



Spectral Colorimeter

——Top-grade Accuracy



- Highest Precision Colorimeter
- Adopt spectral measurement theory for high accuracy
- Patented Technology for stability
- Optional accessories for different functions
- Obtain National Metrology Certification

CHN Spec

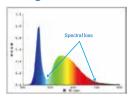
Hangzhou CHNSpec Technology Co.,Ltd

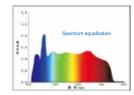
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Innovative Technologies

1. Uses CLEDs light source-spectrally balanced LED light source





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

3. Automatic gloss compensation technology

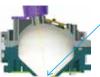
Different gloss, or different instrument's lighting or observation conditions will largely affect the measurement of color. CHNSpec breaks international technical blockade, and puts forward the automatic gloss compensation technology first within the industry, and guarantees the accuracy of color measurement data for surfaces of different gloss. This research finding is published in international contents of the color measurement data for surfaces of different gloss. This research finding is published in international contents of the color of th

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

of different gloss. This research finding is published in international leading, SCI included journal, Optik.

2.ETC Real Time calibration technology

Currently, most instruments use standard white boards for calibration. When white board is damaged, the instrument's accuracy or



standard white plate

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.Innovative light splitting SCS optical engine

CHNSpec uses 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.

Technical Parameter

Type	CS-280	CS-28	80+	CS - 286	CS-288	
l umination	di/8(diffuse i ll umination					
Illumination	(confrom to CIE No.15, ISO 7724/1, ASTME1164, DIN 5033 Teil7 、 JIS Z8722 Condition c standard)					
ntergrating Sphere iize	Φ40mm, Avian–diffused reflection surface coating					
llumination Light ource	CLED					
ensor	Array Sensor					
Vavelength	400-700nm					
Spectral Resolution	10nm					
Measurement Time	2s					
Measurement Aperture	11mm.optional 4mm.6mm.15mm					
Repeatibility	Standard Deviation ΔE^* ab 0.08 (Whena white calibration plate is measured30 x at 10-second intervals after white calibration)					
Observers	2° and 10°					
_ight 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, U35		
Disp l ay	Chromaticity value (L*a*b, L*C*h), delta E value, pass/fail, color tendency, average, generate test report, spectrum reflectance chart					
		with Camera			ectance figure,manually input target sample	
Color Differences		ΔE*ab, ΔE*CH	ΔE [*]	<u>ab, ΔΕ*CHΔΕ*uv, ΔΕ</u>	*cmc(2:1), ΔE*cmc(1:1), ΔE*94,ΔE*00	
Color Spaces	CIE- L*a*b,L*C*h	CIE-L*a*b,L*C*h,XYZ,	,Yxy CIE-	CIE-L*a*b*,L*C*h,L*u*v,XYZ,Yxy,Reflectance		
Other Index		WI(ASTME313-10,ASTM YI(ASTM D1925, ASTM Tint(CIE,ASTM E313,G		r, Ganz, Stensby)		
	metameric index Milm, staining fastness, color fastness					
/lemory	20000 pcs testing results					
ight Source Lifetime	5 years,1.5 million					
Other	without	camera,electricity pantone color chart			camera, electricity pantone color chart, Mobile Phone APP	
Disp l ay	Panchromatic true color screen					
anguage	Chinese and English					
nterface	USB2.0 USB2.0,blue tooth					
Vorking Temperature	5-45°C relative humidity 80% or less (at 35 °C) with no condensation					
Storage Temperature	-25° C to 55° C, relative humidity 80 %or less (at 35 ° C) with no condensation					
Power	Rechargable Lithium Battery 8,4V/2000mAh,adaptor DC12V					
Size	77×86×210mm					
Veight	about 550g					
Standard Accessories	AC Adapter,Operating Manual,Color QC Software,Driving Software,USB Cable,Calibration Tiles (Black and White),Protection Cover, Canvas bag					
Optional	Micro Printer					
Color Matching System	not matching					
JV Light Source	excluded					
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