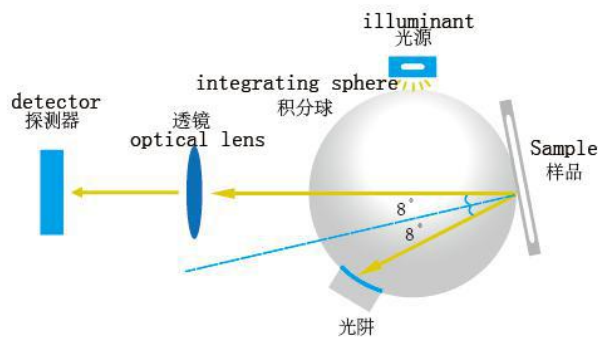


Spectrophotometer XZB-C650



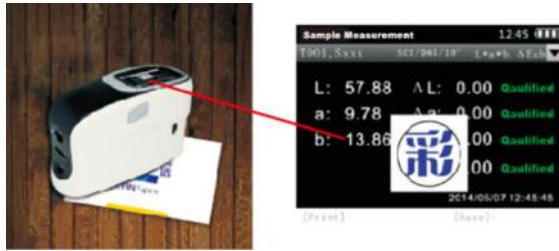
1. Brief Introduction

1). Our device adopts internationally agreed observe condition D/8 (Diffused lighting, 8 degrees observe angle) and SCI (specular reflection included)/SCE (specular reflection excluded). It could be used for color matching for many industries and widely used in painting industry, textile industry, plastic industry, food industry, building material industry and other industries for quality control.



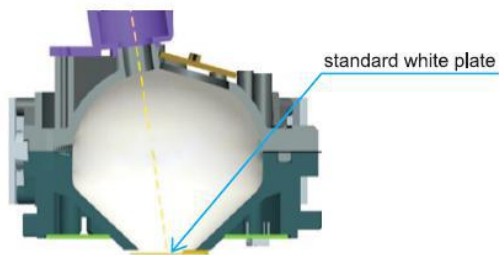
2). Camera view to catch the testing area (Patent Right Number: ZL20130519382X)

In previous measurement instrument, we can only aim at the testing area approximately, and this may introduce errors. Our spectrophotometers include a camera in our optical system, and the user can clearly see the tested area to avoid measurement errors.



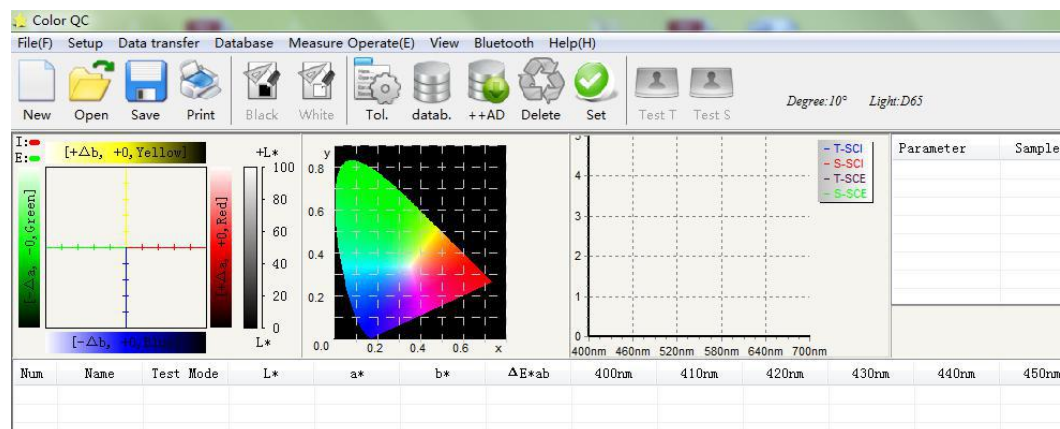
3).ETC Every Time calibration technology

Currently, most instruments use standard white boards for calibration. When white board is damaged, the instrument's accuracy or precision will no longer be guaranteed. In CHNSpec's spectrophotometers, it uses innovative ETC(Every Test Calibration); standard white board is included in the optical system, and therefore has reliable accuracy and repeatability in every measurement.



