



高识能股份有限公司  
High View Innovation

[www.hviglobal.com](http://www.hviglobal.com)

# 二维彩色分析仪

## 2D Color Analyzer



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# 二维彩色分析仪 2D Color Analyzer

## 特点 Main Features

1. 可测量二维色度、辉度信息  
**Quantitative measurement of 2D chromaticity and brightness information**
  
2. 内建光谱仪，可测量频谱信息  
**Internal spectrometer can measure frequency spectrum information**
  
3. 内建多片衰减片，可测量高亮度光源  
**Built-in multi-chip attenuation, measures high-brightness light sources**





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## 比较 Comparison



	量测方式 Measurement Method	数据处理 Data Processing	量测视角 Measurement Angle	动态范围 Dynamic Range
二维彩色分析仪 2D Color Analyzer	一次量几百万点以上 One time measurement of more than several million pixels.	极快, 几个按键即可完成进阶运算 Extremely fast, only a few steps required to operate.	极小,可以ROI合并至大视角 Minimum, Can combine ROI and a large view angle	单一影像可至1000以上 A single image can be up to over 1000
传统式彩色分析仪 Conventional Style Color Analyzer	一次量一个点的亮度色度 Can only measure of single pixel brightness and chromaticity.	慢 ,进阶运算繁杂 Slow, too many operational steps required.	少数几种,距离远时太大 With a few types, the distance is far and too big	高,但为单点 High, but for a single pixel



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## 应用范围

## Range of Applications



Applications for Industrial FPD, LCD,  
LED, OLED, Display Panel Inspection

### 1. 被动\主动显示器色彩与均匀性检测

Passive-active monitor chromaticity and uniformity inspection

### 2. LED晶粒\LED light bar色度与辉度检测

LED \ Light Bar Chromaticity and brightness inspection

### 3. 光源色度与辉度检测

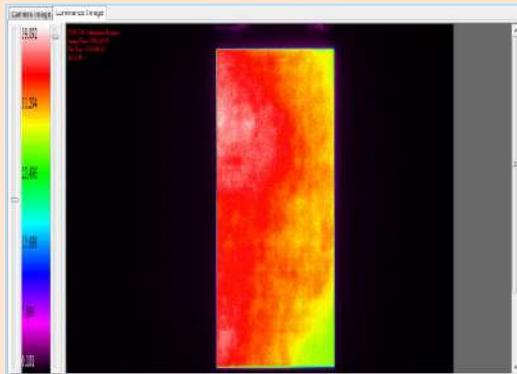
Light Source Chromaticity and brightness inspection

## 二维彩色分析仪 2D Color Analyzer

量测实例

Example Applications

OLED



LED 光条

LED Light Stripe



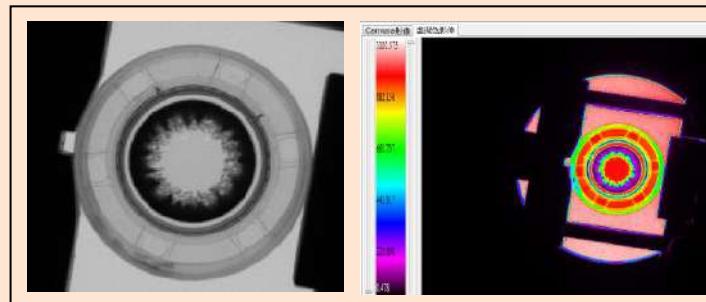
原始影像

Original Image

量测影像

Measurement Image

隐形眼镜 (瞳孔放大片)  
Contact lenses (mydriasis)



原始影像

Original Image

量测影像

Measurement Image

发光键盘

Illuminated Keyboard





# 二维彩色分析仪 2D Color Analyzer

## 规格 Specifications

CCD resolution CCD 分辨率	1392×1040 pixels
CCD A/D dynamic range CCD A/D 动态范围	12 bits = 4096 gray scale levels
Units 单位	nits 尼特
Luminance range 辉度范围	0.5~10 <sup>7</sup> nits (with optional ND filters)
System accuracy 系统准确度	辉度 Luminance(Y) ± 3% 色度坐标 Chromaticity coordinates(x,y) < 0.0035
Short-term repeatability 短期重复性	辉度 Luminance(Y) ± 0.5% 色度坐标 Chromaticity coordinates(x,y) <0.0003
Interface 界面	USB 2.0

