



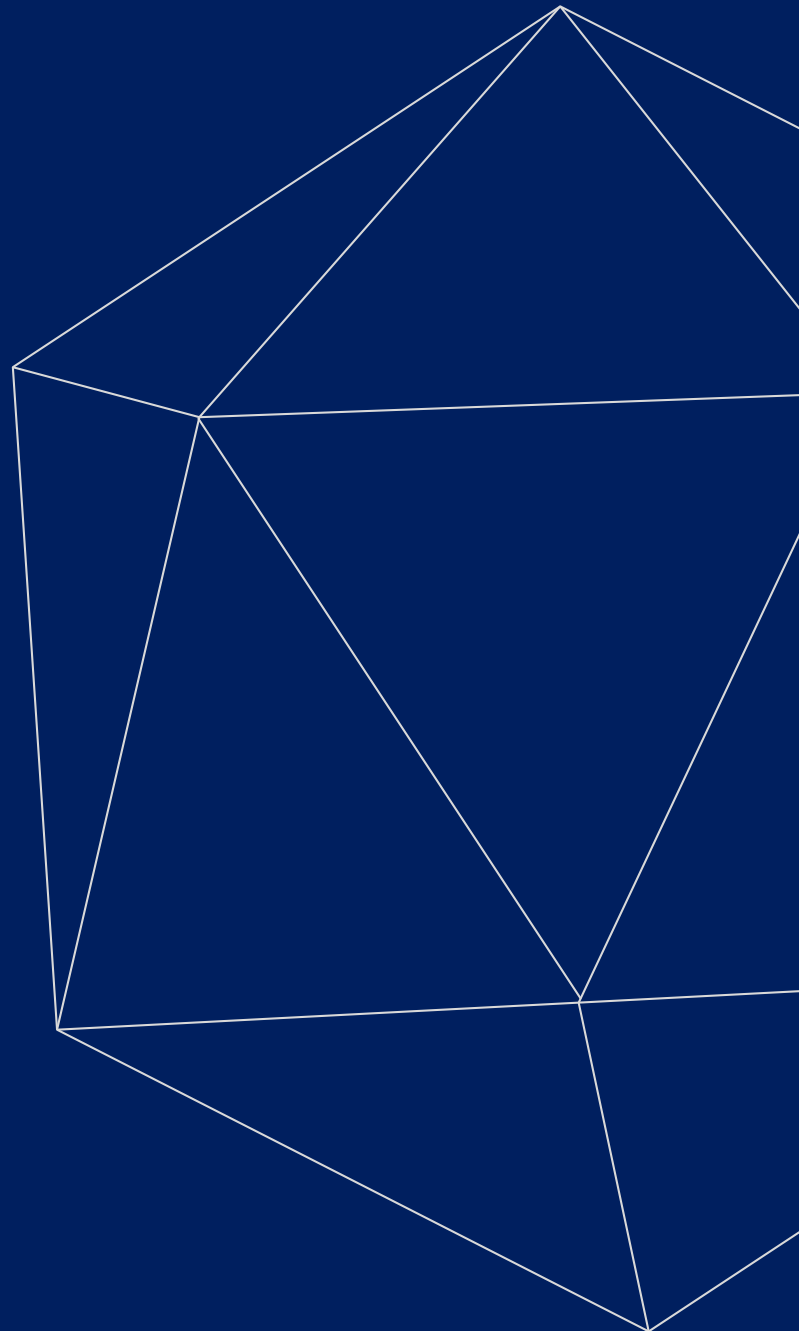
LABORATORY SECTOR

SPECTROPHOTOMETER



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KALSTEIN® Spectrophotometer
Handheld Color Spectrophotometer
Model YR05499



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KALSTEIN® Spectrophotometer

Handheld Color Spectrophotometer

Model YR05499



Product Description:

