

COLOR VISION Imaging Luminance Colorimeter CV-2000

• Cost-effective Imaging Luminance Colorimeter

CV-2000 is an imaging luminance colorimeter from Color Vision, which can quickly obtain the luminance and chrominance distribution information of samples by means of images, and 20 million pixels provide high-resolution details for testing.

CV-2000 can be widely used in FPD display/vehicle display/luminous keyboard/lighting test.

The CV-2000 is not only suitable for laboratory testing requiring high accuracy, but also for production line testing with its high cost performance.



• 特点

- ◇ Scientific grade cooling 20 million pixels high resolution
- ◇ Easy to operate, one key to complete automatic exposure test
- ◇ Synchronous frequency setting test to reduce test data fluctuation deviation
- ◇ Pseudo-color map for observation of luminance and chromaticity uniformity
- ◇ Flexible setting of focus
- ◇ Easy data analysis/export

• Simple and practical software interface



▲ Pseudo-color map uniformity observation

选择	名称	类型	X坐标	Y坐标	平均值
<input checked="" type="checkbox"/>	Point 2	Circle	763	1840	54.72433
<input checked="" type="checkbox"/>	Point 3	Circle	3223	1884	55.97514
<input checked="" type="checkbox"/>	Point 4	Circle	742	2648	54.78104
<input checked="" type="checkbox"/>	Point 5	Circle	2037	2662	55.13629
<input checked="" type="checkbox"/>	Point 6	Circle	2022	1862	55.09098
<input checked="" type="checkbox"/>	Point 7	Circle	3252	2662	55.764
<input checked="" type="checkbox"/>	Point 8	Circle	749	3390	54.20019

▲ Data Analysis Statistics

• Accuracy Guarantee

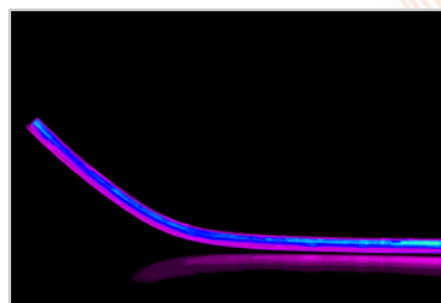
- ✓ Strictly match the CIE XYZ filter design to provide accurate luminance and chroma information;
- ✓ Two-stage semiconductor cooler greatly reduces test noise, suitable for testing low luminance gray scale of OLED/LCD products;
- ✓ A variety of in-plant corrections ensure accurate and stable data;
- ✓ User calibration provides more flexibility;

• Product Application

- ◇ LCD/OLED/LED display luminance/ chroma/uniformity test
- ◇ FPD screen leakage, Mura and other defects test
- ◇ BLU backlight luminance/chroma/ uniformity test
- ◇ Automotive/aviation instrument display
- ◇ AR/VR display luminance /chroma/ uniformity test
- ◇ Luminescent keyboard brightness chromaticity test
- ◇ Lighting test



▲ Set focus point



● Specification

Brand & Model	COLOR VISION CV-2000
Sensor	Back-illuminated CMOS
Resolution	20 million pixels, 5520*3680
Cooling *1	TEC Cooling(5°C as default)
Luminance Range *2	0.001-10,000,000cd/m ²
Exposure Time	0.1ms-300s (User can set the maximum exposure time)
Luminance Accuracy*3	±3%
Chromaticity Accuracy*3	x,y ±0.003
Luminance Repeatability*3	0.5%
Sync Frequency	Set the Sync Frequency to match the sample refresh rate
Software	Color Vision Test Software
Test Function	Luminance, chroma, uniformity, CIE color coordinate xy, tristimulus value, correlation color temperature CCT, main wavelength, etc
Data Interface	USB 3.0
Weight	About 2.5kg
Working Environment	0-35°C, 10-80%non-condensation
Power Supply	100-240V, 50-60Hz

*1 Bipolar semiconductor, 40-45°C below environment;

*2 ND Filter is needed for high luminance, minimum brightness need long exposure time;

*3 Test condition under standard A illumination @100cd/m² ;

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