Working distance (cm) 工作距离	Field of view (cm) 视野
45	12.2
55	14.7
65	17.2





# 二维彩色分析仪

## 2D Color Analyzer

### 软件功能

### Software Function

- 可连接电源驱动器

Connect the power driver

- 设定电压与电流

Set up the voltage and current

- 进行单次量测或连续量测

Choose a single measurement  
or continuous measurement





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# 二维彩色分析仪

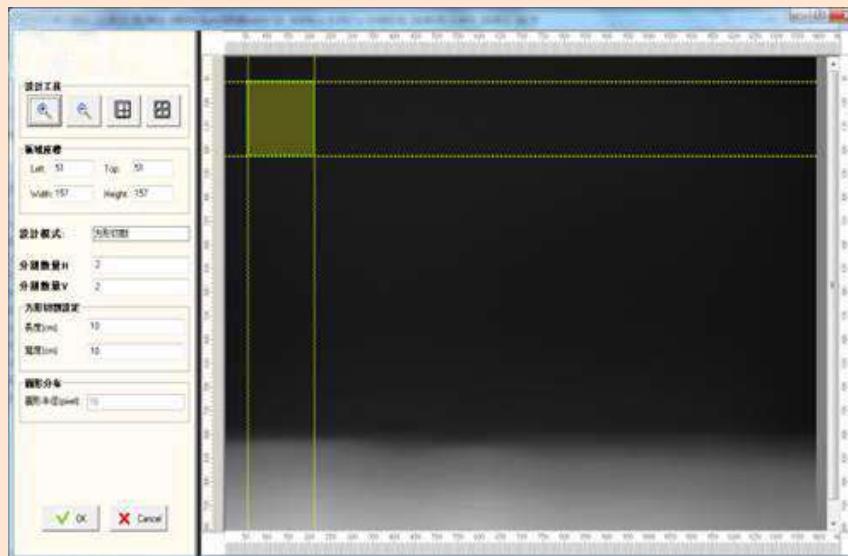
## 2D Color Analyzer

软件功能

