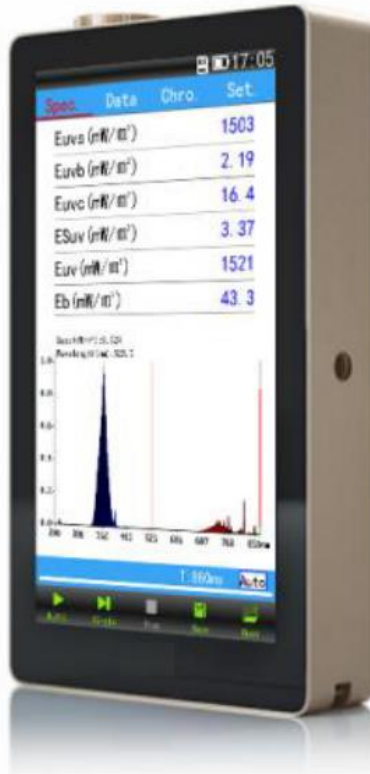


Model SAUV-230850 / (OHSP-350UV) UV Spectrum Analyzer / Spectrometer Technical Introduction Bulletin – Spec-sheet*

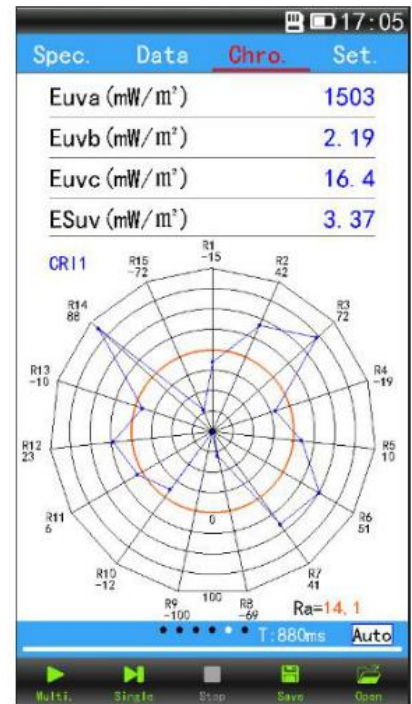
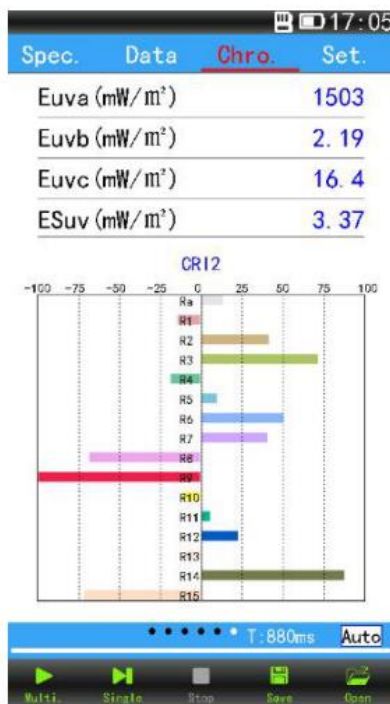
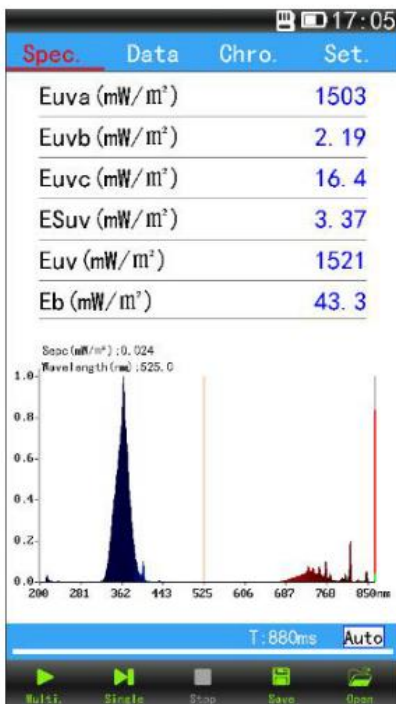
(230nm–850nm) handheld spectral colorimeter illuminance meter set of measurement function Spectrum, illumination, chromaticity, light flicker in one. Using 5 inch screen, the measurement parameters and curves are displayed in real time. It is convenient to use and can be directly tested in the lighting field., Not only measurable LED wide spectrum light source, but also can measure the narrow spectrum light sources, such as CFL, HID, and so on., It can also be used to test the environmental light of stage design, building light, plant growth lamp, engineering application and so on.

