High Accuracy Bench-top Spectrophotometer







CS-820P

CS-821N

CS-826

CS-820P/821N/826

Product Features

- Automatic calibration
- High stability UV light source, providing stable fluorescence measurement result
- Excellent repeatability when measuring on black samples
- Excellent consistency with other competing products made in United States, Japan, and Europe
- Excellent long-term repeatability, even after rapid changes in the environment can still guarantee excellent repeatability

- 24 kinds of illuminants and more than 40 measurement indices
- Temperature and humidity compensation function
- Seven -inch touch screen, Android operate system
- Dual optical paths spectrum analysis technology
- Support SCI+SCE simultaneous rapid measurement
- It has two lamps: pulsed xenon and LED

Technical Data

Name	CS-820P	CS-821N	CS-826
Lighting/light receiving system Compli	SCI(including specular reflected	° direction reception), transmission :d/ 0 (diffuse lig ed light)/SCE(not including specular reflected light) 893,GB/T 18833,ISO7724/1,DIN5033 Teil7,JIS Z8:	measurement at the same time;
Sensor	Silicon photodiode array	Dual-row high preci	sion CMOS array sensor
Light splitting method		Concave grating	
Integrating sphere diame	eter	152mm	
Wavelength range		360nm-780nm	
Wavelength interval		10nm	
Half wave width	5nm		1.6nm
Reflectance measurement r	ange	0-200%, resolution 0.01%	
Lighting source	Pulsed xenon lamps and LEDs		
UV measurement	Including UV, 400nm cutoff, 420nm cutoff, 460nm cutoff		
Measure time	Single mode<2s		
Measurement/ Illumination Aperture	Reflection: XLAV Φ25.4mm/Φ30mm, LAVΦ15mm/Φ18mm, MAVΦ8mm/Φ11mm, SAVΦ3mm/Φ6mm Users can customize the caliber, automatic identification of caliber switching Transmission: Φ17mm/Φ25mm		
Transmission measure- ment specification	Sample h	eight and thickness: unlimited height, thickne	ess ≤ 50mm
Long-term repeatability	1	XLAV chromaticity value: stand (Any temperature change at 20°C±10°C, measure	dard deviation ΔE*ab within 0.015 the white calibration plate every hour within 24
Repeatability* Spectra	ΔE*ab≤0.02, al reflectance/transmittance≤0.1%	ΔE*ab≤0.015, Spectral reflectance/transmittance≤0.1%	ΔE*ab≤0.01, Spectral reflectance/transmittance≤0
Inter-instrument ** agreement	XLAV ΔE*ab 0.25 XLAV ΔE*ab 0.2		
Standard observer	2°	Standard Observer and 10° Standard Obse	erver
Light source		A,B,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,CWF,U30,U35,DLF,NBF,TL83,TL84, ID50,ID65,LED-B1,LED-B2,LED-B3,LED-B4,LED-B5,LED-BH1,LED-RGB1,LED-V1,LED-V2	
Language Simplifi	ed Chinese, English, Traditional Cl	hinese, Russian, Spanish, Portuguese, Japan	ese, Thai, Korean, German, French, Pol
Display content		Spectral data, spectral graph, chromaticity data, color difference data, color difference graph, pass/fail judgment, simulated color, color evaluation, haze, liquid chromaticity, color bias	
Color space	CIE LAE	3,CIE LUV,LCh,Hunter Lab,Yxy,XYZ,Musell,s	s-RGB,βxy
	I (ASTM E313-20, ASTM E313-73, CIE, ISO2470/R457, AATCC, Hunter, Taube, Berger Stensby), YI (ASTM D1925, ASTM E313-20, ASTM E313-20, Tint (ASTM E313-20), metamerism index Milm, staining fastness, color fastness, ISO brightness, R457, A density, T density, E density, M density, APHA/Hazen/Pt-Co (platinum cobalt index),Gardner (Gardner index), Saybolt (Saybolt index), Astm color, haze total transmittance, hiding power, strength, strength		
Chromatic aberration formul	a Δ E*ab, Δ E*CH, Δ E*	*uv, ΔE*cmc, ΔE*94, ΔE*00, ΔEab(Hunter), 5	555 color classification
Storage	8GB		
Screen size	7 inch capacitive touch screen		
Operation system	Android		
Power supply	DC regulated power supply		
Operating temperature and hi	umidity range 5∼40°C	relative humidity below 80% (at 35°C), no co	ondensation
Storage temperature and hun	, ,	c, relative humidity below 80% (at 35°C), no o	
· .	adapter, data cable, transmission fixtu	ure, USB flash disk, Black cavity, white board, gree re ,11 mm aperture ,6 mm aperture , support table,	n board,0% calibration Visor cover (with 820)
Optional accessories	Heating transmission fixture (including control circuit), vertical bracket, pneumatic jacking rod (including control circuit), small sample holding accessories, reflection cubed bracket corrosion resistant plate (not removable), fiber test box, film fixture, trace transmission fixture, rod box, European standard plug, American standard plug		
Interface		RS-232 \ USB \ USB-B	prog, otalidala piug
	Camera framing and positioning;		

3. Automatic temperature and humidity compensation function

X After the instrument is calibrated, measure the white calibration plate 30 times at intervals o 5 seconds and measure the standard deviation of the results with the XLAV caliber XX At 23°C, measure the average value of XLAV diameter measured by BCRA Series 12 swatches.