EVERFINE 远方

LED 850 LED 阵 列 快 速 测 试 系 统
LED 850 LED Array Speed Test System

杭州远方光电信息股份有限公司
EVERFINE Corporation
（股票代码 Stock code:300306）

各类LED封装及LED阵列
的高精度快速测试系统

High accuracy & speed test system for LED packages and LED arrays

专利设计
patent design

LED850 LED阵列快速测试系统主要用于单颗大功率LED、联排大功率LED、集成封装（COB）LED、LED阵列、LED模块等产品的半成品补粉控制、成品测试，分BIN筛选等。系统兼顾速度与精度、外形美观大方、集成度高，是LED在线测试、产品分选、质量检验与控制的理想仪器。

LED850 LED Array Speed Test System is mainly used to measure the spectral, colorimetric, photometric, and electric quantities for LED packages, COB LEDs, LED arrays and modules, etc. It is especially suitable for the on-line testing and BIN classification with fast speed and high accuracy.

优异性能，满足在线高精度测量要求
Meet on-line & high-accuracy measurement requirements by excellent characteristics

高精度
High measurement accuracy

　　系统采用远方公司享有盛誉的高精度快速光谱辐射计家族产品，具有高波长精度、低杂散光、宽线性动态范围等优点，可准确测量LED及LED产品的光谱、色度、光度参数。

The system integrates the spectroradiometer which belongs to the family of EVERFINE high accuracy & high speed spectroradiometers. The art performance of this spectroradiometer including high wavelength accuracy, low stray light, and wide linear dynamic range make the system is capable of measuring the spectral and photometric quantities of LEDs and LED products with high accuracy.
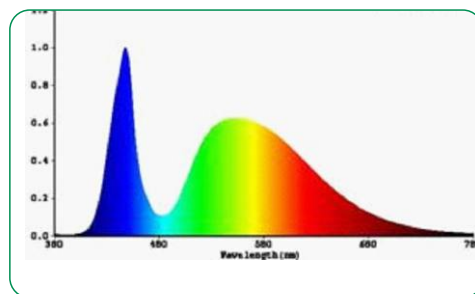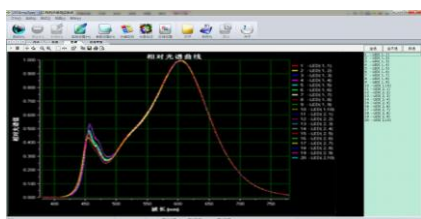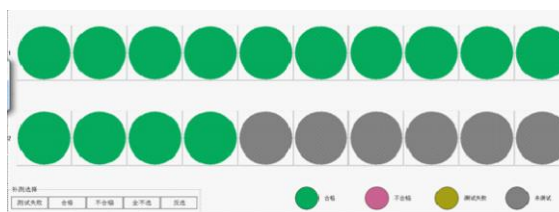

典型LED光谱　Spectrum of typical LED

高速度
High measurement speed

　　系统采用精密阵列探测器，及矩阵开关和同步触发技术，可在毫秒级内完成LED的光色测试，非常适合于LED在线分析测试。

The system adopts accurate array detector, matrix switch and synchronous trigger technology, so as to realize high measurement speed within milliseconds.

多颗LED的光谱
spectra of multiple LEDs

逐次快速测量LED阵列中的每颗LED
Automatically test each LED in sequence of LED array

高集成度
High system integration

　　系统集高精密快速光谱辐射计、精密测光积分球、LED精密直流稳流供电电源及电学测量系统、光学标准定标系统、LCD触屏界面式测控系统于一体，真正实现一站式测试与管理。外形美观大方，完全不同于其他组合拼凑系统。

The system integrates accurate array spectroradiometer, integrating sphere, DC power supply for LEDs, electric test system, standard calibration system, and software with high integration and aesthetic appearance.

液晶触摸屏为介质的人机交互界面
LCD touch screen provides friendly interface and simple operation.

　　系统集成超大触摸显示屏，操作界面友好。指尖轻轻点击，即可轻松完成测试与筛选，使用十分方便。

The system integrates a large LCD touch screen which enable an vivid interface. The test and classification can be completed with a finger touch.
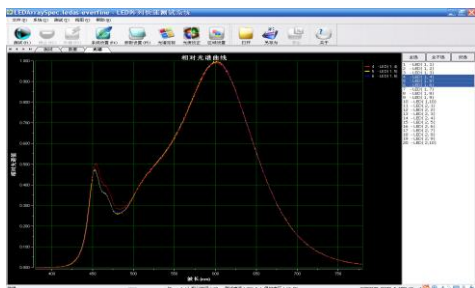