1、Advantages

- ▲ Long telephoto optical system, the optical resolution of 2nm, a wider wavelength range, mainly measure the light source;
- ▲ automatic zeroing technology and Electronic shutter Technology, Integral time $50 \mu s \sim 10000ms$,both stronger and weaker light signal can be measured;
- ▲ Fast switchgear, one key test;
- ▲ 5 "IPS high definition LCD touch screen;
- ▲ Large battery capacity, Test usage time more than 24 hours time;



Test interface:



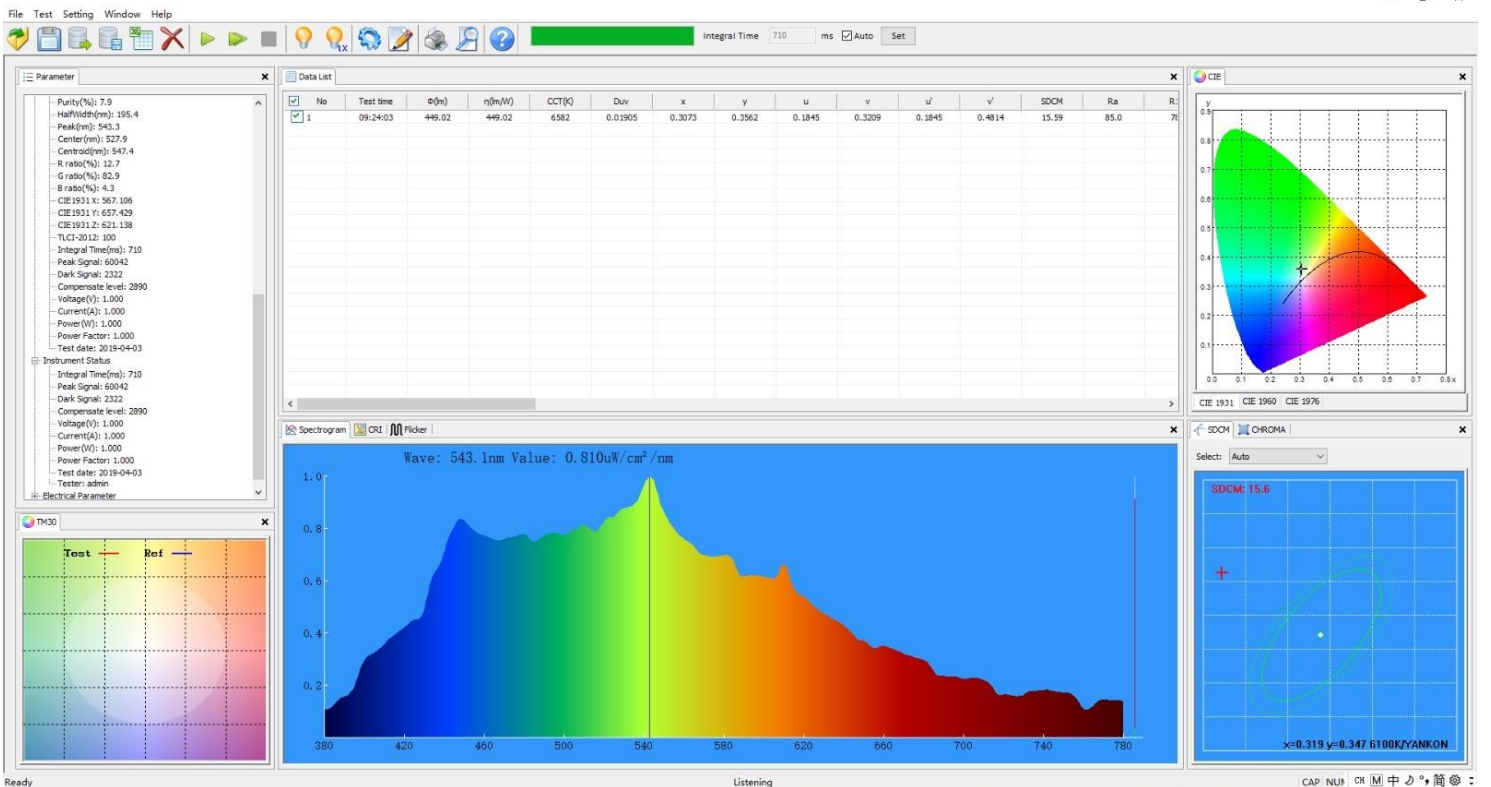
A、technical indicators

Light splitting platform	Long focal length optical system	Range of illuminance measurement	5-200000lx
(FWHM)	2nm	Range of color temperature measurement	1000-100000K

spectral resolution	0.2nm	x,y Accuracy	±0.001	@ Under the condition of standard A light source 2856K and illuminance 10000lx
Senor	CCD	x,yrepeatability	±0.0005	
Sensor array points	3648	Accuracy of illumination	±4%	
Zeroing mode	Auto zeroing	Chromaticity accuracy	±1.5%	
Integral time	50us-20000ms	Wavelength accuracy	±0.5nm	
LCDDisplay	5 "IPS high definition LCD touch screen	Wavelength data output interval	1nm	
R.P.	480X854	AD Resolving power	16bits,250kSPS	
Measurement mode	Single / continuous	Language	Simplified / traditional / English	
