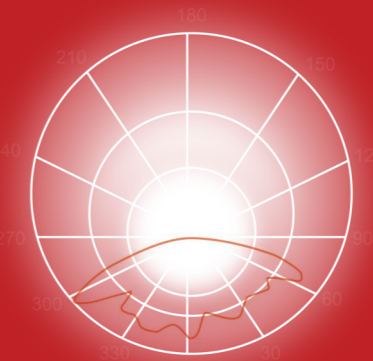


EVERFINE 远方

股票代码 : 300306
Stock code : 300306

国际高端LED和照明检测设备 Quality LED & Lighting Measurement Instrument



杭州远方光电信息股份有限公司 EVERFINE Corporation

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杭州远方光电信息股份有限公司
EVERFINE Corporation

公司简介 COMPANY PROFILE



远方总部
EVERFINE Headquarters

杭州远方光电信息股份有限公司（股票代码：300306，简称“远方信息”）是智能检测信息技术和服务提供商，业务涉及光电检测、生物识别、材料特性测量、电磁兼容测试、核磁共振、基因检测等专业，拥有自主核心技术，广泛服务于工业、交通、金融、军工、公共、医疗等领域。到目前为止，远方信息是全球唯一一家以“LED和照明检测设备”为主营业务而实现公司上市的企业。公司坐落于被誉为“天堂硅谷”的杭州滨江国家高新技术开发区，是国家火炬计划重点高新技术企业，国家规划布局内重点软件企业，国内首家CIE正式官方会员企业，

全国照明电器标委会光和辐射测量分技术委员会秘书处承担单位，拥有美国NVLAP和中国CNAS认可实验室。

远方公司多次承担国家高技术研究发展计划课题和省市级重大科技攻关项目，拥有专利260余项，其中包括中、美、德发明专利60余项，多项高科技产品获得“中国专利优秀奖”、“首批国家自主创新产品”、“国家重点新产品”等荣誉称号。远方公司还积极参与国际标准化活动，主导或参与了40余项国际、国内标准或技术规范的制修订。

公司产品和应用解决方案已被数万家企业和政府机构采用，产品出口和国内市场占有率均遥遥领先。客户包括中国计量院（NIM）、联合国开发计划署（UNDP）、美国国家标准技术研究院（NIST）、台湾工业研究院（ITRI）、SGS、ITS、TUV、DEKRA、CTI等国际高水平计量检测实验室和华为、CREE、SIGNIFY、OSRAM、SAMSUNG等国际著名企业。



远方制造基地
EVERFINE Manufacturing Base



远方中心
EVERFINE Center

EVERFINE Corporation (Stock Code: 300306) is a professional supplier of intelligent detection technology and service. Business involves multiple measurements of photoelectric, biometric, material, EMC, MRI and DNA. Based on the own independent core technology, products are widely used in industries, transportation, finance, military industry, medical and other public fields. Till now, EVERFINE is the unique stock-listed company in the world in the field of LED and lighting measurement. EVERFINE is located in Binjiang National Hi-Tech Zone, Hangzhou, China, where is also called the Heaven Silicon Valley. EVERFINE is a National Certificated High-tech Enterprise. And it's the first Chinese official supportive member of CIE. Besides, EVERFINE is the Chinese representative and technical committee of CIE D2 and has a laboratory accredited by both NVLAP and CNAS.

EVERFINE has undertaken many technology

projects like National 863 high-tech program and local government Key Science & Technology Program. EVERFINE owns more than 260 patents and among them, more than 60 are Germany and America invention patents. Many high-tech products won the honorary awards such as "China Patent Excellence Award", "National Independent Innovation Product", "National Key & New Product". EVERFINE is also active in the international standardization work, and has chaired or participated in over 40 international and domestic standards.

EVERFINE's products and application solutions have been adopted by tens of thousands of enterprises and government agencies, and lead both oversea and domestic high-end market. Customers include international high-level metrology and testing laboratories like NIM, UNDP, NIST, ITRI, SGS, ITS, TUV, DEKRA, CTI and famous enterprises like HUAWEI, CREE, SIGNIFY, OSRAM, SAMSUNG, etc.



远方大厦
EVERFINE Mansion

远方企业文化核心

EVERFINE Enterprise Culture Essence

企业使命

更精准，更精进。

愿景目标

以客户为中心，提供世界一流精准感知设备和服务，让每一位客户更加满意，做超百年企业。

价值观

以员工为本，对股东尽职，客户第一。

以德才定岗位，以贡献论分配，助奋斗者成功，人人向善向上。

聚合各种资源力量，实现最佳共同利益。

工作作风

简单高效，阳光规范；说到做到，节点记录；

监督工作，正面求证；目标导向，考核结果。

拥抱竞争，积极比拼，勇于批评，敬业守信；

关爱鼓励，分享学习，长处相加，专业协作。

管理方式

质量方针：确保品质，持续改进，让每一位客户更加满意。

管理原则：事事专人负责，人人自我管理，自愿配合他人，团队紧密合作。

用人做人

德才兼备者，公司栋梁，领军带队；德厚才疏者，培训挖潜，尽其所能；

德才较浅者，引导鼓励，恰当使用；德寡才多者，及时识别，快速清理。

干部冲一线，元老当参谋。

奖惩理念

及时褒奖小成绩，年度奖励大业绩。偶有失误要宽容，累犯故意须严惩。



远方

EVERFINE

YF



EMFINE

AUTOFINE

WEYF



MeMe

MeMe

iMeMe

Everfine EMC



METRUE

美确

SOWAY 数威



谱照

EverSpex

任意谱

AnySpectra



诗贝伦
spektron

UVTRON
优维伦

HiTRON
海极伦

DuroDiffuson
漫玻



维尔

维尔驾服

维尔E学车



Wellcom

Welldrive

Welldriver

Wellpay



轻行

无忧乐行

全程无忧

金指通



笛美美

DIFFME

家家付

家乐付

远方公司旗下品牌与商标
Brands & Trademarks of EVERFINE

资质与荣誉 CERTIFICATES & AWARDS



Make the past honors be a step for a more brilliant tomorrow

- 国际照明委员会(CIE)突出贡献奖
Awarded by CIE Board of Administration
- 美国NVLAP认可实验室
US NVLAP accredited Lab
- 中国CNAS认可实验室
China CNAS accredited Lab
- 全国照明电器标准化技术委员会光辐射测量分技术委员会 (SAC/TC224/SC3) 秘书处
Secretariat of The Sub-committee of Measurement of Light and Radiation of Standardization Administration of China.
- 国家火炬计划重点高新技术企业
Key Hi-tech Enterprise of the Nation
- 中照照明科技创新一等奖
First Prize in Technology Innovations issued by CIES
- 中国专利优秀奖
National Outstanding Innovation
- 国家自主创新产品奖
National Innovation Product
- 国家重点新产品奖
National Key & New Product
- 浙江省科学技术奖
Science & Technology Award of Zhejiang Province
- 2013/2014福布斯中国最具潜力上市公司100强
2013/2014 Forbes China's Most Potential Listed Companies
- 浙江省企业研究院
Enterprise Research Institute of Zhejiang Province
- 浙江省半导体照明测试系统工程技术研究中心
SSL Test Engineering Research Center of Zhejiang, China

美国NVLAP和中国CNAS认可实验室 NVLAP AND CNAS ACCREDITED LAB

以公司自主研制设备为主的光学、电学和电磁兼容专业实验室获得美国NVLAP和中国CNAS双认可，并获得美国EPA注册实验室,成为国内首家获得认可的LED和照明检测仪器供应商，可提供研发检测、高端比对服务以及光度辐射度学的基础量值校准服务。

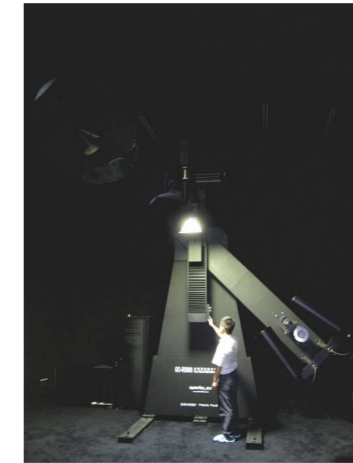
EVERFINE Test and Calibration Center has been accredited by NVLAP and CNAS, as the first manufacturer of LED and lighting measurement instruments to receive the certificates in China.



NVLAP证书 NVLAP certificate



CNAS证书 CNAS certificate



远方光电科学研究院 EVERFINE OPTOELECTRONICS RESEARCH INSTITUTE

研究院是远方公司的核心创新力量，建有院士工作站、企业博士后工作站、省级高新技术企业研发中心、浙江省半导体照明检测工程技术研究中心等，配备了多个具有国际领先或先进水平的光学、电学实验室，拥有一支综合实力全球领先的LED和照明检测仪器研发团队。

The institute is the core innovation department of EVERFINE, in the institute, there are Academician work station, Post-Doctoral Research Center, Province Level High-tech R&D Center and so on. In addition there are several photoelectric labs that equip the most excellent instruments.

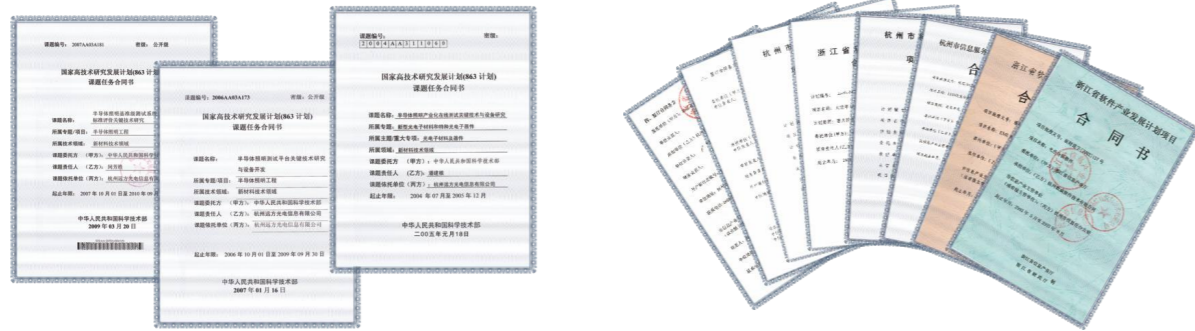


先进的光、电实验室 Advanced Photoelectric Laboratories

承担政府科技项目 GOVERNMENT PROJECTS

远方公司多次承担国家高技术计划项目、省“重大科技攻关项目”、“软件产业发展计划项目”、“杭州市重大科技创新项目”等，攻克国际光电测试前沿尖端技术。

EVERFINE undertook projects under National 863 Hi-tech Programs, "Key Science & Technology Program" support by Zhejiang Province, "Zhejiang Software Industry Development Programs" and "Innovation Science & Technology Programs" support by Hangzhou City.



专利发明 PATENTS AND INVENTIONS

远方公司已拥有260项专利，包括60余项中国、美国、德国发明专利，是国家知识产权示范企业。其中，分布光度计、光谱辐射计等核心技术专利荣获“中国专利优秀奖”。

EVERFINE has been granted more than 260 patents, including China, US and German ones. Several patents for the core technologies of goniophotometer and spectroradiometer were recognised with "National Outstanding Innovation" award.