Software Function

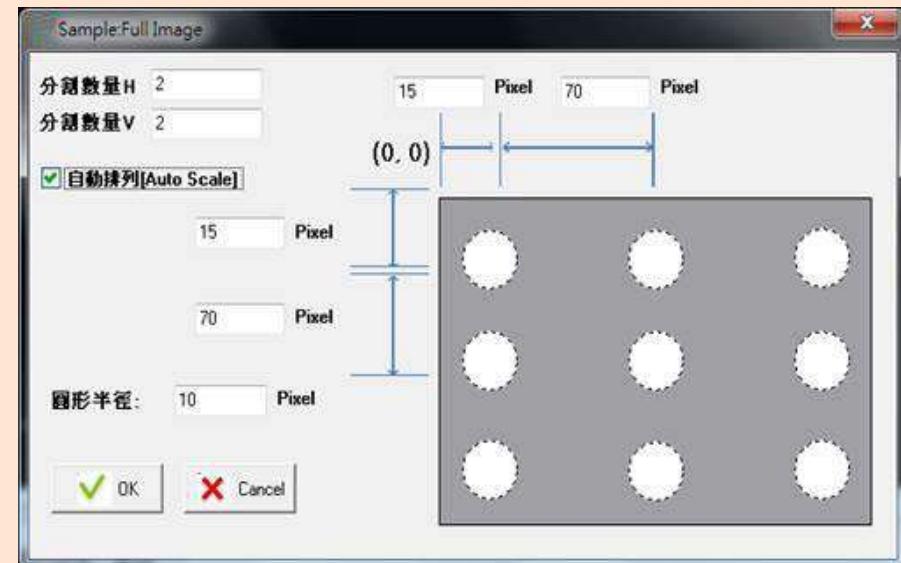
多种量测模式

Measurement Modes



自选待测区域

Optional test area



圆形分布

Circular distribution



# 二维彩色分析仪 2D Color Analyzer

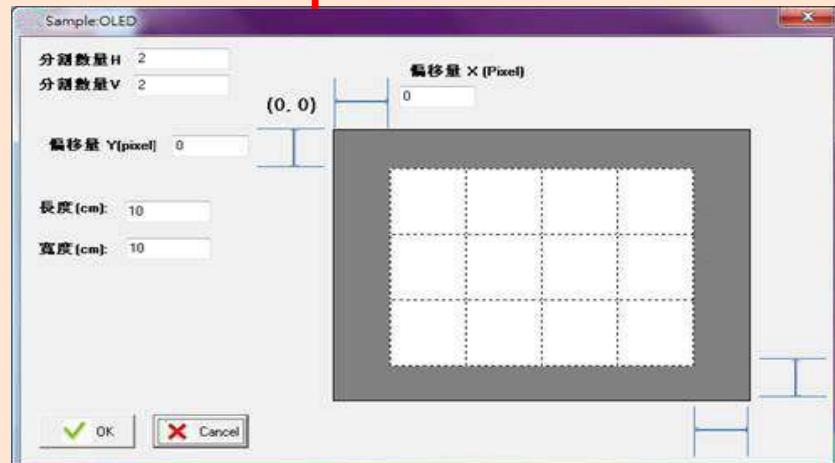
软件功能

Software Function

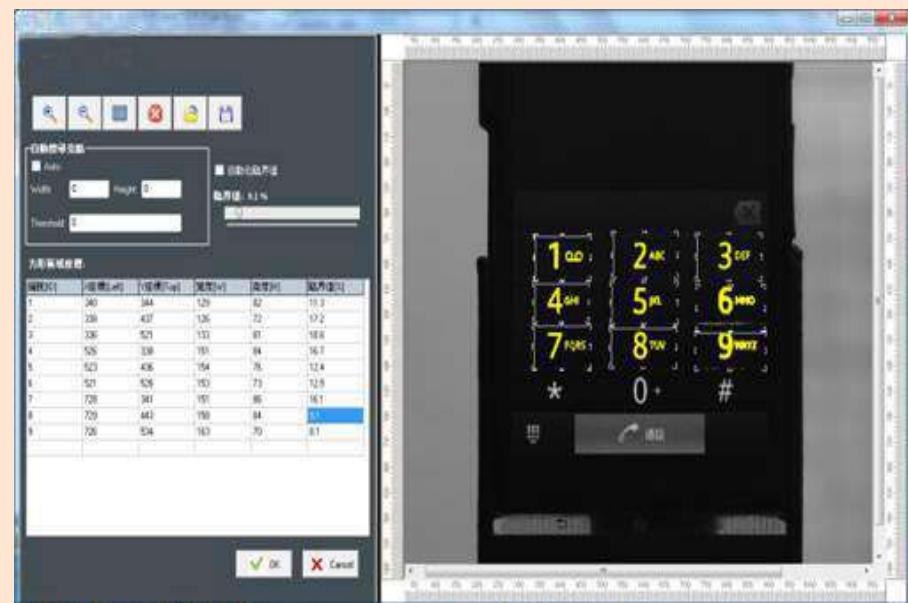
多种量测模式  
Measurement Modes



方形切割  
Square-cut



设定量测临界值，过滤背景值干扰  
Setting measurement thresholds &  
Filtering background interference