Exposure mode	Auto / manual	File save	8GB SD Card	
Spectral display mode	6 optional display parameters	Data output interface	SDCard/USB2.0	
	Spectral distribution graph	size	163x81x25.8mm	
Data display mode	All parameters can be displayed up and down	Probe window	∅ 10mm	
Pattern display mode (Multiple patterns)	CIE1931 chromatic diagram	Weight (contains batteries)	500g	
	CIE1960 chromatic diagram	Operating temperature	0~35°C	
	CIE1976 chromatic diagram	Storage temperature	-10~40°C	
	SDCM Color tolerance	Continuous working time	>10hours	
	Circular graph of color rendering index	Battery capacity	4000mAh	
	Bar graph of color rendering index	Whole machine structure	All aluminum alloy engraving	

B、 Measurement parameters

- 1.CCT Tc (K) and Blackbody deviation Duv
2. light illumination E (LX), candlelight E (Fc) Spectral irradiance Ee (W/m2)
3. chromaticity coordinates (x, y), (U, V), (U', V')
4. relative spectral power distribution P (lambda)
5. color rendering index Ra, Ri (i=1 ~ 15)
6. color tolerance (SDCM, CIE)
7. Dominant wavelength, peak wavelength
8. light and dark visual ratio S/P
9. color purity, red ratio, green ratio, blue ratio, CIE1931 three basic color stimulus value X, Y, Z
10. UV irradiance(W/cm2)、 UVA、 UVB、 UVC、 Euv、 Eb、 Eg、 Er、 Eir