美国发明专利
US Patent

德国发明专利
Germany Patent

中国专利优秀奖
China Excellent Patent

主导或参与标准制定 PARTICIPATE IN STANDARD ESTABLISHMENT

远方公司积极参与CIE、IEC、ASSIST、ENERGYSTAR等国际LED和照明标准化工作，并主持或参与国内外40余项标准的起草和编写。

EVERFINE has already participated in the drafting more than 40 international and national standards.



远方公司负责或参与起草的部分标准
The partial standards that EVERFINE participated

全球最大的LED和照明高端客户群 CUSTOMER GROUP

远方公司拥有全球最大的LED和照明高端客户群，已为全球数十家权威认证实验室和万余家客户提供专业测试解决方案。

EVERFINE owns the largest high end customer group in LED and lighting industry in the world, has provided solutions for big amount of accredited labs & enterprises..



部分客户 Part of customers

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HAAS-2000/3000 高精度快速光谱辐射计 (实验室级)

HAAS-2000/3000 High Accuracy Array Spectroradiometer (Laboratory grade)

世界领先的快速光谱辐射计
The Leading Speed Spectroradiometer

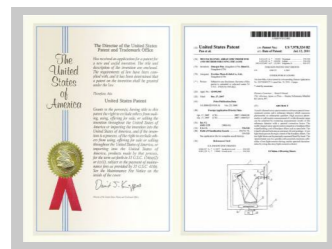


国家 863 计划研究成果
National High-tech Program(863 Program) Research Achievement

美国及中国发明专利授权
International Patents Issued

世界领先的技术指标 World Leading Specifications

- 可测 $<1\ \mu\text{s}$ 的极快闪光全谱 Can measure the spectra of flash light $<1\ \mu\text{s}$
- 0.3%的极高光度线性 0.3% photometry linearity
- 到达0.01mcd的极高灵敏度 Up to 0.01mcd sensitivity
- 0.0015 x, y 的极高色坐标精度 0.0015 x, y accuracy
- 5.00E-05的极低杂散光水平 5.00E-05 stray light level
- 覆盖200nm~2550nm的极宽光谱范围 200nm~2550nm spectral range



美国发明专利授权
US patent granted

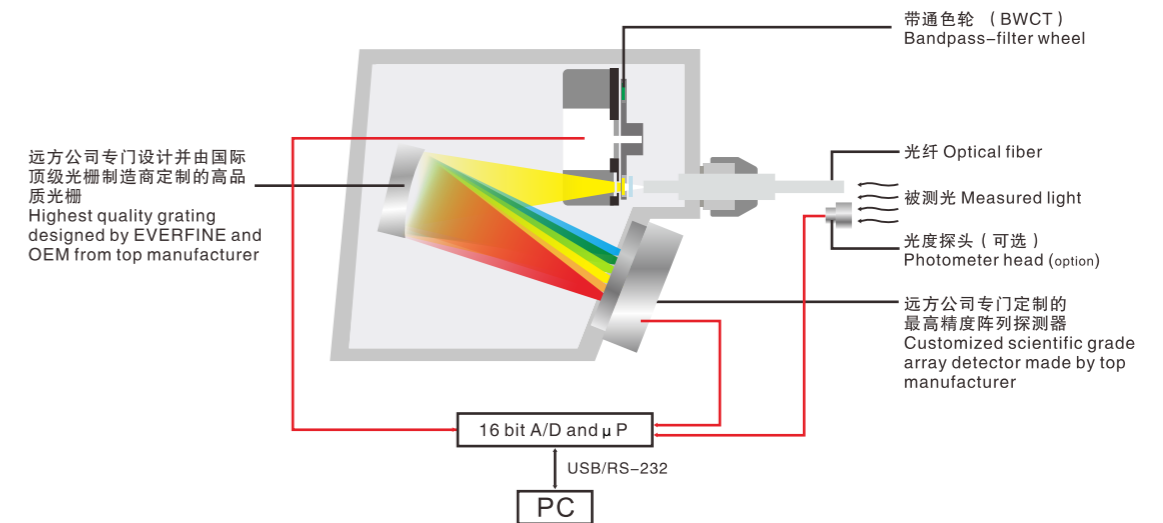


中国专利优秀奖
China Excellent Patent



国家重点新产品奖
National Key & New Product

原理图 Principle sketch



主要技术性能指标 Main specification

Model Items 技术参数	HAAS-3000	HAAS-2000				
	VIS	UV	VIS	VIR	IR1	IR2
波长范围 Spectral range	380-780nm	200~450nm	380-780nm	380~1100nm	780~1650 nm	1600~2550 nm
半峰带宽 Half peak bandwidth	2.0nm	1.0nm	2.0nm	3.0nm	9.0nm	15.0nm
波长准确度 Wavelength accuracy	0.2nm	0.1nm	0.2nm	0.2nm	0.5nm	3nm
色品坐标准确度 Accuracy of chromaticity (x,y)	0.0015 ^{*1} (标准色光下)	-	0.0015 ^{*1} (标准色光下)	0.0025 ^{*1} (标准色光下)	-	-
色品坐标重复性 Chromaticity(x,y) reproducibility	0.0003 ^{*1} (标准A光源下) 0.00015 ^{*1} x, 0.0002 ^{*1} y (恒温蓝光LED)	-	0.0003 ^{*1} (标准A光源下) 0.00015 ^{*1} x, 0.0002 ^{*1} y (恒温蓝光LED)	0.0003 ^{*1} (标准A光源下) 0.0002 ^{*1} x, 0.0003 ^{*1} y (恒温蓝光LED)	-	-
杂散光 Stray Light	$\leq 5E-5$ ^{*1}	$\leq 1E-3$ ^{*1}	$\leq 5E-5$ ^{*1}	可见波段: $\leq 5E-5$ ^{*1}	$\leq 1E-3$ ^{*1}	$\leq 1E-3$ ^{*1}
测量积分时间 integration time	9ms~60s	9ms~60s	9ms~60s	9ms~60s	20ms~10s	1ms~60ms

*1 应用BWCT技术 BCWT is applied

SPSR-2030 超纯分光光谱辐射测量系统

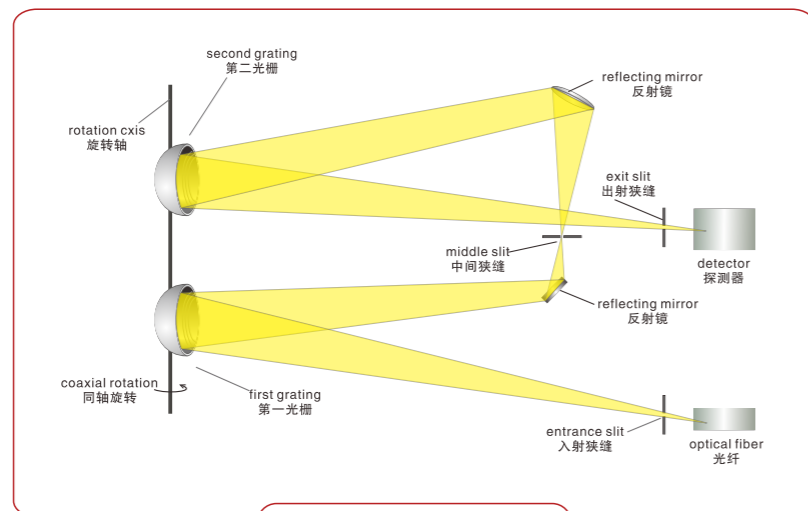
SPSR-2030 Super Pure Spectral Radiation Scanning Analyzer

SPSR-2030 系统采用双单色仪结构，可实现200-3000nm超纯超细全光谱扫描，用于光谱分布、波长、辐射功率等测试。杂散光极低、测试波段范围宽，测量精度高，SPSR-2030 不仅可用于光生物安全全波段扫描测试分析，还可以用于质检计量机构，尖端科学研究等领域的光谱辐射分析。

SPSR-2030 is a double monochromator system, which can realize ultrapure and ultrafine full-spectrum scanning of 200-3000nm, with ultra low stray light. It can be applied not only for full-spectrum measurement of photobiological safety for optical radiation source, but also for testing of spectral distribution, peak wavelength, radiation power etc..in QC and metrology institution.



200~3000nm 超纯超细全光谱扫描
Super Pure and Super Fine full-spectrum scanning in the range of 200-3000nm



同轴对称双单色仪技术

主要特点 Main Feature

- 实现 200~3000nm全光谱扫描
Provide 200~3000nm full spectrum scanning
- 极高的杂散光控制水平和波长精度
Extremely high wavelength accuracy and ultra low stray light
- 采用独特的同轴对称双单色仪技术，使其性能远远优于传统的单单色仪机械扫描光谱仪，且彻底消除了两个光栅的扫描同步误差。
The unique coaxial symmetrical double monochromator technology makes its performance far superior to the traditional single monochromator mechanical scanning spectrometer, and it completely eliminates the scanning synchronization error of the two gratings.

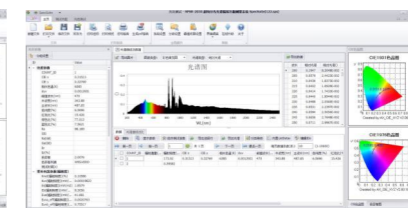
主要技术指标 Main specifications

- 光谱范围：200~3000nm
Spectral range: 200~3000nm
- 波长准确度：最高为0.1nm
Wavelength accuracy: Up to 0.1nm
- 带宽：最小为2nm
Bandwidth: minimum 2nm
- 外杂散光：紫外UVC $\leq 1 \times 10^{-8}$ ；其他波段 $\leq 1 \times 10^{-4}$
Out-of-band stray light: ultraviolet UVC $\leq 1 \times 10^{-8}$, other wavebands $\leq 1 \times 10^{-4}$

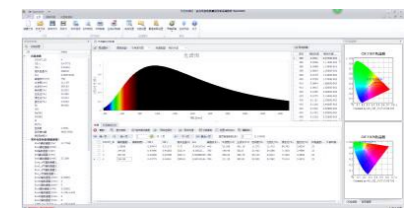
典型测试界面 Typical Testing Interface



典型LED测试界面
Typical LED test



典型氙气灯测试界面
Typical xenon lamp test



典型卤钨灯测试界面
Typical halogen tungsten lamp test

典型应用 Typical Application



PMS-2000 紫外-可见-近红外光谱分析系统 (科学级)

PMS-2000 Double-Monochromator Spectroradiometer (Scientific grade)

PMS-2000的设计采用独特的同轴对称双单色仪技术,使其性能远远优于传统的单色仪机械扫描光谱仪,且彻底消除了两个光栅的扫描同步误差,具有极高的杂散光控制水平和波长精度,非常适用于对精度要求很高的实验室或者科研机构。
The design of PMS-2000 adopts the coaxial symmetry double-monochromator technique, which leads to very high stray light control and wavelength accuracy. It is especially suitable for labs or research institutes with very high accuracy requirement.

