

Bench-top Spectrophotometer



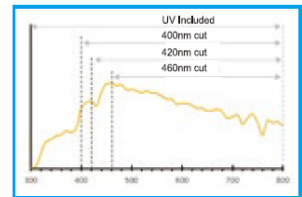
CS-820N

Instrument Advantages

- ☑ Inter-Instrument Agreement: $dE < 0.15$ (XLAV aperture)
- ☑ It has two kinds of light sources: pulsed xenon and LED lamps.
- ☑ 24 standard light sources, 40 measurement standards.
- ☑ Temperature and Humidity Compensation Function.
- ☑ Double optical path spectrum analysis technology.
- ☑ Simultaneous rapid measurement of SCI + SCE



4 kinds of apertures, instrument can automatically recognize and adjust light path.



4 kinds of UV test modes.



Camera to view the measurement area.



Innovative design of fixture for both stable clamping and protection of the instrument.



Unique multifunction transmittance fixture design.



Perfect combination of accessories and instrument body, convenient for protection and storage.



Instrument is with 7.0 inches TFT touch display screen with good human-computer interface.



Intelligent instrument software, support operation without PC.



Open measurement area, no limit on sample size.



Different kinds of standard accessories and optional accessories to meet the measurement requirements of different materials.

Technical Data

[More details](#)

[please contact us](#)

Illumination/ Viewing System	Reflection: d/8(Diffused illumination, 8 degree viewing) Simultaneous measurement of SCI/SCE (ISO7724/1, CIE No.15, ASTM E1164, DIN5033 Teil7, JIS Z8722 Condition C standard)Transmittance d/0(Diffused illumination, 0 degree viewing)	Color Difference	ΔE^*ab , ΔE^*CH , ΔE^*uv , ΔE^*cmc , ΔE^*94 , ΔE^*00 , ΔE^*ab (hunter), 555 shade sor
Sphere Diameter	152mm	Other Indices	WI(ASTM E313-00,ASTM E313-73,CIE/ISO, AATCC, Hunter, Taube Berger, Stensby)YI(ASTM D1925,ASTM E313-00,ASTM E313-73),Tint(ASTM E313-00,CIE, Ganz),Metamerism index milm, stain fastness, color fastness, ISO brightness, R457, A density, T density, E density, M Density, APHA/Pt-Co/Hazen, Gardner, Saybolt,ASTM color, Haze, Total Transmittance, Opacity, Color Strength
Wavelength	360-780nm	Language	Chinese Simplified, English, Chinese Traditional, Russian, Spanish, Portuguese, Japanese, Thai, Korean, German, French, Polish
Wavelength Pitch	10nm	Storage Memory	8GB
Reflectance Range	0-200%	Screen Size	7 Inches Touch Screen
Resolution	0,01%	Power	12V/3A
Light Source	Pulse Xenon Lamp+LED	Operate Temperature	5-40°C(40-104F), relative humidity 80% (at 35°C) no condensation
UV Measurement	Include UV, 400nm cut, 420nm cut, 460nm cut	Storage Temperature	-20-45°C(-4-113F), relative humidity 80% (at 35°C) no condensation
Measurement Time	SCI/SCE < 2s SCI+SCE < 4s	Accessories	Power Adaptor, USB Cable, Transmittance Fixture, USB Disk, Black Cavity, White Tile, Green Tile, 0% Calibration Cover, 30mm Aperture, 18 mm Aperture, 11 mm Aperture, 6 mm Aperture, Support, Glass Cell, Sample Fixture
Transmittance Sample Size	No limit on sample width and height, thickness ≤50mm	Optional Accessories	Transmittance Heating Fixture, Vertical Support, Pneumatic ram, Small Sample Fixture, Reflectance Glass Cell Support, Corrosion Resistant Support, Fiber Holder, Film Fixture, Transmittance Fixture for Small Aperture, Trolley Case, European Standard Plug, American Standard Plug
Inter-Instrument Agreement	XLAV ΔE^*ab 0.15 (BCRA Series II, Average measurement of 12 tiles, at 23°C)	Interface	RS-232、USB、USB-B
Measurement Aperture	Reflectance: XLAV Φ 25.4mm/ Φ 30mm, LAV Φ 15mm/18mm, MAV Φ 8mm/ Φ 11mm, SAV Φ 3mm/ Φ 6mm (Aperture size can be custom made) Auto aperture size recognition Transmittance: Φ 17mm/ Φ 25mm	Instrument Size	465x240x260mm
Viewing Angles	2° and 10°	Weight	10.8kg
Repeatability	XLAV Spectrum Reflectance/Transmittance: standard deviation within 0.1%XLAV 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		
Color Spaces	L*a*b, L*C*h, Hunter Lab, Yxy, XYZ		
Illuminants	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9, F10,F11,F12,CWF,U30,DLF,NBF,TL83,TL84		
Display	Reflectance and Transmittance graph/value, color value, color difference values, pass/fail, olor simulation, color assessment, haze, liquid chromaticity values, color tendency		