

CS-580/600/650/660

Product Features



SCS optical engine

Adopt innovative light splitting system SCS optical engine which creates the best measurement repeatability for portable spectrophotometers, and guarantees accurate measurement of materials surface color.

Adopt CLEDs light source – spectrally balanced LED light source

LED light source has balanced intensity across

visible spectrum avoids the spectral deficiency

in certain parts of the spectrum in common

white LEDs, which guarantees the speed and

accuracy of the measurement results. This

research has been published in national

leading optical journal Chinese Optics Letter.



Camera to see the measurement area

In previous spectrophotometer, we can only aim at the testing area approximately, and it may introduce errors. Our new spectrophotometer includes a camera, so the user can clearly see the measurement area to avoid measurement errors.



+ Pt Color Number Matching

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16-1253 TCX				
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To improve the utility and convenience of our instrument, we develop spectrophotometer with build-in PT colors watches.After measurement,instrument can help us find three similar colors from the color swatches which can greatly improves working efficiency.

Technical Data

Model	CS-580			CS-600	
Illumination/Viewing System	Observer : 2°/10° d/8(Diffused illumination, 8 degree viewing) , simultane SCE(specular component excluded) (conform to CIE N Condition C standards)				
Integrating Sphere	Φ40mm,Avian diffused reflection surface coating				
Light source	CLEDs				
Sensor	dual light path sensor array				
Wavelength Range	400-700nm				
Wavelength Pitch	10nm				
Half Band Width	5nm				
Reflectance Range	0-200%				
Resolution	Reflectance 0.01%				
Illuminants	A,C,D50,D55,D65,D75,F1,F2,F3,F4,F5,F6,F7,F8,F9,F				
Display	Reflectance graph/value, chromaticity value, color diff color simulation, history data, color simulation, manual				
Measurement time	2s		0.5s		
Measurement Interval	about 2s				
Color Spaces	CIE-L*a*b, L*C*h, L*u*v, XYZ, Yxy, Reflectance	CIE-L	*a*b, L*C*h	ı, L*u*v, XY	
Color Difference	ΔE*ab, ΔE*CH, ΔE*uv, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*94,ΔE*00	ΔE*ab, ΔE*CH, ΔE*uv, ΔE*			
Other Indices	WI(ASTM E313-10,ASTM E313-73,CIE/ISO, AATCC, E313-73),Tint(ASTM E313,CIE,Ganz);Metamerism Index				
		ISO B	rightness, 8	3°Gloss, A	
	Reflectance: standard de	eviation	within 0.08	%	
Repeatability	Chromaticity value: ΔE*ab 0.03 (when a white calibration plate is measured 30 a at 5-second intervals after white calibration (max.0.05)				
Inter-Instrument agreement	ΔE*ab within 0.2(BCRA Series II, average measureme				
Battery	rechargeable, 10000 continuous tests, 7.4V/6000mAh				
Interface	USB				
Data Storage	20000 test results				
Light Source Lifetime	5 years, 1.5 million tests				
Size	181*73*112mm(L*W*H)				
Weight	about 550g(without battery)				
Screen	2.8 inches color screen				
Working Temperature	$0 \sim 45$ °C, relative humidity 80% or below(at 35°C),no of $0 \sim 15$ °C ~ 15 °C ~ 100 °C ~ 1				
Storage Temperature	-25 C to 55 C, relative humidity 80% or below(at 35°C				
Standard Accessories	Power Adapter, Lithium Battery, Operate Manual, colo calibration tile, tile protective cover, carrying bag, elec				
Optional Accessories	powder molding device, micro printer				
UV light source	without				
Aperture Size	10mm/4mm/6mm (one instrument with one aperture)				

Portable Spectrophotometer

0	CS-650	CS-660				
neous measurement of SCI(specular component included)/ No.15,ISO 7724/1,ASTM E1164,DIN 5033 Teil7, JIS Z8722						
	Pulse Xenon Lamp	CLEDs				
	360-740nm	400-700nm				
,F10,F11,F12,	CWF, U30,DLF, NBF,TL83	3,TL84,U35				
	s, pass/fail results, color te et value, generate test repo					
	about 2s	0.5s				
YZ, Yxy, Refl	ectance,Hunter-lab, Munse	I MI,CMYK, RGB,HSB				
*cmc(2:1), ΔE*cmc(1:1),ΔE*94,ΔE*00, ΔE*ab (Hunter),555 color shade , Hunter, Taube Berger, Stensby),YI(ASTM D1925,ASTM E313-00,ASTM Milm, Staining Fastness, Color Fastness,opacity, DS Wavelength,color strength						
A density, T de	ensity, M density, E density					
en X on,	Chromaticity value: ∆ 0.02 (when a white cal plate is measured 30 x 5-second intervals after calibration,(max.0.04)	ibration at 0.015 (when a white calib- ration plate is measured 30				
nent of 12 tiles	3)					
h						
condensation						
C),no conden						
lor QC software, driver software, color USB cable, black/white ctronic color charts, verification certification						
	with	without				
1						