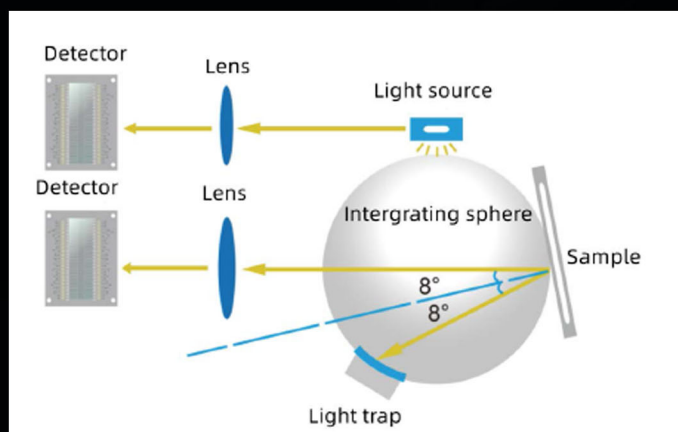


SPECTRO PHOTOMETER

DS200 SERIES

ULTRA-HIGH REPEATABILITY
ACCURACY: $\Delta E^*_{ab} \leq 0.02$

The dual optical path design monitors light source energy fluctuations while measuring the sample signal, reducing interference during measurement, obtaining higher measurement stability and improving the instrument's measurement repeatability index to $\Delta E^*_{ab} \leq 0.02$. This ensures the instrument, high standards of measurement speed, accuracy, stability and inter-stage difference consistency. The relevant technology is protected by a Chinese invention patent and a US invention patent.



INNOVATION IS THE SOUL OF CHNSPEC. AFTER NEARLY 10 YEARS OF DEDICATED RESEARCH, CHNSPEC HAS ADOPTED NANO-INTEGRATED OPTICS AS THE SPECTROSCOPIC DEVICE, WHICH CAN ACHIEVE NANO-LEVEL SPECTROSCOPIC CAPABILITY WITH ONLY 5 MICRON THICKNESS OF OPTICS, ONCE AGAIN LEADING THE DIRECTION OF INNOVATION IN THE INDUSTRY, CROSSING THE TECHNOLOGICAL BLOCKADE OF FOREIGN PRODUCTS AND GREATLY ENHANCING THE TECHNICAL PERFORMANCE OF THE PRODUCTS. THE RELEVANT TECHNOLOGY IS PROTECTED BY CHINESE INVENTION PATENTS.

PRODUCT FEATURES

(1) OVER 30 MEASUREMENT INDICATORS

- RGB, LAB, REFLECTANCE, LCH, HUNTER LAB, CIE-Luv, XYZ, Yxy
- DIFFERENCE (ΔE^*_{ab} , ΔE^*_{cmc} , ΔE^*_{94} , ΔE^*_{00})
- WI (ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, HUNTER, TAUBE BERGER STENSBY)
- YI (ASTM D1925, ASTM E313-00, ASTM E313-73)
- BLACKNESS (MY, DM), COLOR FASTNESS, TINT (ASTM E313-00)
- COLOR DENSITY CMYK (A, T, E, M), MILM, MUNSELL, OPACITY, COLOR STRENGTH



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SPECTRO PHOTOMETER

DS200 SERIES

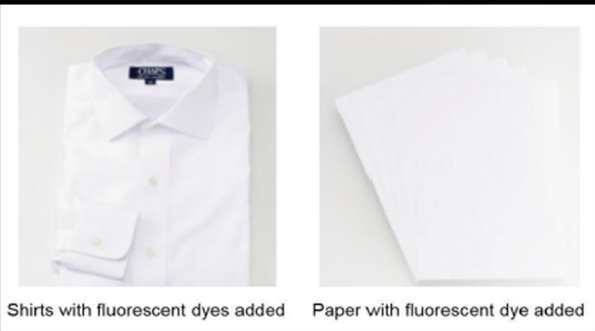
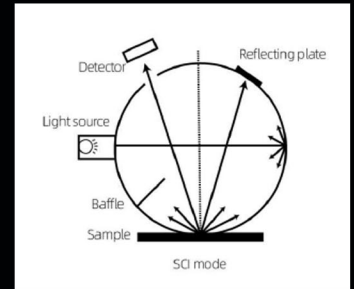
Evaluate whether the color is jumping light, and provide nearly 40 evaluation light sources

A, B, C, D50, D55, D65 and nearly 40 evaluation light sources can be selected, covering almost all the color measurement indicators and light source types in the industry.