波长范围覆盖紫外-可见波段 (200~800nm)

Spectral range covers 200-800nm

杂散光控制水平和波长精度极高的双单色仪光谱仪

Double-monochromator based Spectroradiometer with extremely high accuracy



同轴对称双单色仪技术

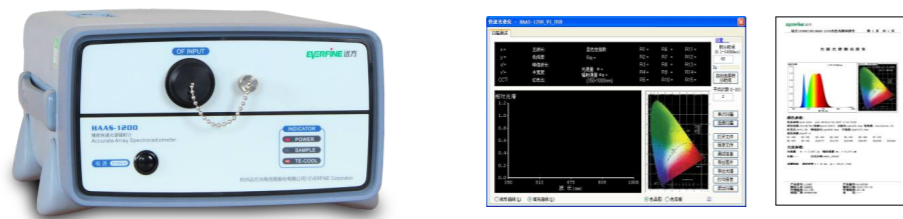
HAAS-1200 精密快速光谱辐射计 (工业级)

HAAS-1200 Accurate Array Spectroradiometer (industry grade)

HAAS-1200精密快速光谱辐射计是基于HAAS-2000/3000高精度快速光谱辐射计核心技术的工业级产品,高速、高灵敏度、高性能、高可靠性、高性价比。
HAAS-1200 is an industrial product based on the technology of HAAS-2000/3000 high accuracy array spectroradiometer, and it belongs to the family of high accuracy, high speed spectroradiometers.

全面替代普通机械扫描光谱仪

Ideal product to replace general mechanical scanning spectrometers



ATA-500/1000 LED自动温控光电分析测量系统

ATA-500/1000 Auto-Temperature LED Opto-Electronic Analyzer

系统主要用于测试并分析LED、大功率集成封装(COB)LED、LED模组等产品在不同壳温/结温下的光色电综合特性,可实时实现脉冲模式和恒流模式测量功能。

ATA-500/ATA-1000 is mainly used to measure the photometric & colorimetric & electrical characteristics of LEDs, COB LEDs or LED modules at different case/junction temperature. It can be used for steady state(DC) measurement and transient (plus) measurement.

完全满足美国能源之星IESNA LM-85标准要求

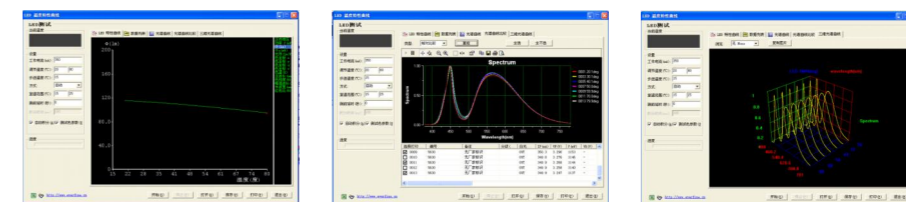
Fully meets the standard of IESNA LM-85



主要技术指标 Main specifications

- 波长范围: 380nm~780nm (特殊可定制) Spectral range: 380~780nm (customized)
- 波长准确度: 0.2nm Wavelength accuracy: 0.2nm
- 半峰带宽: 2.0nm Half peak bandwidth: 2.0nm
- 光通量测量范围: 1~20000lm (配合大小积分球) Luminous flux range: 1~20000lm (Equipped with proper integrating sphere)
- 色品坐标准确度: 0.0015 (标准色光下) Accuracy of chromaticity (x,y): 0.0015 (under standard color lights)
- 电源输出范围: 交流或直流, 按客户样品定制 Power output range: AC or DC as required
- 配置LED壳温/结温控制系统, TEC自动控温, 精度±0.5° Equipped with a temperature controller, TEC automatic temperature control, temperature accuracy: ±0.5°
- 被测LED最大功率: 100W (根据订单) The max. power of LED: 100W (Customize)
- 被测LED最大尺寸: 100mm*100mm (根据订单) The max. size of LED: 100mm*100mm (Customize)

典型测试界面 Typical Testing Interface



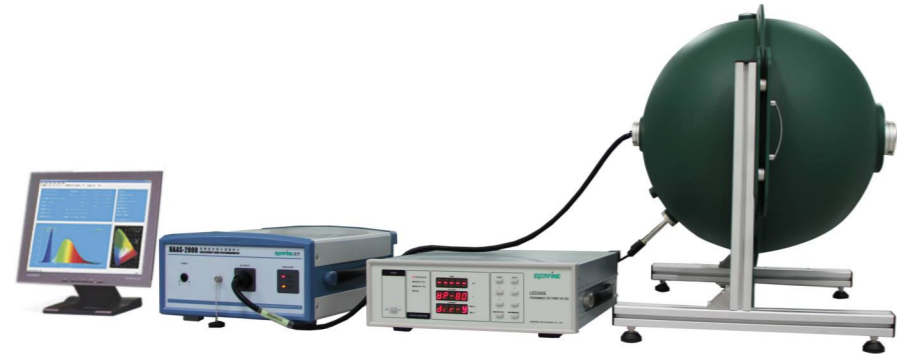
PCE 系列光光电综合测试系统

PCE Series Opto-Electronic Measurement System

▶ 单颗LED/模组光光电测试系统 Single LED/Module Opto-Electronic Measurement System

主要用于测量单颗LED相对光谱功率分布，色品坐标，主波长，峰值波长，光谱纯度，色温，显色指数，半宽度，光通量（配积分球），辐射功率，红色比，色容差等参数，满足国际照明委员会CIE对光和颜色测量要求。由于测量时间极短，系统可实现LED的瞬态特性（脉冲测量）和稳态光学特性的测量。

The measurable items are relative spectral power distribution, chromaticity coordinates, dominant wavelength, peak wavelength, purity, CCT, CRI, half-peak wavelength, luminous flux (equipped with integrating sphere), radiant power, red ratio, chromaticity deviation and etc., it conforms to the requirements of CIE.



▶ 光光电综合测试系统 Opto-Electronic Measurement System

主要用于测量LED背光源、LED模块、LED灯条等的相对光谱功率分布，色品坐标，主波长，峰值波长，光谱纯度，色温，显色指数，半宽度，光通量（配积分球），辐射功率，红色比，色容差等参数，完全满足国际照明委员会CIE对光和颜色测量要求。

Measurable items of the module as LED backlight are relative spectral power distribution, chromaticity coordinates, dominant wavelength, peak wavelength, purity, CCT, CRI, half-peak wavelength, luminous flux (equipped with integrating sphere), radiant power, red ratio, chromaticity deviation and etc., it conforms to the requirements of CIE.

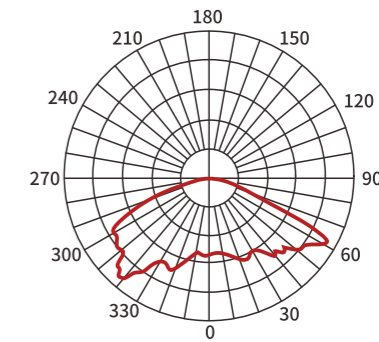


GO-R5000 全空间快速分布光度计

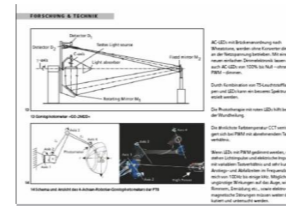
GO-R5000 Full-Field Speed Goniophotometer

世界功能最强的高精度快速分布光度计

Multi Goniophotometers in 1 facility



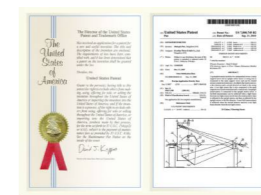
- 众多美国能源之星认证NVLAP认可实验室成熟应用 Widely applied in NVLAP Accredited Labs
- 国家863计划研究成果 National 863 Program Research Achievement
- 美国及德国发明专利、中国专利优秀奖 US, Germany and China patents granted
- 完全满足CIE S025、CIE 239、美国IESNA LM-79和中国GB/T 24824等标准 Fully meets the standards of CIE S025, IESNA LM-79 and GB/T 24824



德国权威专业杂志《LICHT》报道
Germany periodical <LICHT> (11/12, 2009)



中国专利优秀奖
China Excellent Patent



美国发明专利
US patent granted



德国发明专利
Germany Patent

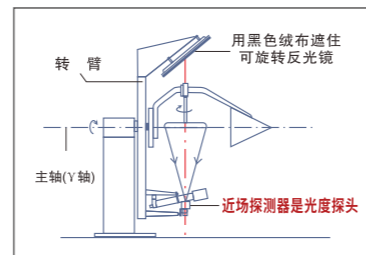
GO-R5000全空间快速分布光度计采用了多场合成套的先进分布光度计理论和探测器互校理论，以及更为成熟的技术和工艺。具有灵活的配置方案，测试速度快、精度高，一台分布光度计能实现多台不同功能的高性能的分布光度计。
GO-R5000 Full-Field Speed Goniophotometer adopts a set of advanced goniophotometer theory and detector mutual corrections, as well as more mature technology and craftsmanship. It has a flexible configuration scheme, fast test speed and high accuracy. It can realize multiple high-performance goniophotometer with different functions.

近距离测量 Short distance measurement

近场探测器直接接收来自被测光源的光束，不经过任何反射镜，测量距离为3米左右（根据订单）。近场探测器可以为光度探头、高精度快速光谱辐射计、成像亮度计，以实现不同的功能。
Near-field detector directly receives light from the light source without passing through any mirror, the typical measurement distance is around 3m. Near-field detector can be a photometer head or spectroradiometer or imaging luminance meter.

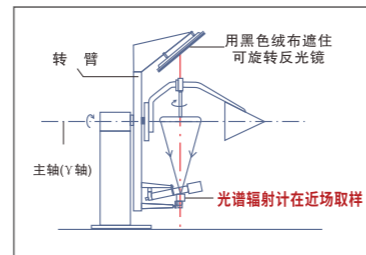
紧凑型分布光度计 Compact goniophotometer

- 近场探测器是光度探头；
- 最准确方法（照度积分法）测量各种尺寸光源和灯具的总光通。
照度积分法是多数发达国家建立总光通量国家基准的方法
- 测量小尺寸及发光较弱的光源或灯具的光强分布
- Near-field Detector is a photometer head
- The best way to measure total luminous flux of various size sources by illuminance integrating method, which is also the method for many developed countries to setup their national scale of luminous flux
- The best way to measure the luminous intensity of small or weak sources



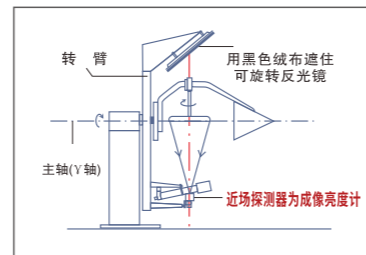
分布光谱辐射计 Goniospectroradiometer

- 近场探测器是高精度快速光谱辐射计；
- 测量光源的空间光谱分布，准确得到光源的平均颜色特性及空间颜色不均匀性
- Near-field detector is a high accuracy array spectroradiometer
- Measure the spatial spectral distribution, and obtain the averaged and non-uniformity of colorimetric quantities



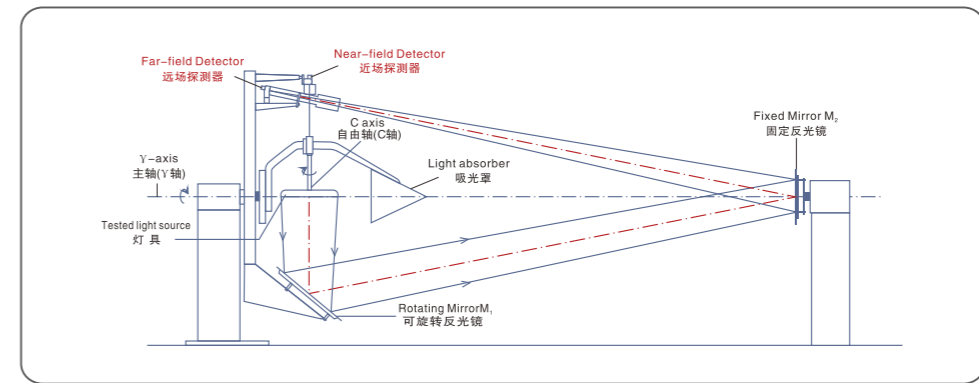
近场分布光度计 Near-field goniophotometer

- 近场探测器是成像亮度计
- 测量被测光源的空间亮度分布
- 建立被测光源的光线模型，用于更精准的光学设计
- Near-field detector is an imaging luminance meter
- Measure the spatial luminance distribution of light sources
- Setup "ray data file" of the light sources for more accurate lighting design



远距离测量 Long distance measurement

远场探测器接收经旋转反射镜M1和固定反射镜M2两次反射的光束，实现远场测量，典型测量距离为30米。适用于测量大尺寸的光源或灯具的光强分布，如投光灯，室内灯和道路灯等。
Far-field Detector receives the light after twice reflection by Rotation Mirror M1 and Fixed Mirror M2, it realizes the far-field measurement, the typical distance is around 30m. And the dark room space is not enlarged accordingly. It can be applied for the intensity measurement of large size sources with narrow or wide beam angle sources, e.g. flood lights, indoor lights, road light, etc.

