COLOR VISION

COLOR VISION Spectral Imaging Colorimeter SV-2000

● Spectral Imaging Colorimeter

SV-2000 is a new spectral imaging colorimeter launched by Color Vision. By integrating a spectrometer, SV-2000 can not only capture the luminance and chromaticity data of the entire image, but also obtain spectrum data to improve the accuracy of the imaging colorimeter measurements.

At the same time, the spectrometer data can also be used to calibrate the imaging colorimeter, providing customers with higher accuracy and greater calibration convenience. The 20-mega pixels allows customers to quickly measure the spatial luminance and chromaticity distribution of samples, providing high-resolution details for testing.

SV-2000 can be widely used in measuring/testing of display products such as FPD display/vehicle display/ backlight/Micro-LED/Micro-OLED.

SV-2000 is not only perfect for laboratory testing that requires high precision, but its fast measurement is also excellent for mass production line testing.

● Accuracy Guaranteed

✓Excellent for measuring Micro-LED/Micro-OLED/Mini-LED/ OLED/LCD and other display products;

✓Various factory calibrations available to ensure measurement accuracy and stability;

✓Built in ND filter wheel enables various luminance measurement range;

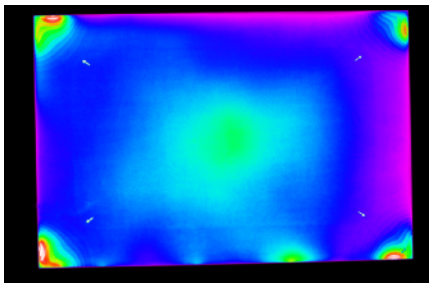
✓User calibration provides greater flexibility;

● Applications

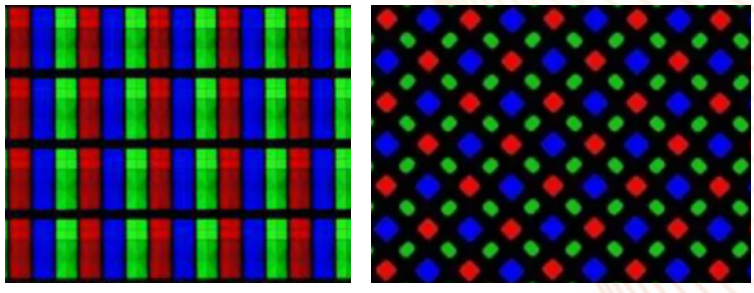
- ◇ Luminance/chromaticity/uniformity measurements for Micro-LED/Micro-OLED/Mini-LED/ OLED/LCD display
- ◇ Testing of FPD screen light leakage, Mura and other defects
- ◇ BLU backlight luminance/chromaticity/uniformity measurements

● Features

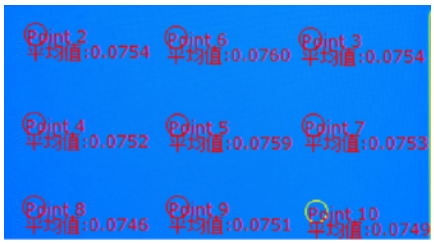
- ◇ Integrated spectrum and imaging colorimetry measurement
- ◇ 20 mega pixel high resolution
- ◇ Easy to operate, complete automatic exposure test with one click
- ◇ Synchronize frequency option to eliminate the error of periodic signal measurement
- ◇ Pseudo-color image for intuitive evaluation of luminance and chromaticity uniformity
- ◇ Flexible settings for various points of interest
- ◇ Easy data analysis/export



▲ Pseudo-color map



▲ Macro imaging captures sub-pixels details



▲ Point of Interest

选择	名称	类型	X坐标	Y坐标	平均值
☑	Point 2	Circle	763	1840	54.72433
☑	Point 3	Circle	3223	1884	55.97514
☑	Point 4	Circle	742	2648	54.78104
☑	Point 5	Circle	2037	2662	55.13629
☑	Point 6	Circle	2022	1862	55.09698
☑	Point 7	Circle	3252	2662	55.764
☑	Point 8	Circle	749	3390	54.20019

▲ Data Analysis

Specification

Brand & Model	COLOR VISION SV-2000
Sensor	Back-illuminated CMOS
Resolution	20M，5520*3680
Cooling*1	TEC Cooling + air cooling
Luminance Range*2	0.001-10,000,000cd/m^2
Exposure Time	0.1ms-5s
Luminance Accuracy*3	±3%
Chromaticity Accuracy*3	x,y ±0.003
Spectrum Range	380-780nm
Spectrum Luminance Range	0.1-10,000,000cd/m2
Spectrum Luminance Accuracy	±2%
Spectrum Chromaticity Accuracy*3	x,y ±0.002
Sync Frequency	Set the Sync Frequency to match the sample refresh rate
Software	Color Vision Test Software
Test Function	Luminance, Chromaticity, Uniformity, CIE1931, CIE1976 Chromaticity coordinates, Tristimulus, CCT, dominant wavelength etc.
Data Interface	USB 3.0
Weight	About 2.5 kg
Working Environment	0-35°C，10-80% non-condemnation
Power Supply	100-240V，50-60Hz

*1 Thermoelectric Peltier Cooling + air cooling, working temperature configurable
*2 High luminance measurement requires an optional ND filter, minimum luminance requires a long exposure time
*3 Under test conditions of standard A light source 100cd/m2