Contains SCI measurement mode
SCI refers to specular reflections that are generally used to study the properties of a color itself without regard to the surface gloss of the sample to which it is attached.

Contains UV for fluorescent color measurement
DS-200 series colorimeter still provide stable and objective reflectivity data for color measurement on surfaces containing fluorescent materials



Shirts with fluorescent dyes added Paper with fluorescent dye added

Large caliber (Φ 11mm) Dial to "M".
Small caliber (Φ 6mm, Φ 3mm) Dial to the "S".

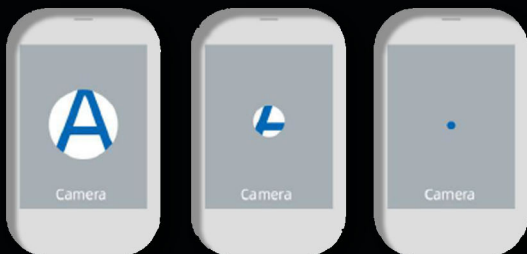
The DS-200 series supports 3 measuring apertures for selection (11mm, 6mm, 3mm)

Rotate to switch the caliber. Say goodbye to the tedious manual screw fixing method.

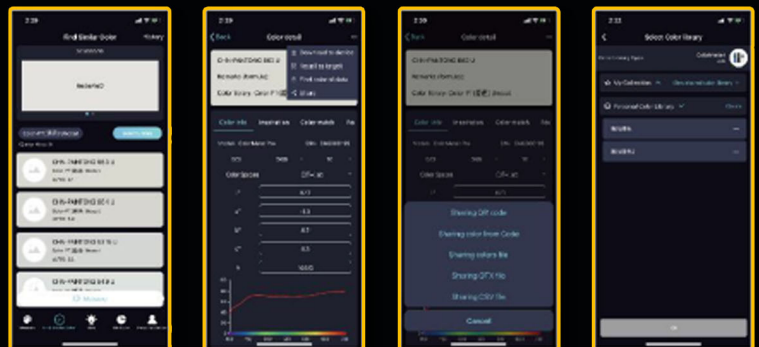


Caliber rotation switch

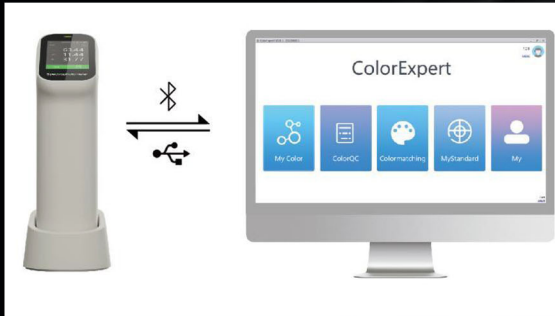
Caliber switching dial



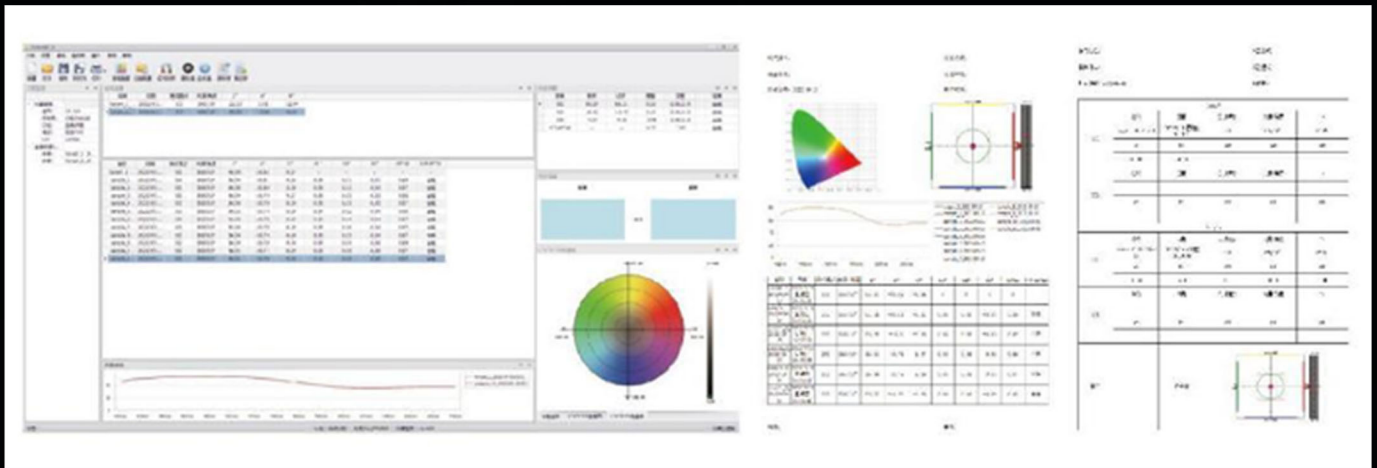
Support WeChat applet,
Android, Apple,
Hongmeng mobile APP



SPECTRO PHOTOMETER DS200 SERIES



Use the powerful PC-based colour management system ColorExpert



Introduction to Appearance Structure

Model	DS-200	DS-210	DS-220
Test condition	SCI	SCI	SCI
Repeatability	≤ 0.03	≤ 0.03	≤ 0.03
Aperture	1	2	3
UV light source	×	×	√
Camera function	×	√	√
Mobile App	√	√	√
PC software	√	√	√

Function difference



SPECTRO PHOTOMETER DS200 SERIES



Product model	DS-200	DS-210	DS-220
Measuring structure*	D/8, SCI		
Measurement repeatability**	$\Delta E^*ab \leq 0.03$		
Display accuracy	0.01		
Measuring aperture	$\Phi 6mm$	$\Phi 11mm, \Phi 6mm$	$\Phi 11mm, \Phi 6mm, \Phi 3mm$
