

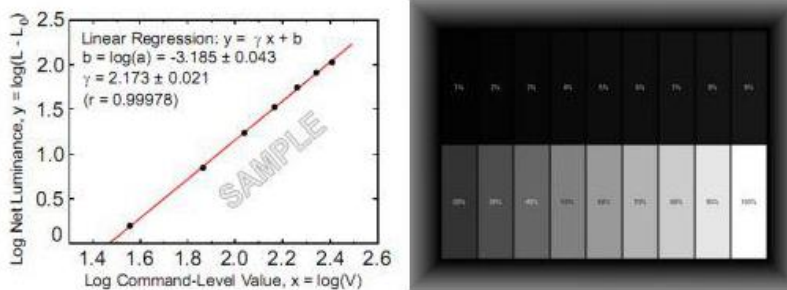
DCA-527 色彩分析仪 DCA-527 color analyzer

- 采用高稳定的、光谱响应曲线与CIE1931、严格匹配的三色光电探测部件，可逐点进行光色参数的测量，测试功能包括：
The highly stable, spectral response curve and CIE1931 strictly matched tricolor photoelectric detection components are used to measure the light color parameters point by point. The test functions include:
- 亮度、对比度；
Brightness and contrast;
- 色品坐标(x, y)、(u', v')、相关色温 CCT、三刺激值X、Y、Z、RGB特性分析、
Chromaticity coordinates (x, y), (u', v'), related color temperature CCT, tristimulus value X, Y, Z, RGB characteristic analysis
- 均匀性（也可根据需要配置多个探测器）；
Uniformity (multiple detectors can also be configured as required);
- 闪烁等级（对比法FMA、JEITA法）；
Flicker level (contrast method FMA, JEITA method);
- Gamma曲线的测试及校正（需提供通讯协议或安卓手机下载APP软件配合实现）
Gamma curve test and correction (it is required to provide communication protocol or Android mobile phone to download APP software for coordination)



特点与优势 Characteristics and advantage

- 1) 无需显示主机，可直接连接Windows平板操作或电脑使用，操作方便，便于产线使用。
1) No display host is required, and it can be directly connected to Windows tablet operation or computer for use, which is convenient for operation and production line use.
- 2) 测量灵敏度高，满足OLED屏和低灰阶条件下显示器的低灰阶亮度、对比度的精确测量。
2) It has high measurement sensitivity and can meet the requirements of accurate measurement of low gray scale brightness and contrast of OLED screen and display under low gray scale conditions.
- 3) 采样速度快，大大缩减红绿蓝白棕等多种颜色多个灰阶（0-255任意值）的GAMMA自动快速测量时间，提高产线测量效率。
3) Fast sampling speed, greatly reducing the automatic and fast measurement time of GAMMA with red, green, blue, white, brown and other colors and multiple gray scales (0-255 arbitrary values), and improving the measurement efficiency of the production line.
- 4) 采样速度快，可用于测量闪烁（对比法、JEITA法）等瞬时特性的准确测量(闪烁探头选配)。
4) With fast sampling speed, it can be used to measure flicker (contrast method, JEITA method) and other instantaneous characteristics accurately (flicker probe option).



灰阶测试



色域测试

闪烁测试



均匀性测试

Gamma测试

技术参数 Specifications

- 1) 亮度精度及范围: 1.5% 10-5000 cd/m²
1) Brightness accuracy and range: 1.5% 10-5000 cd/m²
- 2) 亮度重复性及范围: 0.1% 1-5000 cd/m²
2) Luminance repeatability and range: 0.1% 1-5000 cd/m²
- 3) 色度精度及范围: 0.002 1-5000 cd/m²
3) Chroma precision and range: 0.002 1-5000 cd/m²
- 4) 闪烁对比法精度及范围 (2-1500 cd/m²)
1% (闪烁频率: 30 Hz AC/DC 10% 正弦波)
4) Accuracy and range of scintillation contrast method (2-1500 cd/m²)
1% (flicker frequency: 30 Hz AC/DC 10% sine wave)
- 5) 闪烁JEITA法精度及范围 (2-1500 cd/m²)
0.35dB (闪烁频率: 30Hz AC/DC 1.2% 正弦波)
5) Accuracy and range of scintillation JEITA method (2-1500 cd/m²)
0.35dB (flicker frequency: 30Hz AC/DC 1.2% sine wave)
- 6) 重复同步频率: 0.5至300 Hz (亮度或者色度)
6) Repetitive synchronization frequency: 0.5 to 300 Hz (brightness or chroma)