CS-600C/CS-600CG

CS-600C/CS-600CG spectrophotometer is a small lightweight portable 45/0 geometry color measuring instrument, CS-600CG can also measure 60° gloss. 45/0 geometry is the most consistent with the visual perceptual color value, which can completely eliminate the specular light on the surface of the texture, and the built-in gloss sensor can accurately measure the gloss of the surface. It is suitable for the color and gloss measurement of automotive interior parts, textiles, coil coatings, plastic products, road traffic representations, packaging and raw materials.

Product Characteristics

Brand name	CHNSpec	
Model Number	CS-600C	CS-600CG
Function	Color	Color, 60° Luster
Geometry	45/0(45 ring-shaped illumination,0 observe degree)	
Aperture	11mm	
Wavelength	400-700nm	
Wavelength interval	10nm	
Sensor	High sensitivity silicon photodiode	
Illumination	LED	
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	
Inter-instrument agreement	ΔE*ab within 0.2(BCRA color charts II, average of the 12 charts)	
Language	English, Chinese	
Observer	2°/ 10°	
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.U35	
Color space	CIE-L*a*b, L*C*h, L*u*v, XYZ, Yxy, Reflectance	
	Hunterlab,Munsell MI,CMYK,RGB,HSB	

Index	WI(ASTM E313-10,ASTM Ganz, Stensby) ; YI(ASTM D1925, ASTM E313-00,ASTM E313-73) ; Tint(ASTM E313,CIE,Ganz)	
	Metamerism index Milm, Stick color fastness, Color fastness	
	ISO luminance, 8 gloss, A density, T density, M density, E density	
Color Difference	ΔE*ab,ΔE*CH,ΔE*uv,ΔE*cmc(2:1),ΔE*cmc(1:1),ΔE*94,ΔE*00,ΔEab(Hunter),555 shade sort	
Color Space	CIE-15-2004 ; ASTM-D523 ; ASTM-D2244 ; ASTM D2457	
Test Angle		60°
Test Area		5×10 mm
Test Range		0 – 1000 GU
Repeatability		0.2GU(0-100GU)
		0.2%(100-1000GU)
Reproducibility		1.0 GU(0-100GU)
		1.0%(100-1000GU)
Illumination Life Time	10 years 3 million test	
Language	English, Chinese	
Data storage	20000 test results	
Interface	USB	
Screen	2.8 inch color screen	
Battery capacity	rechargeable, 10000 continuous tests, 7.4V/6000mAh	
Work temperature range	0~45°C, relative humidity 80% or below(at 35°C),no condensation	
Size	181*73*112mm(L*W*H)	
Weight	about 800g(does not include battery's weight)	
Standard accessories	AC adapter, lithium battery, manual, color management software, driver software, manual electronic version, color Management tutorial, data cable, black and white correction tube, portable bag	
		Gloss Calibration Tile
Optional accessories	Measurement Area Locator	

Parameters

1. Instrument Introduction
1).Instrument adopts 45/0 geometry (45 ring-shaped illumination, 0 degree viewing)
The innovative ring-shaped illumination system eliminates the direction dependence, regardless of changing the sample position, the tilt sample or the rotating instrument can achieve the high accuracy and the repeatability, will reduce the influence which the grain brings to the lowest.

The measurement on the surface of abras
advantages.

45°/0 structure schematic diagram
2).Compatible with 60 Degree Gloss Measurement (CS-600CG)
The instrument is with a high precise gloss measuring sensor that enables simultaneous measurement of gloss and color.

3). Comply with International Measurement Standards
The instrument complies with all the color measurement standards of CIE, ISO, ASTM, DIN and achieves the international leading level.

4).Color QC Software
Our spectrophotometer comes with free PC color QC software, which is applicable in various industries for management of color value. It is used for store test result, generate test report and print test report after connect with printer.

5). Every Instrument is with Verification Certification
Each instrument will be sent to the authority of the verification department to carry out metrological verification, measuring data traceability to the National Institute of Metrology, to ensure the authority of instrument test data.

6).Longest Device Guarantee Time

a. One Year Guarantee Time.
b. If testing data is not correct, we can do refund.
c. We will provide testing report for every device to assure the authority of the data and it will save the calibration cost for 1 year.