Color Spaces and Indices	Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE Luv, XYZ, Yxy, RGB, Color difference($\Delta E^*ab, \Delta E^*cmc, \Delta E^*94, \Delta E^*00$), WI(ASTM E313-00, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger Stensby), YI(ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness(My,dM), Color Fastness		
Source condition	A, B, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, U35, DLF, NBF, TL83, TL84, ID50, ID65, LED-B1, LED-B2, LED-B3, LED-B4, LED-B5, LED-BH1, LED-RGB1, LED-V1, LED-V2		
Light source	LED		LED+UV
Measurement observation method	Visual	Camera	
Calibration	Auto calibration		
Software support	Andriod, IOS, Windows, Wechat app		
Guaranteed accuracy	Guaranteed measurement	Guaranteed first class measurement	
Observer	2°, 10°		
Integrating sphere diameter	40mm		
Standards	CIE No.15, GB/T 3978, GB 2893, GB/T 18833, ISO7724-1, ASTM E1164, DIN5033 Teil7		
Ways of spectral	Nano-integrated spectral devices		
Sensor	Silicon photodiode array Dual 16-group		
Wavelength interval	10nm		
Wavelength range	400-700nm		
Reflectance determination range	0-200%		
Reflectance resolution	0.01%		
Measurement method	Single measurement, average measurement (2 to 99 measurements)		
Measurement time	Approx. 1 second		
Interface	USB, Bluetooth		
Screen	Screen Full colour screen, 2.4		
Battery capacity	8000 continuous measurements on a single charge, 3.7V/3000mAh		
Life of light	10 years and 1 million cycles		
Language	Simplified Chinese, English		
Storage	Instrument :10,000 data ; APP: mass storage		