





Spectral Colorimeter (SCD Series)

Brochure

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Leader in Lighting & Electrical Test Instruments

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Spectral Colorimeter

Basic Introduction

Spectral colorimeter is the colorimeter which adopts the theory of spectrophotometer. It is widely used for plastic, printing, paint, ink, textile, dyeing and other industries for color management. It could measure the target L*a*b, L*c*h and the sample ΔE and ΔLab value.

Product Model

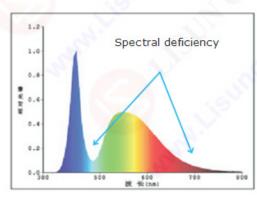


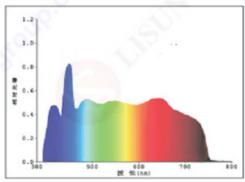
SCD-380/SCD-385/SCD-386/SCD-388

Technical Features

• Uses CLEDs light source – spectrally balanced LED light source LED light source that has balanced intensity across visible spectrum avoids the spectral deficiency in certain parts of the spectrum in common white LEDs, which quarantees the speed and accuracy of the measurement results. This research has

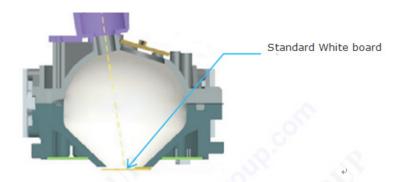
been published in national leading optical journal Chinese Optics Letter.





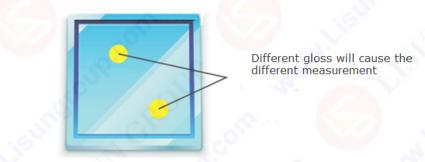
ETC-Every Test calibration technology

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 this 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.



Automatic gloss compensation technology

Different gloss or different instrument's light source or observation conditions will largely affect the color measurement. The automatic gloss compensation technology guarantees the accuracy of color measurement data for surfaces of different gloss. This research is published in international leading journal optic.



Innovative light splitting SCS optical engine

Adopt innovative single-grating-dual-light-paths 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.



Instrument Details



Technical Data

SCD-380	SCD-385	SCD-386	SCD-388	
DI/8(Diffused Illumination, 8 degree viewing)				
(conform to CIE No.15、ISO 7724/1、ASTM E1164、DIN				
5033 Teil7、 JIS Z8722 Condition c standard)				
Φ40mm, Avian diffused reflection surface coating				
				CLED
CLLD				
array sensor				
400-700nm				
10nm				
2s				
11mm ontional 4mm 6mm 15mm				
11111111,0ptional 411111,0111111,13111111				
Standard Deviation ΔE^* ab 0.08(when a white calibration				
plate is measured 30 x at 10-second intervals after				
calibration)				
2° and 10°				
		A,C,D50,D55,D65,D75,F		
		1,F2,F3,F4,F5,F6,F7,F8,		
A、C、D50、D65	F9,F10,F11,F12,DLF,TL8			
		3,TL84,NBF,U30,CWF ,		
		U35		
Chromaticity value (L*a*b, L*C*h), delta E value,				
	DI/8(Diffuse (conform to 5033 Teil7) Ф40mm, Avide CLED array sensor 400-700nm 10nm 2s 11mm,optio Standard Deplate is mecalibration) 2° and 10° A. C. D50	DI/8(Diffused Illumination, 8 (conform to CIE No.15、ISO 25033 Teil7、 JIS Z8722 Condot Φ40mm, Avian diffused reflect CLED array sensor 400-700nm 10nm 2s 11mm,optional 4mm,6mm,15 Standard Deviation ΔE*ab 0.0 plate is measured 30 x at calibration) 2° and 10°	DI/8(Diffused Illumination, 8 degree view (conform to CIE No.15、ISO 7724/1、AST 5033 Teil7、 JIS Z8722 Condition c stand Φ40mm, Avian diffused reflection surface CLED array sensor 400-700nm 10nm 2s 11mm,optional 4mm,6mm,15mm Standard Deviation ΔΕ*ab 0.08(when a w plate is measured 30 x at 10-second calibration) 2° and 10° A,C,D50,D 1,F2,F3,F4 F9,F10,F1 3,TL84,NE U35	

Туре	SCD-380	SCD-385	SCD-386	SCD-388	
	pass/fail, cold	or tendency, aver	rage, generate test report,		
	spectrum reflectance figure /data				
		With camera to see the measurement area	With camera to see the measurement area, spectrum reflectance figure /data, manual input target data		
Color Difference Formula	ΔE*ab, ΔE*C	Δ E*ab, Δ E*CH, Δ E*uv, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*94, Δ E*00		:1),ΔE*cmc(1	
Color Space	CIE-L*a*b, L*C*h, reflectance	CIE-L*a*b, L*C*h, XYZ, Yxy, reflectance	CIE-L*a*b, L*C*h, L*u*v ,XYZ, Yxy, reflectance		
Other		WI(ASTM E313-10,ASTM E313-73,CIE/ISO, AATCC, Hunter, Berger, Ganz, Stensby) YI(ASTM ASTM E313-00,ASTM E313-73)		(ASTM D1925,	
" dions	TOP I	0 10 (metameric staining fa fastness	c index , estness ,Color	
Data Storage	20000sample	es		·	
Light Source Lifetime	5 years, 1.5	million times	-000	.0	
Other Function	without	camera view, input color swatches		camera view, input color swatches, mobile phone APP	
Screen	Panchromatio	True Color Scre	en		
Language	Chinese and	English			
Interface	USB2.0		7	USB2.0 Bluetooth	
Operating Temperature	$5{\sim}45^{\circ}\mathrm{C}$, 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				
Power	Rechargeable Lithium Battery 8.4V/2000mAh, adaptor DC12V				
Size	77×86×210mm				
Weight	About 550g				
Standard Accessories adapter, operating manual, color management software, drive software, electronic manual, color management guide, USB cable, black/white calibration					

Туре		SCD-380	SCD-385	SCD-386	SCD-388	
		tube, protective cover, portable bag, electronic color charts				
		Cilaits				
Optional		Micro Printer				
Color	Matching	Not matched				
System		Not matched				
UV Light Source		without				

Application