# 二维彩色分析仪 2D Color Analyzer

软件功能

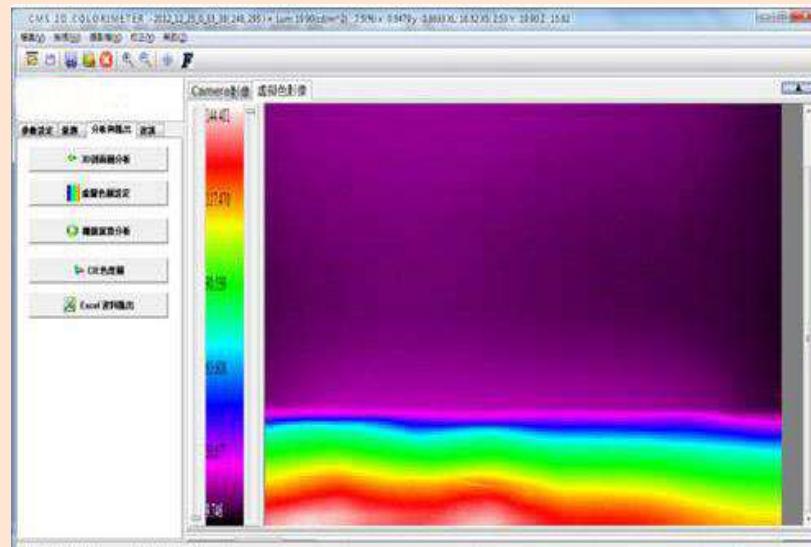
Software Function

2D\3D 显示模式  
2D\3D Display Mode

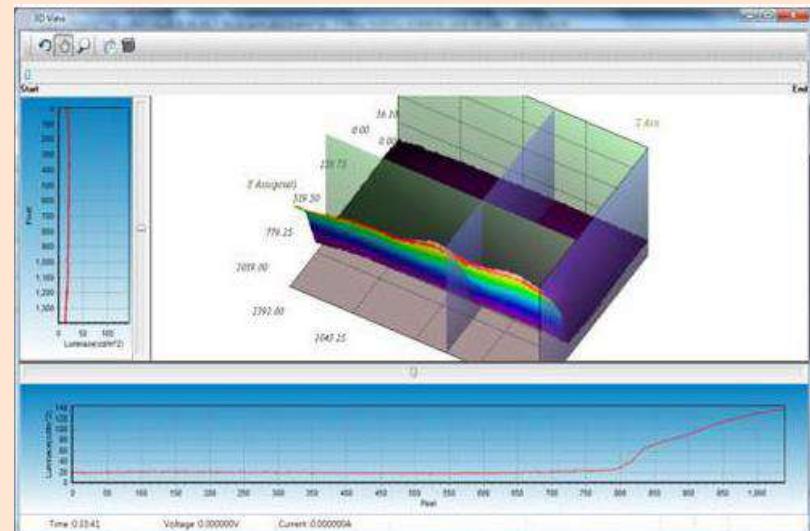
2D虚拟色(辉度与色度均匀性)

2D virtual color

(Luminance &Chromaticity uniformity)



3D剖面分析  
3D profile analysis

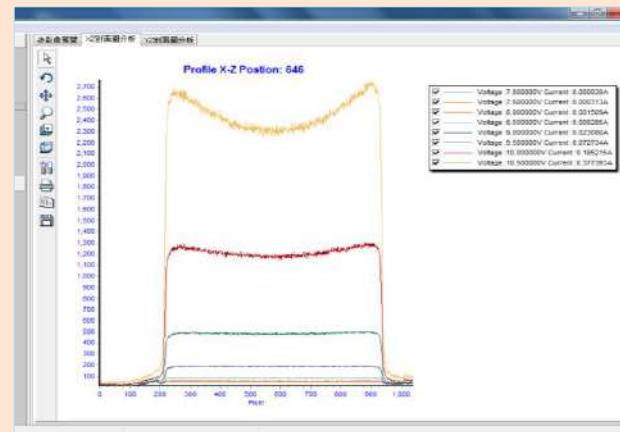
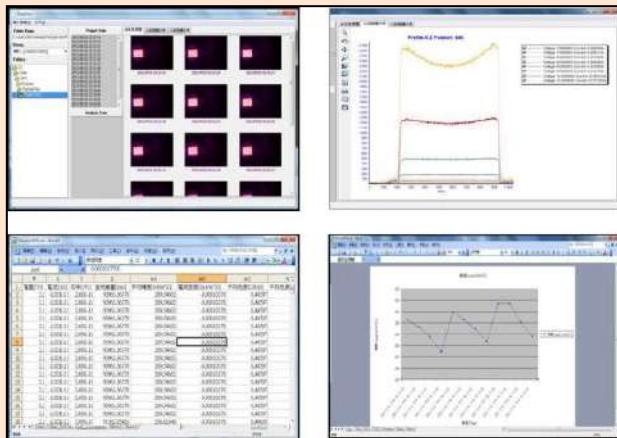




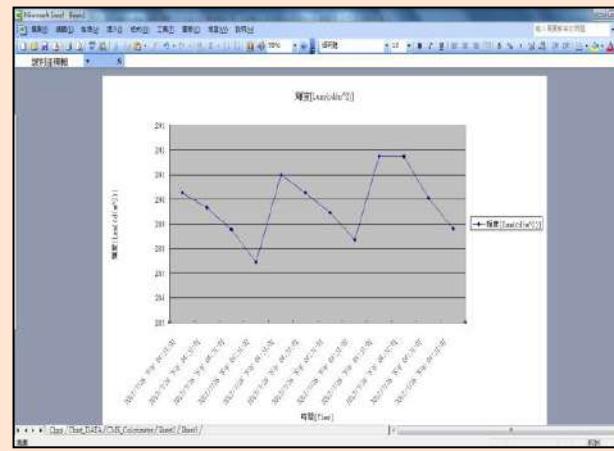
# 二维彩色分析仪 2D Color Analyzer

- 直接显示量测图档，选择要分析的档案，并储存成图表

**Directly displays measurement image file, chooses important files for analysis, and stores all your completed images.**



	W	X	Y	Z	AB	AC	A	
1	電壓(V)	電流(A)	功率(W)	全光通量(lm)	平均照度(cd/m <sup>2</sup> )	電池密度(mA/m <sup>2</sup> )	平均色固(CIE(x))	平均色度(y)
2	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
3	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
4	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
5	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
6	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
7	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
8	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
9	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
10	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
11	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
12	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
13	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
14	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
15	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
16	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
17	2.1	-4.028-11	2.688-11	90963.56378	289.54602	-0.00010178	0.44597	
18	2.1	-4.028-11	2.688-11	91362.0963	290.81446	-0.00010178	0.44609	





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