~50°C, 0-85%RH (no condensation)
<b>Standard Accessory</b>	Power adapter, manual, data cable, standard calibration board,
	black calibration box
<b>Notes</b>	This model is specially suitable for streamlined production lines, in-depth function
	customization will incur additional customization costs



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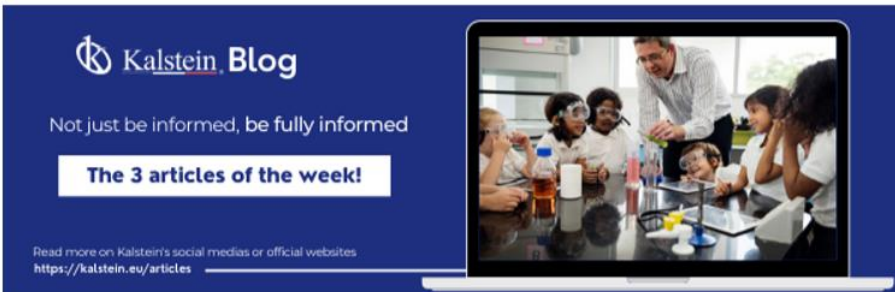
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