

DS-200/210/220

Product Features

Colorimeter

- Double optical path design improves repeatability accuracy dE * ab \leq 0.03
- 30+measuring indicators such as color difference, whiteness and yellowness.
- Provide nearly 40 evaluation light sources.
- Including UV, can be used for fluorescent color measurement.
- It is equipped with three measuring calibers without tools and can be replaced at any time.
- Built-in high-definition camera to clearly observe the tested area.
- Automatic calibration base ensures long-term stability of the instrument.
- Support WeChat applet, Android, Apple, and Hongmeng mobile app.
- Use the powerful PC-side color management system ColorExpert.

Technical Data

Name	DS-200	DS-210	DS-220
Geometry *	D/8, SCI		
Repeatability **	ΔE*ab≤ 0.03		
Display Resolution		0.01	
Measuring aperture	One: Ф6mm	Two: Φ11mm, Φ6mm	Three: Φ11mm, Φ6mm, Φ3mm
Measurement index	Reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE-Luv, XYZ, Yxy, RGB, Color difference(ΔE*ab, ΔE*cmc, ΔE*94, ΔE*00), WI(ASTM E513-00, ASTM E313-73, CIE, ISO2470/R457, AATCC, Hunter, TaubeBergerStensby), VI(ASTM D1925, ASTM E313-00, ASTM E313-73), Blackness (Wy, dM), Color Fastness, Tint, (ASTM E313-00, Color Density CMYK(A, T, E, M), Milm, Munsell, Opacity, Color strength		
Illuminants	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	Full-band balance	dLED light source	Full-band balancedLED light source+UV
Measurement and observation mode	Visual	(Camera
Calibration	Manual calibration	Intelligent automatic calibration	
Software support	Andriod, iOS, Windows, WeChat applet		
Accuracy	Qualified measurement	Metro	logy Level I
Observer Angles		2°, 10°	
Sphere Size	40mm		
Standards	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7		
Spectroscopic method	Nanometer integrated spectral device		
Sensor	Silicon photodiode array double 16 groups		
Wavelength Interval	10nm		
Wavelength Range	400-700nm		
Reflectance Range	0-200%		
Reflectivity resolution	0.01%		
Measurement method	Single measurement, average measurement (2~99 times)		
Measurement time	About 1 second		
Interface	USB, Bluetooth		
Screen	Full-color display, 2.4 inches		
Battery capacity	Rechargeable, 8000 times continuous tests, 3.7V/3000mAh		
Light Source Lifetime	10 years, 1 million tests		
Language	Chinese and English		
Storage	Instrument: 10000 pieces of data; APP: mass storage		

%45 degree circular illumination/0 degree angle reception %% When a white tile is measured 30 times at 5-seconds interval with MAV

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