

Sideward Spectrophotometer



CS-801

Product Advantages

D/8 geometry, Simultaneous SCI/SCE measurement

Adopt international D/8 geometry (Integrating sphere diffused illumination, 8 degree viewing)
Simultaneous measurement of SCI/SCE compatible with lighting observation conditions.

Sideward Caliber for Color Measurement

With sideward testing caliber, it is suitable for fix the samples. Solid sample (cloth) can be placed directly on the testing caliber. Powder material and pasty material need to be held by cuvette and then put on the testing caliber. Sideward testing caliber can prevent the scattered powder into the integrating sphere, affecting the test accuracy.

Flexible Fixture

Samples with different thickness and sizes can be fixed on the testing caliber to in case of light entering into the instrument to affect the testing accuracy.

Application Examples



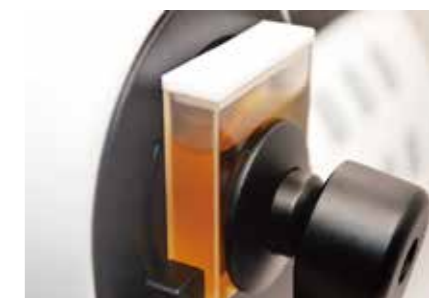
▲ Open the fixture



▲ Tablets made by powder



▲ Paper



▲ Solvent

Technical Data

Type	CS-801	Color Difference Formula	$\Delta E^*ab, \Delta E^*CH, \Delta E^*uv, \Delta E^*cmc(2:1), \Delta E^*cmc(1:1), \Delta E^*94, \Delta E^*00, Eab(Hunter), 555$ shade sort
Illumination /Viewing System	Illuminant: d/8 (diffused illumination, 8 degree viewing) Simultaneous measurement of SCI (Specular Component Included) /SCE (Specular Component Excluded)(conforms to CIE No.15, ISO7724/1, ASTM E1164, DIN5033 Teil 7, JIS Z8722, Condition c standard)	Other Indicators	WI(ASTM E313-10, ASTM E313-73, CIE/ISO, AATCC, Hunter, Taube Berger, Ganz, Stensby), YI(ASTM D1925, ASTM E313-10, ASTM E313-73), Tint(ASTM E313, CIE, Ganz), Metamerism index Milm, staining fastness, color fastness, ISO brightness, 8 Glossiness, A Density, T Density, E Density, M Density
Integrating Sphere	40mm, Avian-D Fully diffuse reflective surface coating	Repeatability	Reflectance: standard deviation within 0.08% Chromaticity value: Standard deviation within ΔE^*ab 0.015 (When a white calibration plate is measured 30 x at 5-second intervals after white calibration), max. 0.03
Illumination	CLEDs	Inter-instrument agreement	Within ΔE^*ab 0.2 (BCRA Series II, average measurement of 12 color charts)
Detector	Dual optical sensor array	Battery Power	Chargeable, 20000 continuous tests, 7.4V/6000mAh
Wavelength	400-700nm	Interface	USB
Wavelength Pitch	10nm	Light source lifetime	10years, 3 million tests
Half Band Width	5nm	Working Temperature	0-45°C, relative humidity 80% or below (at 35°C); no condensation
Reflectance Range/Resolution	0-200% 0.01%	Accessories	AC power line, operating manual, color QC software, driving software, electric operating manual, USB cable, white/black calibration tile, verification certification Optional: powder presser, cuvette, cover
Light Source	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30,DLF,NBF,TL83,TL84	Color Matching Software	Workable
Display	Reflectance graph/value, chromaticity value, color difference values, color assessment results, color tendency, display measurement area, history color value simulation, manual input standard sample, generate measurement reports	UV Light Source	Without
Measurement Interval	1s		
Measurement Caliber	Φ11mm		
Color Space	CIE-L*a*b,L*C*h,L*u*v, XYZ, Yxy, Reflectance, Hunterlab, Munsell MI, CMYK, RGB, HSB		