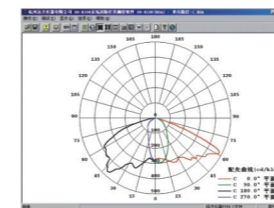


全空间光度 Full-field goniophotometry

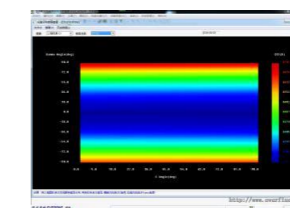
由于系统中可配置多个探测器，通过专业软件，可实现不同探测器的全空间互校以进一步提高测量精度。
As there are multi detectors configured in the system, by the special software, it can realize mutual corrections between detectors to further increase the accuracy.

丰富强大的测试功能 Versatile software

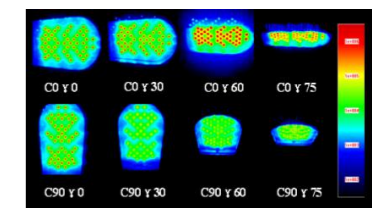
具有以下功能：光强数据、有效发光角、光束角、光强分布图、区域光通量（表）、灯具效率、总光通量、亮度分布、利用系数、亮度限制曲线、眩光等级、最大允许距高比、灯具概算曲线、UGR统一眩光值、等照度图、等光强图、有效平均照度曲线、空间颜色分布、空间亮度分布等。
Luminous intensity data, luminous intensity distribution curve, efficient luminescence angle, spread angle, zonal luminous flux, luminaires efficiency, total luminous flux, luminance distribution, available average illuminance curve, coefficient of utilization, luminance limitation curves, glare, maximum ratio of distance to height, iso-illuminance diagrams, curves of luminaires vs lighting area, Isocandela diagrams, spatial color distribution, spatial luminance distribution etc.



光强分布
Luminous Intensity Distribution



空间颜色分布
Spatial Color Distribution

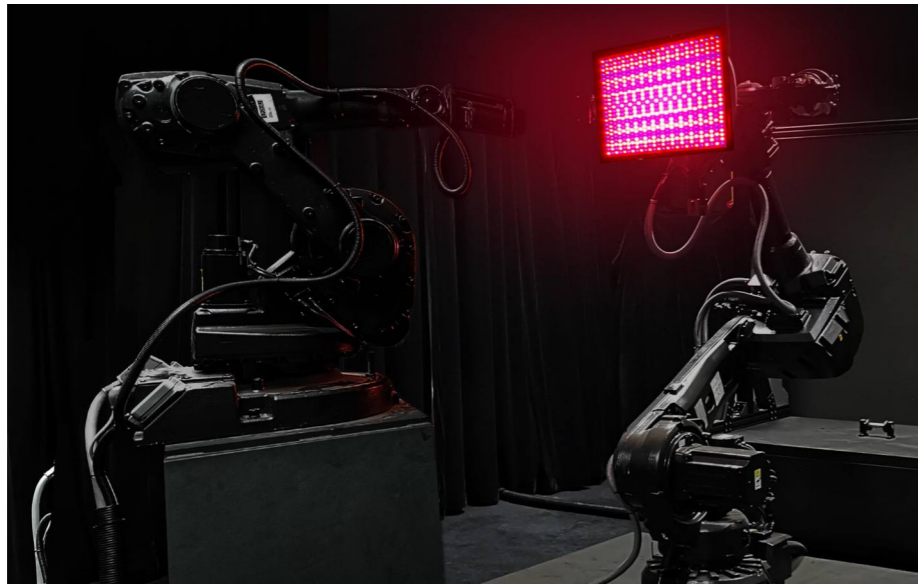


空间亮度分布
Spatial Luminance Distribution

RGO-60T 机器人分布光度计

RGO-60T Robot Goniophotometer

RGO-60T机器人分布光度计是一款以精密机器人为核心的高度自动化的灯具配光性能测试系统，可实现CIE标准A- α ，B- β 和C- γ 测量方案，主要用于各类室内灯具、道路灯具以及投光灯具等的配光性能测试以及光源总光通量的测试。
RGO-60T Robot Goniophotometer is a highly automated system for light distribution measurement of various luminaires. Based on industrial robot technology, it can realize all CIE A- α , B- β , C- γ measurement solutions, which make it be widely used to test light distribution and total luminous flux for various indoor luminaires, road luminaires, spot lights etc..



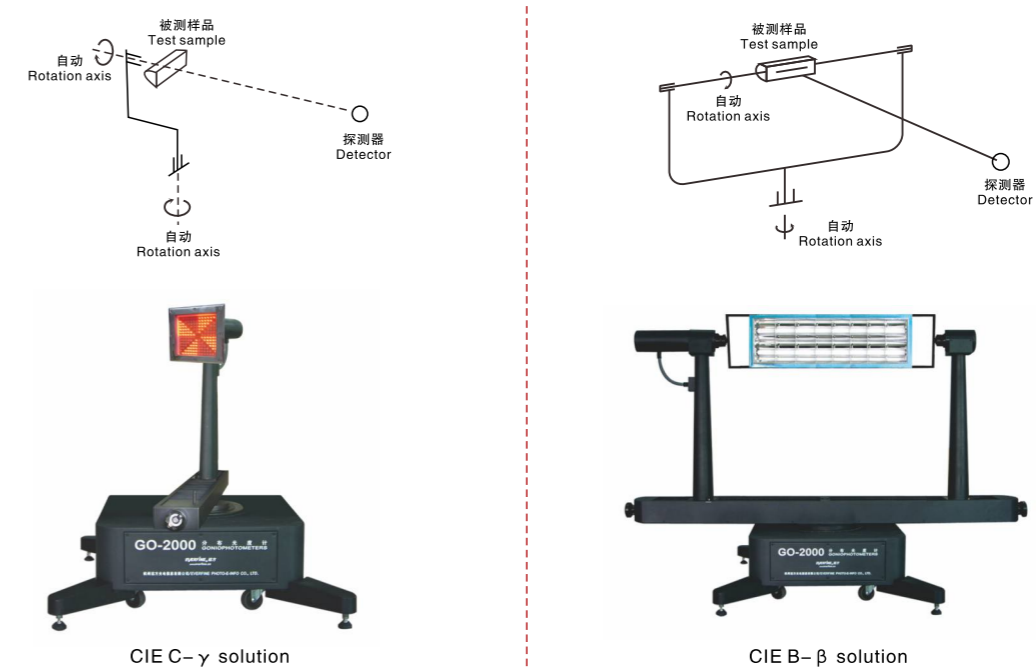
主要技术指标 Main specifications

- 可测试项目：光强分布曲线、光强数据、有效发光角、光束角、等光强图、等照度图、总光通量、区域光通量(表)、上射光通量、下射光通量、灯具效率、利用系数、最大允许距高比、概率曲线、亮度限制曲线、眩光等级、UGR统一眩光值、电压、电流、功率、功率因数等；
Measurable Items: Luminous intensity distribution curve, Luminous intensity data, efficient luminescence angle, spread angle, isocandela diagrams, iso-illuminance diagrams, total luminous flux, zonal luminous flux, upper luminous flux, lower luminous flux, luminaires efficiency, coefficient of utilization, maximum ratio of distance to height, curves of luminaires vs lighting area, luminance curves, glare rating, UGR, voltage, current, power, power factor, etc.
- 灯具自动旋转范围 Auto rotation range of luminaires: 0~360° (C轴 C axis); -180° ~+180° (γ 轴 γ axis)
0~90° (B轴 B axis); -90° ~+90° (β 轴 β axis)
0~90° (A轴 A axis); -90° ~+90° (α 轴 α axis)
- 灯具最大重量 Maximum weight of test luminaire: $\leq 40\text{kg}$ (含夹具 including fixture)
- 高精度光度探测器，严格 $V(\lambda)$ 修正， $f_1' \leq 1.5\%$ 或 $f_1' \leq 3\%$ 。
Fine $V(\lambda)$ corrected photometer head, CLASS L or CLASS A.
- 光度探测范围 Photometry range: 0.0001lx~200klx

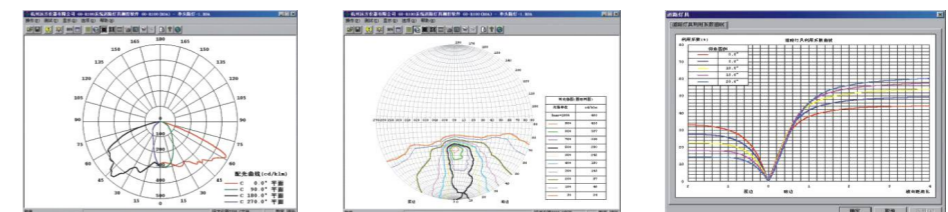
GO-2000 卧式分布光度计

GO-2000 Goniophotometer

GO-2000卧式分布光度计属旋转灯具式分布光度计，采用固定探测器、旋转灯具的测量方式，可实现CIE标准 B- β 和C- γ 测量方案。也可实现灯具的空间光强分布(配光性能)、空间颜色分布、平均颜色特性及空间颜色不均匀性测量。
GO-2000 is a goniophotometer with facility for turning the light source in CIE B- β or C- γ coordinate system. Besides luminous intensity distribution and luminous flux, GO-2000 can also measure spatial light distribution, spatial color distribution of lamps and luminaries.



典型测试界面 Typical Interface



GO-NR1000 近场分布光度计

GO-NR1000 Near-Field Goniophotometer

GO-NR1000近场分布光度计适用于小型光源（如LED等）的近场光度测量，能够得到光源的亮度分布，并通过算法建立光线模型，得到总光通量、空间任意平面的照度分布以及远场光强分布等。系统输出的光线模型能与Tracepro等光学软件相配合，更方便、准确地进行照明产品等的二次光学设计和研发。

GO-NR1000 is applicable for near-field photometric measurement of small size sources, and can obtain the luminance distribution. The total luminous flux, illuminance distribution of every planes, and far-field luminous intensity distribution can be acquired by establishing the ray model of light via algorithm. The combination of output ray model and optical software, such as Tracepro, makes it more convenient and accurate to do the secondary optical design and development.