Test Report

Product Mark

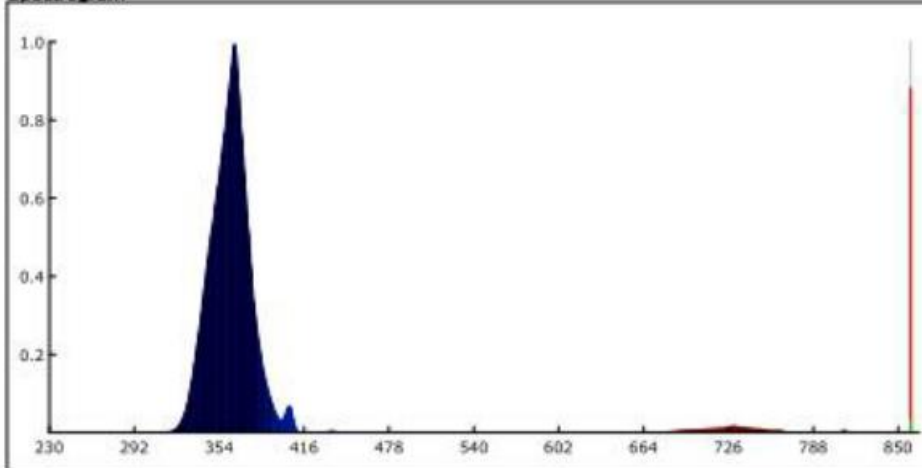
Model:
 Temperature: 20°C
 Tester: admin

Manufacture:
 Humidity: 65%
 Test Date: 2019-10-16,13:46:29

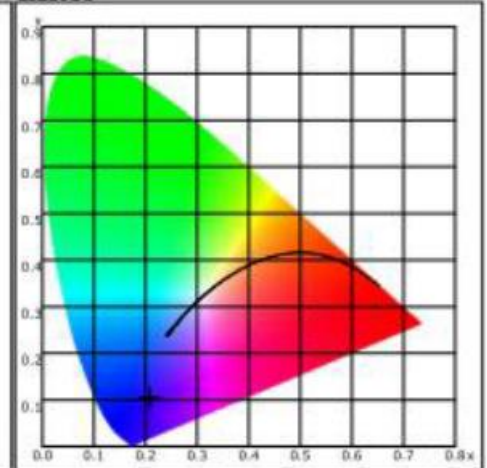
Parameter

Name	Value	Name	Value	Name	Value	Name	Value
ESuv(mW/m ²)	0.0007	CIE u,v	0.2170,0.1634	CIE1931 Y	10.539		
Euvv(mW/m ²)	0.0003	CIE u',v'	0.2170,0.2451	CIE1931 Z	69.306		
Euvb(mW/m ²)	0.0014	SDCM	89.42	TLCI-2012	12		
Euva(mW/m ²)	0.6612	Ra	43.1	Integral Time(ms)	0		
Euv(mW/m ²)	0.66	Ee(mW/cm ²)	0.702	Peak Signal	57817		
Eb(mW/m ²)	0.02	S/P	5.404	Dark Signal	2081		
Eg(mW/m ²)	0.00	Dominant(nm)	447.10	Compensate level	2890		
Er(mW/m ²)	0.00	Purity(%)	71.9				
Eir(mW/m ²)	0.02	HalfWidth(nm)	29.1				
E(lx)	7.20	Peak(nm)	365.7				
Candle E(fc)	0.67	Center(nm)	362.5				
CCT(K)	100000	Centroid(nm)	375.5				
Duv	-0.06061	Color Ratio(RGB)	18.4,67.8,13.8				
CIE x,y	0.2082,0.1045	CIE1931 X	20.991				