YR05499 handheld color spectrophotometer not only can help to perform color matching and color management studies, but also can control product quality management accurately. The instrument is equipped with high-end color management software which can connect PC to achieve more extension functions. YR05499 color spectrophotometer is developed by Kalstein with independent intellectual property rights. It uses 45/0 geometrical optical structure, comply with CIE No.15, GB/T 3978. With human body engineering mechanics and humanized operation design, YR05499 color spectrophotometer has stable performance precise measurement and powerful functions in the leading position of the same industry. With 400~700nm, YR05499 handheld color spectrophotometer features with high accuracy ΔE^*_{ab} 0.04, and 8mm aperture makes measurement so easy. It can save 1000 Standards, 15000 Samples and you also can input your own LAB or XYZ value into the instrument. With SQC8 software, you can do better color control management. Plus, it is widely used in plastic, electronic, paint, ink, textile, garment, printing and dyeing, food, medical, cosmetic, industries, scientific research institutes, schools and laboratories.



Portable Color Spectrophotometer Product Features:

- ✓ Aesthetic design perfectly combined with ergonomics structure.
- ✓ 45/0 geometrical optics structure, comply with CIE, ISO, ASTM, DIN standard.
- ✓ 3.5 inch large capacitive touch screen.
- ✓ Two standard observer perspectives, multiple light sources modes, a variety of color systems.
- ✓ The repeatability ΔE^*_{ab} is within 0.04, the errors between each instrument ΔE^*_{ab} is less than 0.2.
- ✓ Large capacity storage, can save more than 10000 data
- ✓ PC software with powerful extension functions.
- ✓ High hardware configuration with a number of innovative technologies.
- ✓ Oversized integrating sphere, more effective homogenization ray of lights and precise measurement.
- ✓ 15° oblique angle screen, more in line with the human eye observation



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KALSTEIN® Spectrophotometer

Handheld Color Spectrophotometer

Model YR05499



Technical Specifications:

Model	YR05499
Illuminating/Viewing Method	45°/0 (45° ring illuminating, 0° viewing) Comply to standard CIE No. 15, GB/T3978, GB2893, GB/T18833
Integrating Sphere Size	Φ58mm
Measuring Aperture	Φ8mm
Observer	2°/10°
Repetitive Error	Spectral Reflectance: standard deviation within 0.1%(400~700nm: within 0.2%) Colorimetric Value: standard deviation $\Delta E^*ab \leq 0.04$ (Measurement Conditions: white calibration plate measured 30 times at 5 seconds intervals after white calibration performed.)
Inter-Instrument Error	$\Delta E^*ab \leq 0.2$ (Average value of measuring the 12 tint plates of BCRA series II)
Wavelength Range	400~700nm
Wavelength Pitch	10nm
Reflectance Range	0~200%
Light Source Type	D65, D50, A, C, D55, D75, F2, F6, F7, F8, F10, F11, F12
Light Source Device	Combined LED Light
Light Source Life	5 years, more than 1.6 million measurements
Sensor	Silicon Photoelectric Diode Array
Color Space	CIE LAB, XYZ, Yxy, LCh, CIE LUV
Color Difference Formula	ΔE^*ab , ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00
Display Data	Spectral Graph/Data, Sample Chromatic Value, Color Difference Value/Graph, PASS/FAIL Result, Color Offset, Color Simulation
Other Chromaticity Data	Whiteness – WI(ASTM E313, CIE/ISO,AATCC,Hunter),
	Yellowness-YI(ASTM D1925, ASTM 313),
	TI(ASTM E313, CIE/ISO), Metamerism Index (Mt)
	Colour Stain, Color Fastness, Color Strength, Opacity



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Model YR05499



Measuring Time	1.5s
Data Storage	1000 standards, 15000 samples
Data Port	USD&RS232
Dimension	90*77*230mm
Weight	600g
Battery	Li-ion Battery, 5000 measurements in 8 hours.
Operation Temperature	0~40°C(32~104°F)
Storage Temperature	-20~50°C(-4~122°F)
Standard Accessory	Power Adapter, Li-ion Battery, Operating Instruction, CD-ROM (containing management software), Data Line, White and Black Calibration Cavity, Protective Cover and Wrist Strap.
Optional Accessory	Universal Test Components, Micro Printer, Powder Test Box



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