近场光度分布测量，建立光线模型

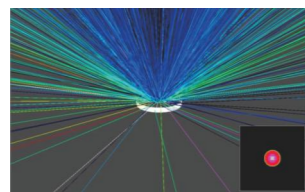
Near-field photometric measurement, establishing the ray model of light via algorithm

为光源的二次光学设计和研发提供准确的依据

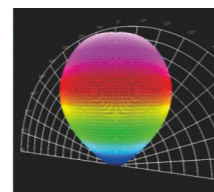
Makes it more convenient and accurate to do the secondary optical design and development



封装LED LED package



单颗LED光线分布和亮度图像
Ray Distribution & Luminance Image of a single LED



软件计算得到的LED光强分布
Luminous Intensity Distribution of LED Computed by Software

主要技术指标 Main specifications

- 水平轴（ γ 轴）转动范围 Rotating range of horizontal axis (γ axis) : $-118^\circ \sim +118^\circ$
- 竖直轴（C轴）转动范围 Rotating range of vertical axis (C axis) : $0^\circ \sim 360^\circ$
- 转动角度精度 Angle accuracy of rotation: $\pm 0.1^\circ$
- 被测光源发光面尺寸 Size of emitting area of test source: $\Phi 1\text{mm} \sim \Phi 30\text{mm}$
- 成像亮度计像素 Pixel of imaging luminance meter: 不少于百万像素 no less than 1 million
- 亮度测量范围 Measurement range of luminance: $1\text{mcd}/\text{m}^2 \sim 20000\text{kcd}/\text{m}^2$

GO-SPEX500 空间光谱辐射计

GO-SPEX500 Goniospectroradiometer

独立暗箱设计，在普通办公照明条件下无需暗室即可完成测试。可用于小型光源或灯具的空间光强分布（配光性能）、光强数据、光束角、总光通量、空间颜色分布、平均颜色及颜色不均匀性准确测试。精度高、外形美光、集成度高、应用广泛。

Adopt by the special darkroom-integrated design, the system can accurately measure the spatial characteristics of the lamps and luminaries including spatial light distribution, spatial color distribution, and luminous flux which meets the requirements of CIE S025, CIE127 and CIE239.



GO-SPEX100 空间光谱辐射度计

GO-SPEX100 Goniospectroradiometer

采用独特的暗箱设计，专用于LED封装（包括COB）的空间光强分布（配光性能）、空间颜色分布、平均颜色及颜色不均匀性、总光通量准确测试。按照CIE-127及TC2-74标准要求设计。

Adopt by the special darkroom-integrated design, the system dedicated to LED package products, system test parameters includes: spatial luminance intensity distribution, spatial color distribution, and luminous flux which meets the requirements of CIE127 and TC2-74.

LED封装配光及空间颜色测试完美解决方案

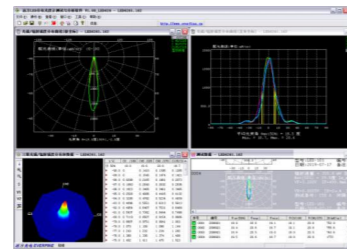
Perfect solution of luminance intensity and spatial color distribution test



LED626/620 单颗LED分布光度计

LED626/620 Goniophotometer for LEDs

按照CIE pub.No.127条件A或条件B，专用于LED配光性能的测试。可实现LED的光强分布曲线、光强、光强随正向电流变化曲线、正向电流随正向电压变化曲线，光强随时间变化曲线，及光束角、光通量、电性能等参数的测试。
Designed according to CIE pub. No.127, it is especially used to measure the luminous intensity distribution, luminous intensity, beam angle, and electrical characteristics of LEDs.



ALI-2000 LED光强高精度测试系统

ALI-2000 LED Light & Radiation Measurement System

ALI-2000 LED光强高精度测试系统可测试封装LED的法向光强及光谱、波长、色坐标、显色指数、色容差等参数，可适用于任意色光的LED产品，无探测器匹配误差，测试精度高。可作为单颗LED光强和色参数的基准级测试系统。
ALI-2000 LED Light & Radiation Measurement System can test the normal light intensity and spectrum, wavelength, color coordinate, color rendering index, color tolerance and other parameters of packaged LEDs. It can be applied to LEDs of various colors, without the matching error of the detector, and the test is very accurate. It can be used as a benchmark test system for the luminance intensity and color parameters of a single LED.



GO-HD6 交通及车用灯具配光性能测试系统

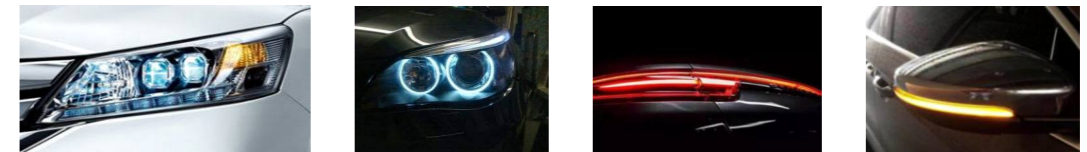
GO-HD6 Goniophotometer for Automotive and Singal Lights

GO-HD6是一款高度自动化的交通及车用灯具配光性能测试系统，可广泛应用于道路交通信号灯、汽车灯、摩托车灯、船用灯、农用车灯、逆反射器、逆反射材料等质量评定和品质控制，满足国标、SAE、JIS、ECE等相关标准测试要求。
GO-HD6, a supermatic goniophotometer for automotive and signal lights, which can be widely used in road traffic lights, signal lights, automotive lights, motorcycle lights, marine lights, agricultural lights, retroreflectors, retroreflective materials and etc., to achieve quality assessment and quality control. It fully meets the testing requirements of relevant national standards such as SAE, JIS, ECE and etc.

精度高：0.01°转角精度
High Accuracy of Rotating Angle: 0.01°

测试速度快：比同类设备快至少4倍
Fast Test Speed: 4 Times faster than Similar Devices

承载能力强：高达75kg
Maximum Sample Weight: 75kg



主要技术指标 Main specifications

- 灯具转动范围：±180°（左右）、±120°（俯仰） Rotation range of luminaires: ±180° (left-right), ±120° (up-down)
- 角度精度 Accuracy of angle: 0.01°（最高 Best）
- 开放式软件，用户可自行编辑以符合不同标准，便于升级换代
Open software designed to meet different software, and easy to be upgraded
- 光度探测范围 Photometry range: 0.0001lx ~ 200000lx
- 高精度恒温光度探测器：严格V(λ)修正， $f_1' \leq 1.5\%$ 或 $f_1' \leq 3\%$ ，前置放大
Pre-amplified and constant-temperated photometer head, CLASS L ($f_1' < 1.5\%$) or CLASS A ($f_1' < 3.0\%$)

TRA-300 LED热阻结构分析系统

TRA-300 LED Thermal Resistance Structure Analyzer

用于LED封装产品的热阻、结温及分层热阻结构的精密分析；可以获得LED精细的热阻结构，从而客观评价LED封装产品的散热质量和热管理水平，为LED的散热设计提供最好的验证。

It is used to test and analyze the thermal resistance, junction temperature and layered thermal resistance structure of LED package products. The obtained fine LED thermal resistance structure can objectively evaluate the heat dissipation quality and thermal management level of LED package products, so as to provide the best verification service for LED heat dissipation design.



中国及美国发明专利授权

Patents technologies

具备精细结构函数分析功能

Capable of analyzing thermal structure



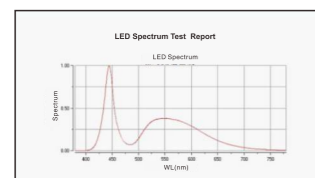
主要参考标准 Main reference standards

- EIA/JESD 51 Methodology for the Thermal Measurement of Component Packages
- MIL-STD-750D Thermal Impedance (Response) Testing of Diodes
- SJ 20788 半导体二极管热阻测试方法
- QB/T 4057 普通照明用发光二极管性能要求

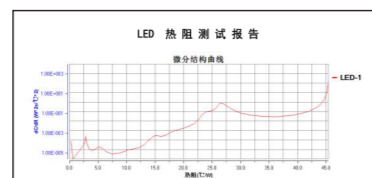
主要测试功能 Measuring functions

TRA-300具备热、光、色、电的全面测试功能，可精确测得热阻、结温、光功率、电压、电流等参数，并绘制伏安特性曲线、结温-温度曲线，结温-时间曲线、积分结构曲线、微分结构曲线和相对光谱曲线等。

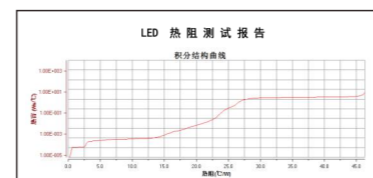
TRA-300 can measure the following quantities and curves: K factor, junction temperature, LED electrical parameters, I-V curve, junction temperature-time curve and spectra etc.



光谱及辐射功率测试
LED spectrum curve



积分结构曲线
Integral construction curve



微分结构曲线
Differential structure function

LT-200A LED (单颗和模组) 加速老化及寿命测试系统

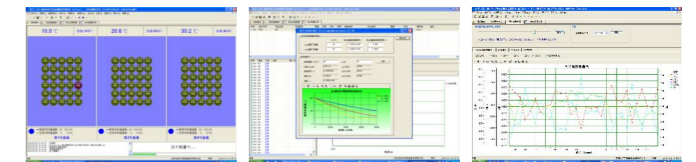
LT-200A Aging-Life Test system for LEDs

用于LED封装产品、LED模组、LED阵列的常规老化、加速老化、光通维持特性试验、颜色漂移试验、温度特性试验、寿命试验等，并具备LED寿命推算及预估功能。完全实时的在线光电色参数自动测试。

The system is widely used for normal /accelerated aging, lumen maintenance measuring, chromaticity shift measuring, lifetime evaluation and temperature characteristic testing for LED packages, arrays and modules. The extrapolation of lifetime by programmable models is also available to estimate the lifetime of LEDs.

多家检测实验室已使用老化寿命测试系统通过美国NVLAP关于LM-80的认可

Applied in NVLAP accredited Lab



LT-500A/300A LED (灯和灯具) 加速老化及寿命测试系统

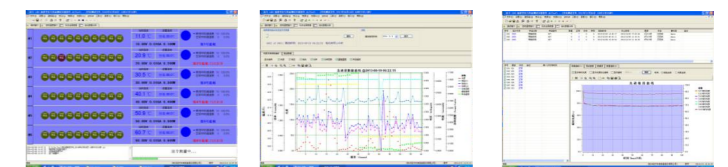
LT-500A/300A Aging-Life Test system for LED Luminaires

用于LED灯和灯具、LED模组、LED阵列的常规老化、加速老化、光通维持特性试验、颜色漂移试验、和寿命试验，并具备LED寿命推算及预估功能。完全实时的在线光电参数自动测试，可测量光色电参数随温度的变化函数关系。

The system is widely used for normal /accelerated aging, lumen maintenance measuring, chromaticity shift measuring, lifetime evaluation and temperature characteristic testing for LED luminaires, arrays, and modules. The extrapolation of lifetime by programmable models is also available to estimate the lifetime of LED luminaires.

