Top-port Spectrophotometer



Product Advantages

The First Bench-top Spectrophotometer in China

CS-800 is the first bench-top spectrophotometer in China to make up for the corresponding domestic market vacancies. Over the years, its accuracy and performance make great improvement, and now has a huge market.

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.

Top-port Caliber for Color Measurement



Adopt geometric conditions of D/8 illumination and viewing with upward testing caliber which is easier for testing all kinds of samples. Solid samples (steel, cloth) can be placed directly on the measurement caliber, particles (tablets, master batch), powder (Calcium Carbonate, pigment, coffee), paste objects (tomato sauce) can be placed in a cuvette, then placed in the caliber.

Application Examples











Paste



Pelle

Technical Data

Туре	CS-800	Color Difference	ΔΕ*ab,ΔΕ*CH,ΔΕ*uv,ΔΕ*cmc(2:1),ΔΕ*cmc(1:1),ΔΕ*94,
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)	Formula Other Indicators	ΔE*00,Eab(Hunter),555Color classification WI(ASTM E313-10,ASTM E313-73,CIE/ISO,AATCC,Hunte Taube Berger,Ganz,Stensby),YI(ASTM D1925,ASTM E313-1 ASTM E313-73),Tint(ASTM E313,CIE,Ganz),Metamerism ind Milm, staining fastness, color fastness, ISO brightness 8 Glossiness,A Density,T Density,E Density,M Density
Integrating Sphere Illumination		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
Detector Wavelength	Dual optical sensor array 400-700nm	Inter-instrument agreement	Within ΔE^* ab 0.2 (BCRA Series II, average measurement of 12 color charts)
Wavelength Pitch	10nm	Battery Power	recharageable, 20000 continuous tests, 7.4V/6000mAh
Half Band Width Reflectance	<u>5nm</u>	Interface	USB
Range/ Resolution	0-200% 0.01%	Light source lifetime	10years, 3 million tests
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	Working Temperature	0-45°C,relative humidity 80% or below (at 35°C); no condensation
Display	Reflectance graph/value, chromatic value, color difference values, color assessment results, color tendency, display measurement area, history color value simulation, manual input standard sample, generate measurement reports	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 with diameter 29mm, covered to the control of t
/leasurement Interval	<u>1s</u>	Color Matching Software	Workable
leasurement Caliber	Ф11mm	UV Light Source	Without
Color Space	CIE-L*a*b,L*C*h,L*u*v, XYZ, Yxy, Reflectance, Hunterlab, Munsell MI, CMYK, RGB,HSB	Source	yvitilout

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