触屏操作 Operation of touch screen

LED 850 的典型应用及特点

Typical Application of LED 850

单颗LED测试
Single LED test

适用于大功率LED、SMD LED（3528、5050、3014、5630等）等各种封装形式的LED。测试速度快，精度高。

The system offers fast and accurate measurement for single LED including high power LEDs and SMD LEDs.
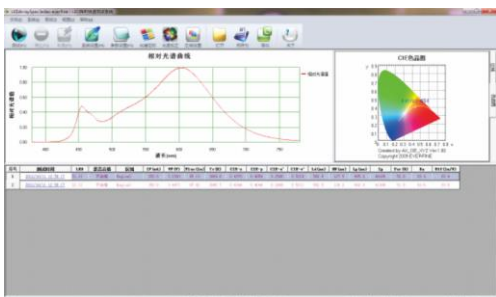

High Power LED

SMD LED

集成封装（COB）LED测试
COB LEDs test

夹具可调，适用于各种尺寸的集成封装LED。

The system suits to different sizes of COB LEDs.
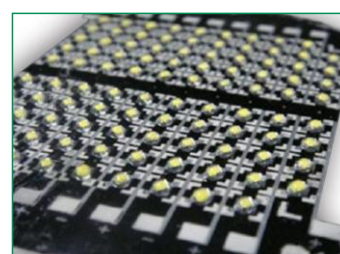

COB LED

MCOB LED

联排LED(LED阵列)测试
LED array test

可快速扫描测试联排LED中的每颗LED，并具备分BIN筛选功能，非常适合LED的一致性筛选。

The system can measure each LED one by one of LED array, and has BIN function.

COB LED阵列 COB LED Array

大功率封装LED阵列 High Power LED Array

LED在线补粉测试
On-line test for phosphor supplementary

精确测量LED光色电参数，并自动筛选合格LED；
Measure photometric and colorimetric quantities to make the classification for LEDs.

直观定位不合格品，指导补粉工作，并快速补测补粉产品。
Locate the unqualified LEDs to assist the phosphor supplementary, and quickly retest the LEDs for which the phosphor supplementary is done.
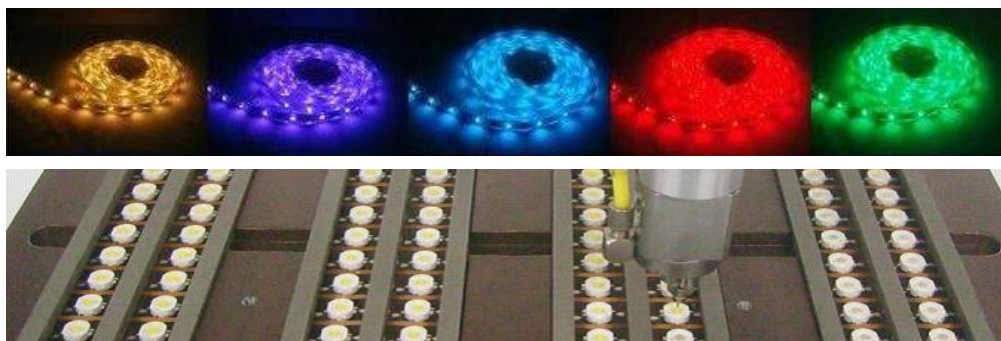
LED补粉工作 Phosphor supplementary of LED

测试与分选同步，应用广泛
### Integrates test and classification function with wide applications

对于单个产品，LED850可高精度、快速获得其光度色度参数，成为其质量检测和控制的有效手段。对于批量产品，LED850可自动进行白光LED色温分区、分BIN筛选等功能，是LED一致性筛选的理想工具。
无论对于LED封装厂家，还是LED应用产品厂家，LED850均有广泛的应用空间。

For single LED product, LED850 can acquire its spectral, colorimetric and photometric parameters with high accuracy and high speed, which make it be the ideal tool for product quality test and control.
For product group, LED850 can realize automatic CCT categories, BIN classifications, which make it be the ideal tool for product classifications.
LED850 can be widely applied in the manufacturers of both LED packages and LED lamps and luminaires.
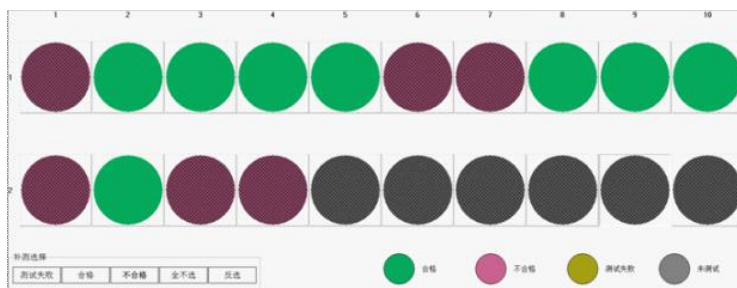
LED成品筛选 Classification of finished LED
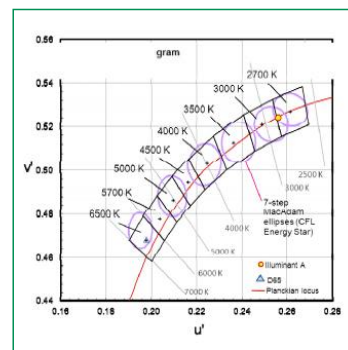
LED色温分类 Nominal CCT categories