多家检测实验室已使用老化寿命测试系统通过美国NVLAP关于LM-82和LM-84的认可

Applied in NVLAP accredited Lab



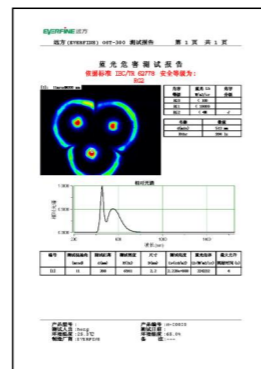
LT-500A具有独特的六温区设计，不同温度、不同燃点姿态下的试验可同时进行，极大提高效率。
Six chambers, different temperature test at the same time, greatly shorten the test time.

OST-500 光辐射安全测定系统

OST-500 Optical Radiation Test System

OST-500是OST-300光辐射安全测定系统的升级产品，系统满足IEC/EN 62471/CIE S009, IEC/TR 62778, GB/T 20145, IEC/EN 60598 Annex P., IEC/EN 60432, IEC/EN 60335, GB/T30117, GB 7000.1, 2009/125/EC欧盟指令等标准要求。系统配备精密自动双轴转台，可自动寻找和获取最大辐射位置，并在最大辐射位置自动测量各种灯和灯系统（LED产品、紫外灯、照明光源和灯具等）的光生物危害值，进行安全等级分类。

OST-500 meets the requirements of standard IEC/EN 62471/CIE S009, IEC/TR 62778, GB/T 20145, IEC/EN 60598 Annex P., IEC/EN 60432, IEC/EN 60335, GB/T30117, GB 7000.1, 2009/125/EC directives etc. This system equipped with a precise&automatic double-axis goniometer, it can search for the direction which has the max luminous intensity automatically, and measure the effective radiation hazard exposure, and photometric & colorimetric parameters of lamps and lamp systems in this direction.



主要特点 Main characteristics

- 精确测定 (200~3000) nm全波段光辐射危害 Precisely measure the radiation in wavelength range from 200~3000nm
- 自动识别和定位最大辐射位置 Automatically identify and position the maximum accessible optical emission
- 以专利技术为核心，高精度、高可靠性、高自动化程度
Adopting patent technologies, it features high accuracy, high reliability and full automatization
- 满足CIE、IEC、EN、ECE及GB等国际国内光生物安全测量标准要求
Meet the requirements of Standard CIE, IEC, EN, ECE, GB and etc..

典型应用 Typical Application



照明光源、脉冲光源、激光产品、玩具、显示器等产品的光辐射安全
Optical Radiation Safety measurement for pulse lamps, laser lights and flash lights etc.

EST-200 玩具辐射安全测试系统

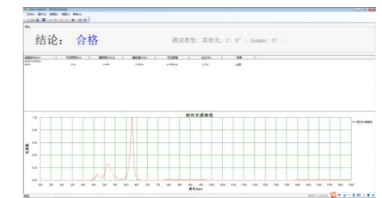
EST-200 Emission Safety Test System for Toys

用于测试发光类玩具产品的辐射强度、辐照度、光色扩展角、峰值波长、主波长、带宽等，系统根据测试的光度/辐射度数据自动计算电玩具的辐射安全等级，自动化程度高，测量重复性好，测量结果更加准确。

The system is used to test the radiation intensity, irradiance, light color expansion angle, peak wavelength, dominant wavelength, bandwidth, etc. of luminous toy products. The system automatically calculates the radiation safety level and degree of automation of electric toys based on the tested luminosity/radiance data High, the measurement repeatability is good, and the measurement result is more accurate.



众多检测实验室已获国内首批
IEC62115-2017资质认可
The first batch of IEC62115-2017
qualification accreditation in China



LST-200 激光光生物安全测试系统

LST-200 Laser Safety Test System

用于测量激光光源的光谱功率分布、辐射功率、辐射能量、表观光源尺寸、脉冲能量、脉冲频率等参数，并根据IEC60825.1对激光光源进行安全等级分类。可非常便利的计算出相关的可达发射极限并自动对激光产品进行安全等级分类。

The system is used to measure the spectral power distribution, radiant power, radiant energy, surface size, pulse energy, pulse frequency and other parameters of the laser light source, and classifies the laser light source according to IEC60825.1. It is very convenient to calculate the relevant reachable emission limit and automatically classify the safety level of laser products.



适用各种连续光源、单脉冲光源
和多脉冲光源
Suitable for various continuous and
pulsed light sources

SRS-200A 视网膜蓝光危害测试仪

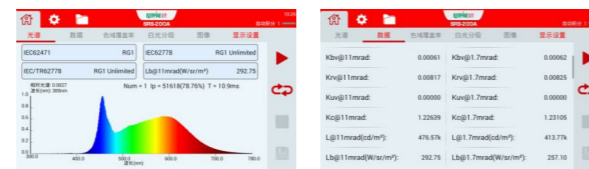
SRS-200A Spectral Radiation Safety Test System

SRS-200A是一款便携式蓝光危害的测量设备，在保留实验室光谱辐亮度辐射安全测试系统主要功能的基础上，充分考虑其便携性与可操作性，在一定程度上弥补了现场测量光辐射安全的缺口。满足IEC 62471、IEC/TR 62778、GB7000.1等光辐射安全测试标准的要求，可广泛应用于照明工程、光源和发光器件、显示器、交通信号等领域的照明检测。

SRS-200A is a new generation of portable photo-biological safety test and evaluation equipment. Based on the main functions of the laboratory spectral radiation safety test system, the convenience and operability of test are fully considered. To some extent, the analyzer makes up for on site measurement insufficiency. Fully meets IEC62471, IEC/TR 62778, GB7000.1 and etc standard. It can widely used in lighting projects, lighting source, luminescent devices, display screen, traffic signal and etc.



便携式蓝光危害测试评估系统
Portable Blue Light Hazard Evaluation System



主要特点 Main characteristics

- 测量功能强大，可在现场实现多种光生物安全参数的测量分析。
Realize analysis of multi photobiological hazard.
- 内置满足光辐射安全蓝光危害测量标准的三个测量视场。
Built in three measurement fields that fully meet the blue light hazard measurement standards.
- 强大的数据处理分析能力，并依据相应标准和测试结果对测试灯或灯具进行分级。
Powerful analysis software classifies the risk group for test lamp/luminaires automatically in compliance with relevant standards.
- TFT液晶和触摸屏显示界面，既适合实验室，也适合野外现场测试。
TFT touching display is convenient for both laboratory and field measurement.

主要测量功能 Main measurable items

- 蓝光危害等级 (IEC62471、IEC/TR 62778)，司辰节律因子 Blue light hazard level, Citopic rhythm factor
- 光谱辐亮度曲线、符合光辐射安全要求的视场角内的辐亮度值
Spectral radiance curve, radiance value in the field of view that meets the requirements of optical radiation safety
- 蓝光光谱处理分析、近紫外光谱处理分析等
Blue light spectrum analysis, near-UV spectrum analysis, etc.
- 视网膜蓝光危害系数 $K_{B,V}$ ，视网膜蓝光危害加权辐亮度
Retinal blue light hazard efficacy of luminous radiation $K_{B,V}$, Retinal blue light hazard weighted radiance
- 移动终端低蓝光显示器件测试要求，蓝光辐射亮度，蓝光加权辐射亮度和蓝光加权辐亮度比
Blue light radiance, blue light weighted radiance and blue light weighted radiance ratio

SPIC-300 光谱彩色照度计

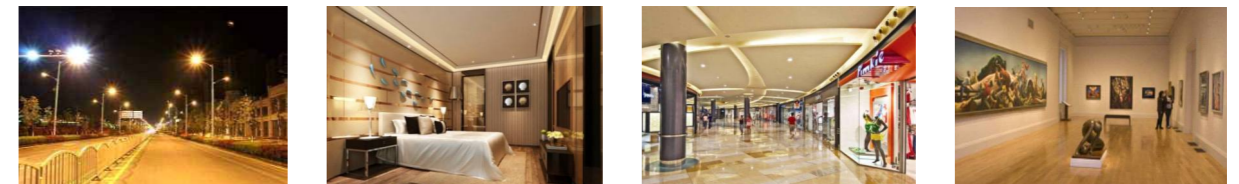
SPIC-300 Spectral Irradiance Colorimeter

现场光谱测量新时代
Field Spectral Measurement in New Era



- 照度 Illuminance
- 相对光谱功率分布 The Relative Spectral Power Distribution $P(\lambda)$
- 光谱辐照度 Spectral Irradiance $E(\lambda)$
- CIE 1931, 1960及1976色坐标 Chromaticity in CIE 1931, 1960, 1976
- 相关色温 Correlated Color Temperature (λ) (CCT)
- 显色指数 Color Rendering Index R_a, R_i ($i=1-15$)
- IES等效照度 IES EVE Illuminance
- 色彩逼真度 R_i 和色彩饱和度 R_{90}
- R_i, R_{90} as per IES TM-30
- 电视照明一致性指数TLCI和电视灯具匹配系数TLMF (选项)
TLCI and TLMF as per EBU standards (option)

典型应用 Typical Application



测试界面 Interface



SFIM-400 光谱闪烁照度计

SFIM-400 Spectral Flickering Irradiance Meter



手持式光谱和频闪测试
Spectra & flicker in hand

- 照度 Illuminance
- 相对光谱功率分布 The Relative Spectral Power Distribution P(λ)
- 光谱辐照度 Spectral Irradiance E(λ)
- CIE 1931, 1960及1976色坐标 Chromaticity in CIE 1931, 1960, 1976
- 相关色温 Correlated Color Temperature(λ)(CCT)
- 显色指数 Color Rendering Index R_a, R_i ($i=1\sim 15$)
- IES等效照度 IES EVE Illuminance
- 色彩逼真度 R_r 和色彩饱和度 R_g, R_b as per IES TM-30
- 电视照明一致性指数TLCI和电视灯具匹配系数TLMF (选项) TLCI and TLMF as per EBU standards (option)
- 闪烁百分比 Flicker Percentage
- 闪烁指数 Flicker Index
- 调制深度 Modulation Depth
- 闪烁频率 Flicker Frequency
- FFT频谱 FFT Frequency Spectrum

SIS-20 光谱辐照传感器

SIS-20 Spectral Irradiance Sensor

Smart Lighting by Smart Measuring



- 光谱功率分布 Spectral power distribution (SPD)
- 照度和辐照度 Illuminance (E) and Irradiance (E_e)
- 1931、1960和1976色品坐标 Chromaticity coordinates (x,y) (u',v')
- 相关色温 Correlated Color Temperature (CCT)
- 显色指数 Color Rendering Indices (CRI), R_a and $R_i\sim R_{15}$
- 色彩逼真度 R_r 和色彩饱和度 R_g, R_b as per IES TM-30
- IES等效照度 IES EVE illuminance
- 更多... And more is possible

光源频闪测试系统

Light Flickering Test System

LFA-3000是在原有LFA-2000光源频闪测量仪基础上推出的新一代频闪测量设备，无论是在硬件配置上还是软件功能上都有着卓越的性能表现。LFA-3000结合最新的标准和技术规范，能够提供最为齐全的频闪评价参数，并能自动根据标准判别频闪安全等级。

LFA-3000 Light Flickering Analyzer is a new generation flickering analyzer designed by EVERFINE on the basis of LFA-2000. It conforms with the latest relevant standards and technical reports. With a remarkable performance in both the hardware configuration and the software functionality, LFA-3000 provides all kinds of flicker index according to international standards and determine the flicker risk rate according.

