COLOR VISION

COLOR VISION Imaging Luminance Colorimeter BV-2000

● Cost-effective Imaging Luminance Colorimeter

BV-2000 is an imaging luminance colorimeter produced by Color Vision. It adopts 20 megapixel for providing high resolution detail for testing.

BV-2000 can get the luminance and chroma distribution information by fast one-shot imaging and more accurate luminance and chromaticity data can be obtained after luminance and chromaticity correction of user samples.

BV-2000 can be widely used for testing of FPD display/vehicle display/ illuminated keyboard/illumination, etc.

Because of its high cost performance and rapid measurement

feature, BV-2000 is suitable for application in the production line for testing.

● Features

- ◇ Scientific grade cooling
- ◇ 20 megapixel high resolution,Easy operation
- ◇ Flexible calibration function for users
- ◇ Reduce test data fluctuation deviation by setting synchronized frequency for test
- ◇ Pseudo-color map for observation of luminance and chromaticity uniformity
- ◇ Flexible for setting focus points
- ◇ Easy data analysis/export

● Accuracy Guarantee

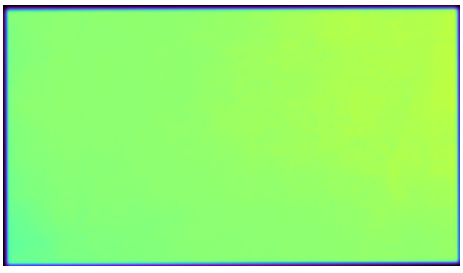
✓ Dual-stage semiconductor cooling significantly reduces test noise, suitable for testing OLED/LCD and other products of low luminance gray scale;

✓ Multiple internal factory calibrations guarantee accurate and stable data;

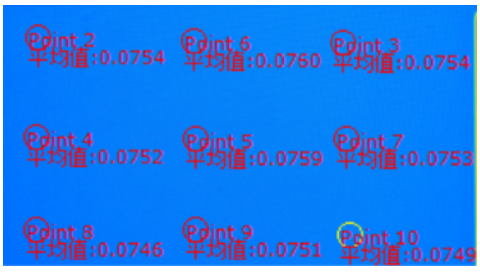
✓ User Self-calibration provides greater flexibility;

●Product Applications

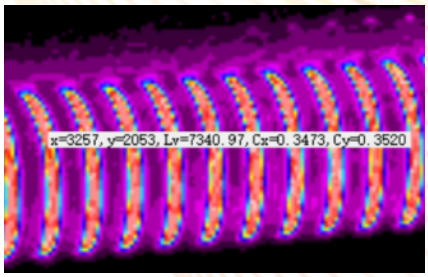
- ◇ LCD/OLED/LED Display luminance and chromaticity/uniformity test
- ◇ FPD Screen Leakage、Testing of defects such as Mura
- ◇ BLU Backlight luminance and chromaticity/ uniformity test
- ◇ OLED/LCD Demura test
- ◇ Automotive/Aerospace Instrument Display
- ◇ AR/VR/HUD Display luminance and chromaticity / uniformity test
- ◇ Illuminated keyboard luminance and chromaticity test
- ◇ Lighting sources luminance and chromaticity test



▲ Pseudo-color map uniformity observation



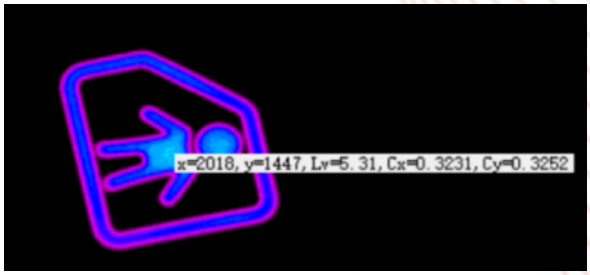
▲ Set focus point



▲ Brightness of light source

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	55.09898
☑	Point 7	Circle	3252	2662	55.764
☑	Point 8	Circle	749	3390	54.20019

▲ Data Analysis Statistics



▲ Illuminated key indicator

• Specification

Brand & Model	COLOR VISION BV-2000
Sensor	Back-illuminated CMOS
Resolution	20M，5520*3680
Cooling*1	TEC Cooling（5°C as default）
Luminance Range*2	0.001-10,000,000cd/m2
Exposure Time	0.1ms-300s（User can set the maximum exposure time）
Luminance Accuracy*3	±3%
Chromaticity Accuracy*3	±0.003（Test condition under specific light sources: ±0.002）
Luminance Repeatability*4	±0.5%
Chromaticity Repeatability*4	±0.0001
Sync Frequency	Set the Sync Frequency to match the sample refresh rate
Software	Color Vision Test Software
Test Function	Luminance, Uniformity, CIE1931 ,CIE1976 etc
Data Interface	USB 3.0
Weight	About 1.5 kg
Working Environment	0-35°C，10-80% non-condemnation
Power Supply	100-240V，50-60Hz

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

*2 ND Filter is needed for high luminance;

*3 Test condition under standard A illumination @100cd/m^2;

*4 Test stable uniform A illumination @100cd/m^2, take the image of the center 1% area pixel tie value;