LED850的主要测试功能
Measured items of LED 850

可全面测试LED的光色电参数，包括：相对光谱功率分布、色品坐标、色温、显色指数、色容差、峰值波长、半宽度、色纯度、主波长、红色比、光通量、电压、电流等。

The system can measure the spectral, colorimetric, photometric and electric characteristics of LEDs , including : relative spectral power distribution, chromaticity coordinate , color temperature , color rendering index ,SDCM , peak wavelength, FWHM , color purity , dominant wavelength, red ratio, luminous flux, voltage and current ,etc.
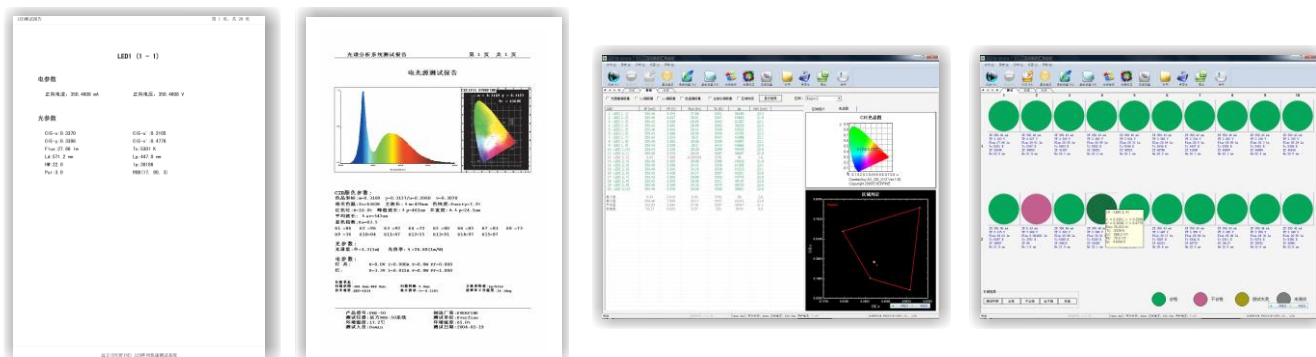
LED850的主要应用厂家
Main user of LED 850

◎ 封装厂商生产流水线上的半成品检测，指导补粉操作，控制LED及LED阵列的光色一致性；

Apply to the online test for semi–finished LEDs, so as to assist the phosphor supplementary and maintain the color consistence of LEDs for manufacturers.

◎ 封装厂商成品的品质控制和拣选；

Apply to the quality management and classification for the finished LEDs.

◎ 协助灯及灯具制造商筛选LED封装原材料。

Apply to assist the manufacturers of lamps and luminaires to select the LEDs with high quality.

远方公司其他主要产品
Other main products of EVERFINE

光谱辐射计（光谱分析仪）
Spectroradiometer

光谱辐射计（光谱分析仪）广泛用于LED及各类光源和灯具的光谱、颜色、光通量、物体反射率、透射率等光度、色度量的测量。

The spectroradiometer is widely used to measure the spectral, photometric and colorimetric quantities of LEDs and other lighting sources.

分布光度计（配光性能测试系统）
Goniophotometer

分布光度计主要用于光源或灯具的配光性能测试，总光通量测试，空间颜色分布及颜色不均匀性测试及空间亮度分布测试。

The goniophotometer is widely applicable to acquire the luminous intensity distribution, luminous flux, spatial color distribution, and luminance distribution of lamps and luminaires.

LED加速老化与寿命测试系统
Aging-Life Test System for LEDs & LED Luminaires

用于LED、LED模组、LED灯具的常规老化、加速老化、光通维持特性试验、寿命试验和温度特性试验。具备LED寿命推算功能。

The Systems are widely used for normal /accelerated aging, lumen maintenance measuring, lifetime evaluation and temperature characteristic testing for LED products. The extrapolation of lifetime is also available to estimate the lifetime of LED products.

LED 热学性能测试系统
Thermal Analysis System for LEDs

专业的LED结温、热阻和热结构分析测试仪器。

The systems are used to measure the junction temperature, thermal resistance and thermal structure of LEDs.

光辐射安全测定系统
Optical Radiation Safety Test System

用于各种灯和灯系统的危害加权辐射量、紫外含量和光色度参数等的测量，并评定其危害等级。

The systems are designed especially for the measurement and determination of optical radiation hazard exposures and classification of optical radiation sources.

照度计/ 亮度计/光度计
Illuminance meter & luminance meter & photometer

系列智能照度计、光谱辐照度计、光谱辐亮度计、成像亮度计、彩色亮度计、瞄点式亮度计、光度计等产品提供照明现场、工程验收、FPD显示、背光源、汽车灯等领域内的专业光色测量仪器。

EVERFINE offers series of illuminance meters, spectral irradiance meters, spectral radiance meters, image luminance meters, luminancecolorimeters, luminance meters to applied widely in the lighting field measurement, FPD display, back lights, and automotive lights, etc.

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