采样速率最高达100kHz，满足现有各种标准要求

The maximum sampling rate up to 100kHz

极宽的动态范围，适用于各种调光等级的测量

Wide dynamic range, it is suitable for the measurement of various dimming levels

可完成多种条件下自动频闪测量，
测量参数最为齐全的报告

It can automatically perform stroboscopic measurement under various conditions and generate a report with complete parameters



SWG-3000 是专为照明产品的频闪测量而设计的电源，满足ERP新规和IEC 61547标准中对电源的要求。SWG-3000 is a power supply specially designed for stroboscopic measurement of lighting products. It meets the requirements of the new ERP regulations and the IEC 61547 standard.



可测量参数 Measurement items

- 光闪烁的时域和频域分析图 Time domain and frequency domain analysis chart of light flickering
- 基准频率、闪烁百分比 (PF)、闪烁指数 (FI)、调制深度(MD)
Fundamental frequency, Percent of Flicker (PF), Flicker Index (FI) , Modulation Depth (MD)
- 调制百分比 (符合CEC法规) The Percentage of Modulation (as per regulation of California CEC)
- Pst^{LM} (符合IEC标准) Pst^{LM} (as per IEC 61547)
- Mp (符合ASSIST推荐) Mp (as per ASSIST method)
- SVM (选项) SVM (as per CIE, Option)
- 根据IEEE标准，对频闪危害进行分级 The software can determine the flickering risk rating according to IEEE

CX系列成像（彩色）亮度计

CX Series Imaging Luminance (Color) Meter

CX系列成像（彩色）亮度计精确匹配CIE1931的配色函数，可实现二维亮度及色度的测量，主要用于的亮度、色度、亮度均匀性、色度均匀性等测量，具有成像质量好、精度高、测量速度快、操作方便等优点，可广泛应用于景观照明、道路照明、应急照明、面板灯、室内照明等应用领域。

CX adopts XYZ filters to closely match CIE 1931 color-matching functions. It can realize 2D luminance and color measurements with high speed and high accuracy, so that it can be widely applied to measure luminance, chromaticity coordinates, luminance/color uniformity and image analysis for lighting engineering, LED displays, vehicle display, FPD and etc.



一次取样，亮度色度均匀性的快速分析

Sampling one time, fast analysis of luminance and chromaticity uniformity

测试动态范围宽

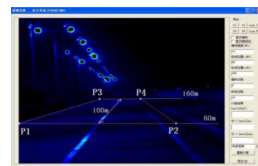
Wide dynamic range

亮度及色度重复性高

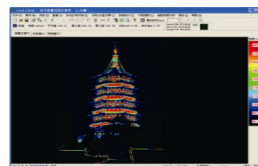
High repeatability of luminance and chromaticity

主要特点 Main Characteristics

- 可选单次曝光、多重曝光等采样方式，确保不同亮度等级的测试对象都可获得清晰的图像质量。
The system can select single exposure, multiple exposure and other sampling methods.
- 软件支持多种显示模式，轻松直观地观察亮度和色度的不均匀性。
The software supports a variety of display modes to easily visually observe the in homogeneity of luminance and color.
- 测试数据、图表、图像可选择EXCEL、PDF格式导出，方便用户后续分析。
Test data, charts, and images can be exported in EXCEL or PDF format for further analysis.



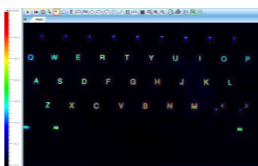
路面亮度均匀性
Luminance uniformity of road



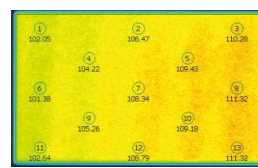
景观照明测量
Test for Landscape lighting



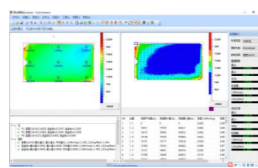
指示按键亮度均匀性测试
Luminance uniformity test for keyboard



键盘亮色均匀性分析
Luminance&color uniformity analysis of keyboard



平板灯具亮度均匀性
Luminance uniformity of flat panel



显示器亮色均匀性分析
Luminance & color uniformity analysis



应急灯亮度均匀性测试
Luminance uniformity test for emergency lamp



多点亮度色度均匀性的模板导入
Template import of multi-point luminance & color uniformity

LGM-300照明眩光专用测量系统

LGM-300 Lighting Glare Measurement System

LGM-300照明眩光专用测量系统是在原有LGM-200B的基础上推出的新一代专门针对室内外照明场景眩光测量分析的专业测量系统，满足CIE、EN以及GB等相关室内外照明眩光标准的测量要求。

LGM-300 Lighting Glare Measurement System is a new generation designed by EVERFINE on the basis of LGM-200B. It conforms with the latest relevant standards of CIE, EN and GB ect.

LGM-200B的升级产品，测试更便捷，效率更高

Upgraded product of LGM-200B, more convenient and more efficient

大视场极低畸变，图像分辨率高，测试精度高

Extremely low image distortion under large field of view, high image resolution, high test accuracy

同时满足UGR、TI、GR、DGI眩光测试

Realize UGR, TI, GR and DGI measurement simultaneously



主要特点 Main Characteristics

- 配置精密电动云台和专用测控软件实现水平方向360°视角范围内旋转，满足标准和实际测试需求。
Equipped with precise electrical platform and professional software to realize the rotation range of 360°, and it fully meets the standard requirement.
- 选用高稳定的、光谱响应曲线与CIE V(λ)曲线严格匹配的优质亮度图像探测单元，保障了测量高精度与稳定性。
Fine CIE V(λ) corrected luminance image measurement unit and it features high accuracy and high reliability.
- 场景图像分辨率高，不存在图像失真问题。
High resolution of scene image and no image distortion.
- 专业、友好的软件界面设计，眩光测量分析更简单。
Professional and friendly software design and it is simple for glare measurement.

SRC-600/200 光谱彩色亮度计

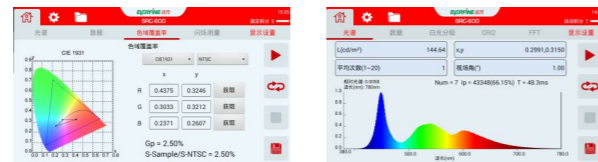
SRC-600/200 Spectral Radiance Colorimeter

SRC-600/200光谱彩色亮度计可实现景观照明、室内照明、道路照明、应急照明、投光灯、面板灯、舞台灯等各类光源的高度、色度、光谱等参数，测试精度高，稳定性好。

SRC-600/200 Spectral Radiance Colorimeter can test various lamps to get parameters like luminance, colorimetry, spectrum and etc. It can widely used in landscape lighting, indoor lighting, road lighting, emergency lighting, flood light, panel light, stage light and etc. High accuracy and stability.



实现光色的高精度、高重复性、高对比度测量
High accuracy, high repeatability, high contrast of photometric and colorimetric measurement

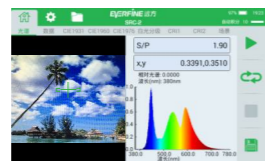


- 集光谱、亮度、颜色测量功能于一体 Accurate measurement for spectral radiance, luminance and colorimetric quantities
- 灵敏度高达 0.0005cd/m^2 Down to 0.0005cd/m^2 luminance measurement

SRC-2 手持式光谱亮度计

SRC-2 Spectral Radiance Colorimeter

智能便携，准确高效，最小的可视光谱彩色亮度计
Intelligent portable, Accurate effective, Minimum visible spectral radiance colorimeter



实时摄像瞄准测量
Real-time viewfinder measurement



历史测量数据查看
View historical data

- 可测量参数包括辐亮度、亮度、相对光谱功率分布，色品坐标，相关色温，显色指数等，涵盖了被测对象的光色参数。
Measurable parameters include radiance, luminance, relative spectral power distribution (SPD), chromaticity coordinates, correlated color temperature (CCT), color rendering index (CRI) and so on.
- 不存在光谱失匹配误差，测量准确度高，可替代三刺激值滤色片式亮度计。
High accuracy without $V(\lambda)$ mis-matching error, an ideal product to replace tristimulus filter type luminance colorimeter.

START-1000 光源启动/上升时间测试系统 Source Start Up Time Test System

根据欧盟指令1194/2012、2009/125/EC及国际标准IEC60969《Self-ballasted Lamps for General Lighting Services-Performance Requirements》等设计，专用于LED灯及灯具、节能灯等各类光源的启动时间（starting time）和上升时间（run-up time）的测量。

START-1000 is designed to test the start time and run-up time of LED lamps and luminaires, CFL, etc., meeting requirements of European regulation 1194/2012, 2009/125/EC and international standard IEC60969.

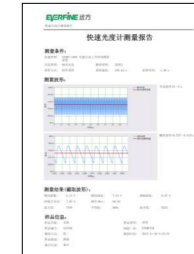


PHOTO-2000EZ 平均柱面（半柱面）照度计 Average Full (Half)-cylindrical illuminance meter PHOTO-2000AH 自动安平照度计 Automatic level illuminance meter

PHOTO-2000EZ平均柱面（半柱面）照度计用于圆柱面（半柱面）的平均照度测试；PHOTO-2000EZ自动安平照度计用于倾斜平面的水平照度测试。适用于体育馆、工业现场、商业照明、道路照明等现场照度测量。

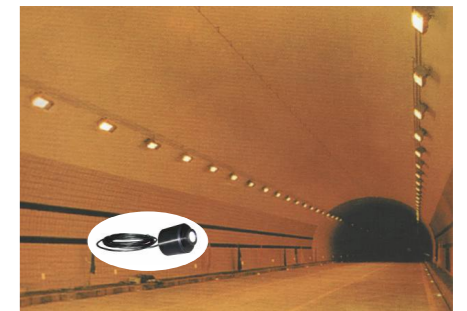
PHOTO-2000EZ Average Cylindrical Illuminance Meter offers accurate and easy measurement of full(half)-cylindrical illuminance. it is widely used for field measurement in gymnasium, square, road lights, and station hall, etc.



全密封照度计 Full-seal illuminance meter

主要用于高速公路、隧道、广场、场馆、居住区、工业现场、野外、水下等场所全天候的照度的精确测量和控制。外壳由高分子材料、不锈钢和玻璃制成，有良好的防水、防尘、防腐性能，适宜野外等较恶劣的工作环境。可满足各种工业仪器仪表的接口要求，特别适合多点、全方位测量组态。

It is widely used for the photometric (illuminance) measurement and automatic control in tunnels, square, hall, outdoor, waterunder, industrial field etc. The shield of photometer head is made of macromolecule material, stainless steel and glass. It is full-sealed, and can work under atrocious conditions.