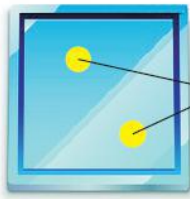
4).Free Color QC software

Our spectrophotometer comes with the color QC software, which is applicable in various industries' quality control and management of color data. It turns color into numerical data, compares color differences, generates measurement reports. provides measurement data under different color spaces and customizes color management for each customer.



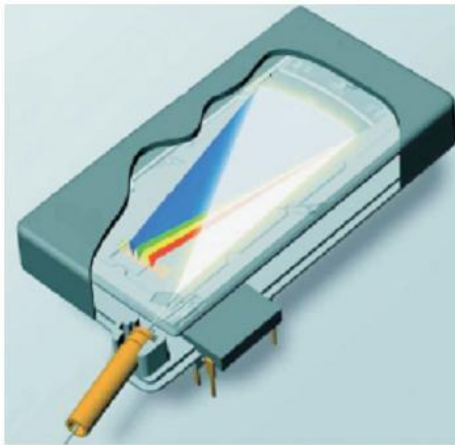
5).Automatic gloss compensation technology

Different gloss, or different instrument's lighting or observation conditions will largely affect the measurement of color. The automatic gloss compensation technology guarantees the accuracy of color measurement data for surfaces of different gloss. This research finding is published in international leading, SCI included journal, Optik.



The same color in different gloss will lead to different measured data.

6). Innovative light splitting SCS optical engine (Patent Right No.: ZL201210337619.2) Adopt innovative single-grating-double-beam light splitting system: SCS optical engine, creates the best measurement repeatability for portable spectrophotometers in the industry, and guaranteed accurate measurement of surface color of materials.



7). The most complete and color indicators compares with similar instruments. Comparing with similar products, our spectrophotometers offer the most complete, 28 kinds of standard light sources for lighting conditions and 40 measurement color value indicators, It can also customize measurement methods according to your requirement, and satisfy all your color measurement needs.

8). Longest Device Guarantee Time



- a. One Year Guarantee Time.
- b. If testing result is not correct, we will refund to you.
- 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.

9). More Pictures For Spectrophotometer XZB-C650



10. Technical Data

Type	XZB-C-650
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Illumination	d/8(Diffused lighting, 8 degrees observe angle)、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,Avian diffused reflection surface coating
Illumination Light source	Pulse Xenon Lamp
Sensor	dual light path sensor array
Wavelength range	360-740nm
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,DLF,TL83,TL84,NBF,U30,CWF
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	1 seconds
Test Aperture	Type A: 10mm, Type B: 4mm, 6mm
Measurement time	2 second
Color space	CIE-L*a*b, L*C*h, L*u*v, XYZ, Yxy, Reflectance Hunterlab,Munsell MI,CMYK,RGB,HSB
Color difference formulas	ΔE^*ab , ΔE^*CH , ΔE^*uv , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*94 , ΔE^*00 ΔEab (Hunter),555 shade sort
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 ISO luminance, 8 gloss, A density, T density, M density, E

	density
Repeatability	light splitting reflectivity: standard deviation within 0.08%
	color values: $\Delta E^*ab \leq 0.02$, Maximum:0.04
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°C, relative humidity 80% or below(at 35°C),no condensation
Storage temperature range	-25°C to 55°C, relative humidity 80% or below(at 35°C),no condensation
Standard accessories	DC adapter, Lithium battery, manual, color management software, drive software, electronic manual, color management guide, USB cable, black/white calibration tube, protective cover, spire lamella, portable bag, electronic color charts, measurement and test report
Optional accessories	powder molding device, micro printer
UV light source	With UV

11).Application



12).Packing List



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Qty.	Name	Qty.	Name
1	Main Instrument	1	Power Line
1	Operating Manual	1	USB Cable
1	Driving Software	1	Black/White Calibration Tile
1	Color QC Software	1	Verification Certification
1	Packing List	1	Warranty Card

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