Bench-top Spectrophotometer







CS-820N

Product Features

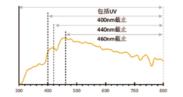
- Inter-Instrument Agreement:dE<0.15 (XLAV aperture)
- Provides Pulse Xenon and LED Two Kinds of
- 24 standard light sources, 40 measurement standards
- Temperature and Humidity Auto Compensation
- Simultaneous reflectance/transmittance measurement
- Double optical path spectrum analysis technology
- Simultaneous SCI/SCE measurement



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



Camera to view the measurement



4 kinds of UV test modes.



both stable clamping and protection of the instrument.



Unique multifunction transmittance fixture design.



Intelligent instrument software, support operation wihtout PC.



Perfect combination of accessories and instrument body, convenient



on sample size.







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



measure different kinds of samples.

Technical Data

	Reflection: d/8(Diffused illumination, 8 degree viewing) Simultaneous measurement of SCI/SCE (ISO7724/1,		Δ E*ab, Δ E*CH, Δ E*uv, Δ E*cmc, Δ E*94, Δ E*00, Δ E*ab(hunter),555 shade sor
Illumination/ Viewing System	CIE No.15, ASTM E1164, DIN5033 Teil7, JIS Z8722 Condition C standard)Transmittance d/0(Diffused illumination, 0 degree viewing)	Other	WI(ASTM E313-00,ASTM E313-73,CIE/ISO, AATCC,Hunter, Taube Berger, Stensby)YI(ASTM D1925,ASTME313-00,ASTM E313-73),Tint(ASTM E313-00,CIE,Ganz),Metamerism index
Sphere Diameter	152mm	Indices	milm, stain fastness, color fastness, ISO brightness, R457, A density, T density, E density, M Density, APHA/Pt-Co/Hazen,
Wavelength	360-780nm		Gardner, Saybolt, ASTM color, Haze, Total Transmittance,
Wavelength Pitch	10nm		Opacity, Color Strength
Reflectance Range	0-200%	Language	English, Russian, Spanish, Portuguese, Japanese, Thai, Korean,
Resolution	0.01%		German, French, Polish, Chinese (simple and traditional)
Light Source	Pulse Xenon Lamp and LED	Storage Memory	8GB
UV Measurement	Include UV, 400nm cut, 420nm cut, 460nm cut	Screen Size	7 Inches Touch Screen
Measurement		Power	DC stabilized power supply
Time	SCI+SCE < 4s	Operate	5-40 °C (40-104F), relative humidity 80% (at 35 °C)
Transmittance		Temperature	no condensation
Sample Size	No limit on sample width and height, thickness ≤50mm	Storage	-20-45 C (-4-113F), relative humidity 80% (at 35 C)
Inter-Instrument	XLAV ΔE*ab 0.15 (BCRA Series II, Average	Temperature	no condensation
Agreement	measurement of 12 tiles, at 23 °C)		Power Adaptor, USB Cable, fixture for transmittance, U disk
Measurement	Reflectance: XLAV Φ25.4mm/Φ30mm, LAVΦ15mm/18mm,MAVΦ8mm/Φ11mm,SAVΦ3mm/Φ 6mm (Aperture size can be custom	Accessories	(PC software), Black Calibration Cavity, White and Green Calibration Tile,0% Calibration Tile (transmittance), 30mm,18mm, 11mm and 6mm apertures, Reflectance Test Support, Glass Cell 40x10mm,reflectance sample fixture
Aperture	made) Auto aperture size recognition		Heating Fixture for Transmittance, Vertical Support and
	Transmittance:Ф17mm/Ф25mm	Optional	Pneumatic ram for downward measurement, Reflectance
Viewing Angles	2° and 10°	Accessories	fixture for small size sample, Reflectance Glass Cell Support,
	XLAV Spectrum Reflectance/Transmittance: standard		Corrosion-Resistant Protective Plate (non-removable),
			Sample Holder for Eiber Film Eixture Transmittance Eixture

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

Reflectance and Transmittance graph/value, color

value, color difference values, pass/fail, olor simulation, color assessment, haze, liquid chromaticity values,

Fransmittance, Vertical Support and lownward measurement, Reflectance sample, Reflectance Glass Cell Support, Corrosion-Resistant Protective Plate (non-removable), Sample Holder for Fiber, Film Fixture, Transmittance Fixture for Small Aperture, Trolley Case, European Standard Plug, American Standard Plug

Interface RS-232, USB-A, USB-B Instrument Size 465 x 240 x 260mm

Camera to view measurement area; 2. Support horizontal, vertical and downward measurement method (need optional accessories to support for downward

3. Auto humidity and temperature compensation function.

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Repeatability

Display

calibration

color tendency

Color Spaces L*a*b、L*C*h、Hunter Lab、Yxy、XYZ、RGB

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