CS-580

- Obtained China Metrology Accreditation Certificate
- Large data storage space
- Large TFT display screen
- Modern and fashionable design based on human engineering
- Easy to use operation modes and compact operation interface
- Pre-locating panel design for easy instrument calibration
- Uses LED light source; high capacity rechargeable lithium-ion battery
- Can measure both SCI(specular included)and SCE(specular excluded) at the same time
- Includes PC software to manage data
- Can connect to mini-printers for printing

Product Overview

- High performance-price ratio among international similar products
- As China's spectrophotometer, integrates multiple innovative technical characteristic, and extends the boundary of on-site color quality control during production.
- It can be applied to laboratories, factories and on-site operations, and can achieve the best color management across all application fields'quality control;
- Allows medium and small companies to obtain high performance color management system with relatively low price;
- The software contains all necessary color equations, standard light sources, and a large number of standards for specific industries and applications;
- Operation system supports both English and Chinese interfaces, and we offer to design the interface in other languages based on the need of our customers.

Professional design, powerful instrument functions

- Professional horizontal design and it does not have any moving parts, which avoids the shaking of the instrument during measurement process. This makes the measurement more accurate;
- PC software for easy measurement data management;
- Can measure both SCI and SCE at the same time.
- Large data storage space: can store up to 100 sets of standard samples, with up to 200 measurement records for each standard sample;
- Adding powder test accessories, easily measure the color of the Powder, granules and other samples.

Specifications

Type	CS-580
Illumination	d/8(Diffused lighting, 8 degrees observe angle)

	SCS optical engi... e calibration
	technology), SCI(specular reflection included)/SCE(specular reflection excluded)
	simultaneous measurement。
	(conform to CIE No.15、ISO 7724/1、ASTM E1164、DIN 5033 Teil7、JIS Z8722 Condition c standards)
Size of integrating sphere	Φ40mm, Alvan diffused reflection surface coating
Illumination Light source	CLEDs(entire wavelength balanced LED light source)
Sensor	blue light enhanced sensor array
Wavelength range	400-700nm
Wavelength interval	10nm
Half spectral width	5nm
Reflectivity range	0-200%
Reflectivity resolution	0.01%
Observation angle	2°/10°
Measurement 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
Data being displayed	SPD distribution/data, sample's color values, color difference values/graph, pass/fail results,
	color error tendency, color simulation, display measurement area, history data color simulation, manual input standard sample, generate measurement report
Measurement time interval	2 seconds
Measurement time	1 second
measuring aperture	Φ8mm
Color space	CIE-L*a*b, L*C*h, L*u*v, XYZ, Yxy, Reflectance
Color difference formulas	ΔE*ab, ΔE*CH, ΔE*uv, ΔE*cmc(2:1), ΔE*cmc(1:1),ΔE*94,ΔE*00
Other colorimetric indices	WI(ASTM E313-10,ASTM E313-73,CIE/ISO, AATCC, Hunter, Taube Berger,
	Ganz, Stensby),
	YI(ASTM D1925, ASTM E313-00,ASTM E313-73),
	Tint(ASTM E313,CIE,Ganz),
	Metamerism index Milm, Stick color fastness, Color fastness
Repeatability	light splitting reflectivity：standard deviation within 0.08%

	color values： ΔE*ab<=0.03(After calibration, standard deviation of 30 measurements on
	test white board,
	5 second intervals),Maximum：0.05
Battery capacity	rechargeable, 10000 continuous tests, 7.4V/6000mAh
Interface	USB
Data storage	20000 test results
Light source longevity	5 years, 1.5 million tests
Inter-instrument agreement	ΔE*ab within 0.2(BCRA color charts II, average of the 12 charts)
Size	181*73*112mm(L*W*H)
Weight	about 550g(does not include battery's weight)
Display	True color screen that includes all colors
Work temperature range	0~45℃, relative humidity 80% or below(at 35℃),no condensation
Storage temperature range	-25℃ to 55℃, relative humidity 80% or below(at 35℃),no condensation
Standard accessories	DC adapter, Lithium battery, manual, color management software, d
	rive software, electronic manual, color management guide, USB cable, black/white
	calibration tube,protective cover, spire lamella, portable bag,
	electronic color charts
Optional accessories	powder molding device, micro printer, measurement and test report
Color matching system	not match
UV light source	Does not include UV light source