Spectrophotometer

DC-23D/25D/26D

Product Features

- Excellent repetition accuracy dE*ab≤0.01, excellent inter-station difference dE*ab≤0.12

- Using a new generation of array silicon light sensor, the accuracy of indicating value is increased by 60%

- Standard BCRA green board calibration ensures consistent instrument accuracy

- Industry-leading wavelength range :360-780nm

- Xenon lamp and LED dual light source to provide more than expected service life

- Support NetProf network calibration function, can regularly check instrument performance

- 6 kinds of measuring apertures, minimum support 1*3mm

- Intelligent automatic calibration to ensure the long-term stability of the instrument

Technical Data

Model	DC-23D	DC-25D	DC-26D
NetProf network calibration	Support		
Measurement structure*	D/8,SCI+SCE		
Simultaneous measurement of SCI+SCE	Support		
Integrating sphere diameter	40mm		
Lighting source	Full band balanced LED light source + Xenon lamp		
Inductor	Dual-row high-precision CMOS array sensor		
Calibration mode	BCRA certified black and white board energy calibration, green board wavelength accuracy calibration		
Spectroscopic method	Grating		
Display accuracy	0.01		
Light source lifetime	6 million times	10 million times	
Wavelength range	360-740nm	360-780nm	
Wavelength interval	10nm		
Reflectance measurement range	0-200%		
Reflectance resolution	0.01%		
Caliber	Φ11mm,Φ6mm	Φ11mm,Φ10mm, Φ6mm,Φ3mm	Φ11mm,Φ10mm,Φ6mm, Φ5mm,Φ3mm,1mm*3mm
Measurement repeatability **	dE*ab≤0.02	dE*ab≤0.01	
The difference between stations is ***	dE*ab≤0.25	dE*ab≤0.2	dE*ab≤0.12
UV light source	Yes		
Field Angle	2°，10°		
Light source condition	A,B,C,D50,D55,D65,D75F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12CWF,U30,U35,DLF,NBF,TL83,TL84,ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4LED-B5,LED-BH1,LED-RGB1,LED-V1,LED-V2		
Measurement index	Spectral reflectance, Cle-LAB, CIE-LCH,HunterLab, CIE-LUv,XYZ,Yxy,RGB chromatic aberration (ΔE*ab,ΔE*cmc,ΔE*94,ΔE*00), whiteness (ASTM E313-00,ASTM E313-73,CIE,ISO2470 /R457, AATCC,Hunter,Taube BergerStensby), yellowness (ASTM D1925,ASTM E313-00,ASTM E313-73) Blackness (My,dM), color fastness, colorchange fastness,Tint(ASTM E313-00) Color density CMYK (A,T,E,M),isochromatic indexMilm, Munsell, Mask Cap power, force(dye strength, coloring power)		
Measuring time	About 1s		
Store	Instruments: 10000 pieces; APP: Mass storage		
Battery capacity	8000 continuous measurements with a single charge, 7.2V/3000mAh		
Measurement and observation mode	Camera		
Screen	Full color screen, 3.5 inches		
Language	Simplified Chinese, English		
Port	USB, Bluetooth		
Calibrate	Intelligent automatic calibration		
Software support	Android,iOS,Windows, wechat mini program		
Accuracy guarantee	Ensure the first level of measurement		
Meet the standard	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7		
Dimension	233mm*77mm*93mm		
Weight	About 600g		

* Diffuse illumination /8° direction reception, including specular reflected light/removal of specular reflected light

** After calibration of the whiteboard, measure the whiteboard 30 times at 5-second intervals and measure the standard deviation of the result with MAV caliber

*** Average measurement value of MAV caliber of 12 color plates in BCRA series