➤ PHOTO-2000 μ微 / m 弱光照度计 μ/m-LUX Meter

10⁻⁸lx微弱光探测能力
10⁻⁸lx weak light test ability



10⁻⁸lx、10⁻⁶lx、10⁻³lx多种微弱光照度测试水平供选择。用于采用国际领先的微光检测技术，测量精度高，稳定性好，常用于测量精度高，稳定性好，常用于暗室、照片影印室、测光实验室、物理实验室、计量实验室及其他有关的科研、工程、产品检验等场合。

Everfine can provide different level of Lux meter, such as 10⁻⁸lx, 10⁻⁶lx, 10⁻³ lx. It adopts the international leading weak light detection technology with high accuracy and high stability. It is widely used in dark room, photocopying room, photometric laboratory, physics laboratory, metrology laboratory and related scientific research, engineering, product inspection and other application

➤ FSH - 2000 高速闪光分析仪 Flash Light Analyzer

最高4M采样速率
The maximum sampling rate up to 4M



采用高速低噪声探测器采样（10kHz、100kHz、500kHz、1MHz、2MHz、4MHz采样频率可选），可实现闪光灯等快速光源的采样分析，测量闪光宽度、积分光强、有效光强、峰值光强、平均光强等参数。

It can realize high speed photometric measurement of transient light sources such as the flashlight, and can measure the flickering width, integral intensity, effective intensity, peak intensity, average intensity of light sources.

➤ PHOTO-2000INT 积分式光度计 Integrating Photometer



积分光度计主要用于总曝光量(cd.s、lx.s)及平均曝光量的测量，可应用于闪光灯、警灯等瞬变光源的闪光频率、及光度值测试。

PHOTO-2000INT is mainly used for total exposure energy(cd.s or lx.s)and average exposure energy measurement, Can be used to test the flash frequency and luminosity value of transient light sources such as flashlights and warning lights.

照明细分领域产品系列

Subdivision Product series in Lighting Field

➤ 专业汽车领域测量设备 Professional Automotive Field Measurement Instruments

远方可为汽车照明领域提供专业的检测设备，包括车灯及回复反射器光度色度性能测试、光通量及色度测试系统、车灯在线调光系统、车灯模组在线测试系统、以及各类车载显示（含显示器、氛围灯、背光字符、仪表组件、控制器、信号装置等）的亮度颜色、均匀性测量等。

EVERFINE provides comprehensive optical test solution for traffic and automotive lighting lamps, mainly including photometric and colorimetric performance test system for automotive lamps and retroreflectors luminous flux and chromaticity test system, vehicle lamp on-line test and adjustment system, vehicle LED module online test system and all kinds of luminance & color uniformity analysis and so on.



GO-HD6交通与车用灯具配光性能测试系统
Goniophotometer for Automotive and Singal Lights



OA系列车灯在线调光测量系统
Vehicle Lamp On-line Test and Adjustment System



MAT系列车用灯模组自动测试系统
Vehicle Light Automatic Test System

详细内容请见《医疗器械检测设备解决方案》
For more information, please refer to 《Medical Equipment Test Solutions》



➤ 植物照明专用检测设备 Special Testing Equipment for Plant Lighting

远方可为植物照明领域提供植物照明灯具的光谱功率分布SPD、光谱量子分布SQD、光合光子通量PPF、光合光子通量密度PPFD、光合光子强度PPID、光合辐射效率PPE等测试解决方案。

EVERFINE provides comprehensive optical test solution for plant lighting field, the measurement parameters include: SPD, SQD, PPF, PPFD, PPID, PPE and so on.



PLA-30植物光照分析仪
Plant Lighting Analyzer



PMS-2000P高精度植物光谱辐射测试系统
High Accuracy Plant Spectroradiometer



RGO-2000P植物照明机器人分布测试系统
Robert Plant Lighting Distribution Test System

详细内容请见《植物照明检测设备解决方案》
For more information, please refer to 《Plant Lighting Test Solution》



▶ 紫外辐射测量设备 UV Radiation Measurement Instrument

远方可为紫外应用领域包括杀菌消毒、美容医疗、固化、验钞、探伤等提供光谱、辐通量、辐照度、辐射剂量、辐射强度分布、辐射安全等测试解决方案。

EVERFINE provides comprehensive optical test solution for disinfection, cosmetic, UV curing, currency check, flaw detection. And the measurement parameters include: spectral, UV radiant flux, UV radiant illuminance and so on.



USR-200 紫外光谱辐射照度计
UV Spectral Irradiance Meter



ATA-500 UV紫外LED 自动温控光电分析测量系统
Auto-Temperatured UV LED Opto-Electronic Analyzer



GO-SPEX200紫外空间辐射分布测试系统
Ultraviolet Spatial Radiation Distribution Testing System

详细内容请见《紫外辐射测量设备》
For more information, please refer to 《UV Radiation Measurement Instrument》



▶ 红外LED和VCSEL激光测试设备 Measurement of IR LED and VCSELs

远方可为红外及VCSEL激光应用领域包括3D感测、人脸识别、无人驾驶、安防监控等提供光谱、辐通量、辐照度、辐射强度分布、辐射安全等测试解决方案。

EVERFINE provides comprehensive optical test solution for 3Dsensing, face recognition, driverless, security monitoring. And the measurement parameters include: spectral, radiant flux, radiant illuminance and so on.



ATA-500IR LED自动温控光电分析测量系统
Auto-Temperatured LED Opto-Electronic Analyzer



VGS-200 辐射角分布测量系统
VCSEL Gonioradiometer System



VTS-200 VCSEL 光电测试分析系统
VCSEL Optical & Electrical Test System

详细内容请见《红外LED和VCSEL激光产品测量》
For more information, please refer to 《Measurement of IR LED and VCSELs》



▶ 医疗器械检测设备 Medical Equipment Test Solution

远方可为医疗器械领域包括各类医用照明光源及灯具、治疗用光源、内窥镜及冷光源、验光仪、医用显示器、医疗辅助器械等提供专业的光电测试设备解决方案。

EVERFINE can provide complete testing equipment for the field of medical devices, including: medical lighting source and lamp measurement system, light radiation testing for therapeutic light sources, endoscope and cold light source measurement, etc.



SLS-1000无影灯光色测试系统
Shadowless Light Color Test System



MES-2000 医用内窥镜光学性能测试系统
Photometric measurement device of endoscopic fibre optical cable



MEL-2000 内窥镜冷光源光色测试系统
Photometric and colorimetric measurement device for cold light source

详细内容请见《医疗器械检测设备解决方案》
For more information, please refer to 《Medical Equipment Test Solutions》



▶ 专业显示测量设备 Professional Display Measurement Instruments

远方可为显示领域包括显示背光源、AR/VR虚拟现实、激光投影、各类型显示光源如Mini/Micro-LED、LCD、OLED等，以及车载显示及相关材料和器件提供科学专业的光电测量设备解决方案。

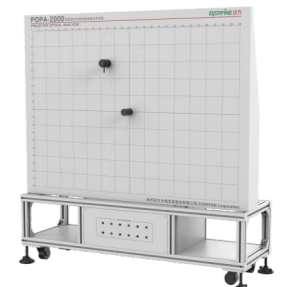
EVERFINE can provide complete testing equipment for the field of medical devices, including: AR/VR, OLED, LCD, backlight, vehicle display, etc.



DMS系列平面显示光学特性测试系统
DMS Series Optical Property Test System for FPD



NEDS-2000 近眼显示机器人测量系统
Near-Eye Display Robotic Measurement System



POPA系列投影机光学性能分析系统
POPA Projector Optical Analyzer

详细内容请见《专业显示测量设备》
For more information, please refer to 《Professional Display Measurement Instruments》



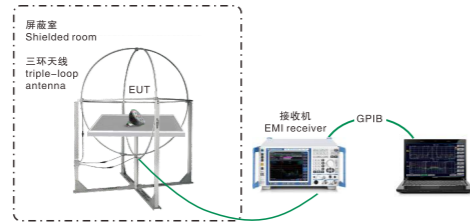
照明配套其他产品系列 Other Products

EMC 测试系统 EMC Test System

远方可为照明光源或灯具提供全系列的电磁骚扰测试、电磁抗扰度测试设备。包括：静电放电抗扰度、脉冲群抗扰度、浪涌冲击抗扰度、振铃波抗扰度、工频磁场抗扰度、传导骚扰、辐射骚扰等测试解决方案。
EVERFINE can provide whole set of EMC equipment and solution. Include: ESD, EFT, Surege, Ring Wave, Power frequency magnetic field, CE, RE and other test solution.



EMS61000-2A 静电放电发生器
ESD Generator



EMI-3000 低频磁场辐射（三环辐射）骚扰测试系统
Magnetic Field Radiated Emission Test System



EMS61000-3A 辐射抗扰度测试系统
Radiated Susceptibility Test System

详细内容请见《电磁兼容EMC整体解决方案》
For more information, please refer to 《EMC Professional Solution Provider》



数字功率计及精密测试电源 Digital Power Meter & Power Supply

远方可为照明光源或灯具提供全系列数字功率计及精密测试电源。包括：PF系列数字功率计、LED驱动电源测试仪、DPS系列智能交流测试电源、PCR-W系列可编程交流电源、WY系列精密数显直流稳压电源、LTS-300 LED脉冲电源等。
EVERFINE can provide whole set of digital power meter and power supply, Include: PF series power meter, LED driver tester, DPS series AC power supply, PCR-W series programmable power supply, WY series digital constant current & constant voltage DC power supply, LTS-300 LED pulse power supply, etc.



PF系列数字功率计
PF series power meter



LT-101A LED 驱动电源性能测试仪
LED driver tester



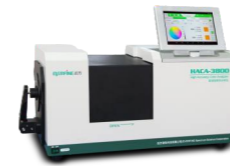
PCR系列可编程测试电源
PCR series AC testing power source

详细内容请见《电子测量仪器解决方案》
For more information, please refer to 《Electronic Testers and Solutions》

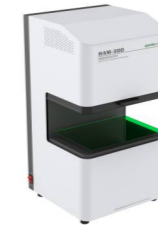


颜色及材料光学特性测试设备 Color and Material Optical Measurement Equipment

远方可为照明领域中材料例如荧光粉、灯壳、导光板、扩散板、光学透镜等提供反射率、透射率、雾度、色差、颜色等测试解决方案。
EVERFINE can provide lighting material test solutions such as fluorescent powder, lamp cover, light lamp guide, diffuser plate, optical lens and etc, the parameters include transmittance, reflectance, haze, gloss and chromatic value etc.



HACA系列高精度颜色分析仪
High accuracy color analyzer



HAM系列雾度计
Haze meter



UVIR-2500 紫外可见近红外增强型分光光度计
UV-VIS-NIR plus spectrophotometer



BBMS-3000 双向反射透射空间分布测量系统
BRDF/BTDF measurement system

详细内容请见《国际高端材料光色测量设备》
For more information, please refer to 《Quality Color Measurement Instruments》



远方检测 EVERFINE Test



一站式定制化检测服务平台 Customized Test and Calibration Services

远方检测已获得中国和美国第三方检测校准实验室认可资质（CNAS L5831, NVLAP 500074-0），专注于研发检测，业务领域：光、色、电、热、磁，以及各类可靠性检测分析。
EVERFINE Test is accredited by both CNAS and NVLAP (CNAS L5831, NVLAP 500074-0). We provide professional test/calibration services, including Photometric quantities, Colorimetric quantities, Electrical Parameters, Electromagnetic Compatibility, Reliability, etc.

详细内容请见《检测校准服务专业机构》
For more information, please refer to 《Professional Test and Calibration Institute》