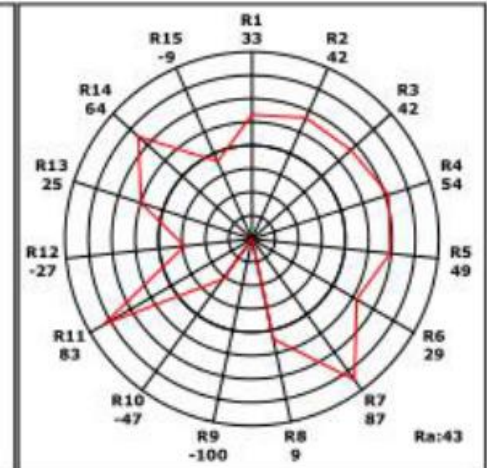
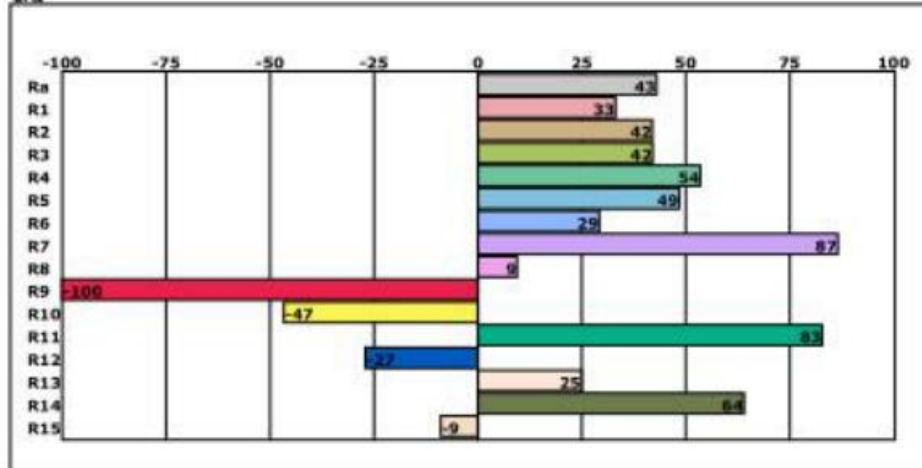
Spectrogram



CIE1931



CRI



Instrument Status

Type:
 Integral Time: 0.033ms

SN: 201811874
 VPeak: 57817

Scan Range: 230-850nm
 VDark: 2081

Remark:

Excel File

7	Wavelength(nm)	1#	2#	3#	4#	5#		
8	350	0.110317	0.058826	0.040589	0.068695	0.066995		
9	351	0.09628	0.053598	0.052861	0.063279	0.067614		
0	352	0.089206	0.06295	0.061443	0.049633	0.063601		
1	353	0.084348	0.062491	0.063162	0.059915	0.063216		
2	354	0.080303	0.058805	0.058774	0.060667	0.056782		
3	355	0.073681	0.053324	0.056367	0.062553	0.056747		
4	356	0.065811	0.047664	0.05172	0.056672	0.057994		
5	357	0.05887	0.043096	0.044485	0.05167	0.056036		
6	358	0.052886	0.036195	0.036433	0.046831	0.044648		
7	359	0.048004	0.031153	0.033424	0.041062	0.035046		
8	360	0.04318	0.029905	0.035103	0.03995	0.026545		
9	361	0.04254	0.028994	0.038957	0.039345	0.02642		
0	362	0.042147	0.030481	0.038116	0.036428	0.027575		
1	363	0.043298	0.03191	0.036295	0.034556	0.02892		
2	364	0.04282	0.032089	0.034927	0.035903	0.032157		
3	365	0.039484	0.030853	0.033727	0.038133	0.029754		
4	366	0.037703	0.028243	0.038838	0.039809	0.032071		
5	367	0.033802	0.027142	0.039091	0.035173	0.032439		
6	368	0.029768	0.024539	0.037922	0.029777	0.032104		
7	369	0.026256	0.023259	0.035497	0.025997	0.028999		
8	370	0.025614	0.022493	0.035019	0.024898	0.022008		
9	371	0.025449	0.022393	0.032607	0.02594	0.019801		
0	372	0.024148	0.022346	0.028833	0.025339	0.017459		
1	373	0.025058	0.023517	0.025918	0.024366	0.021559		
2	374	0.024823	0.024304	0.025048	0.022786	0.023509		
3	375	0.025396	0.022179	0.022975	0.019603	0.023952		
4	376	0.025454	0.020099	0.022401	0.018748	0.022804		
5	377	0.025003	0.017141	0.021189	0.017601	0.021231		
6	378	0.025061	0.017268	0.022501	0.020474	0.022275		