舜宇光学科技(集团)有限公司
SUNNY OPTICAL TECHNOLOGY (GROUP) COMPANY LIMITED

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E-MAIL: office @ sunnyopticaI. com
HTTP:// www.sunnyoptical.com
P.C.: 315400

COMPANY PROFILE

公司概况 |

名配角战略
打造先进光

舜宇集团 Sunny Group

本公司聚焦光电产业，主要从事光学、光电、仪器三大领域产品的开发、制造和销售，亦是首家在香港联交所主板上市的光学企业。

发展策略：

坚定不移实施名配角战略，打造驰誉全球的光电企业；实现从光学产品制造商向智能光学系统方案解决商转变；从仪器产品制造商向系统方案集成商转变；改变人们的工作与生活方式，使人们的工作更加高效、生活更加美好。

主要产品：

光学产品：玻璃球面镜片、玻璃/塑料非球面镜片、平面镜、蓝玻璃、棱镜、红外镜头、手机镜头、数码相机镜头、投影镜头、扫描镜头、3D交互镜头、车载镜头、工业镜头等

光电产品：手机模组、安防模组、阵列模组、光学触摸模组、条码模块、高清数字机芯、环视模组、3D重构模组、体感交互、工业内视镜、视频会议系统、环视摄像头、物联网应用多功能一体机、WIFI内窥镜、无线摄像模块、手势交互等

光学仪器：显微镜、LDV、质谱仪、光谱仪、色谱仪、天平仪器、物性测试仪器、实验室仪器以及智能柔性生产系统等

Sunny Optical Technology Co.,Ltd., which focuses on the optoelectronics industry, is a comepany mainly engaged in developing, manufacturing and selling optical parts,optoelectric products and instruments. It is also the first Chinese optical enterprise listed on Hongkong Stock Exchange Main Board.

Development Strategy :

By adhering to the strategy of "Mingpeijiao"(名配角), Sunny is aiming to become the world' s most prestigious optoelectroinc enterprise. Our goal is to complete transformation from an optical products manufacturer to a smart optical system solution provider and from an instrument manufacturer to a system solution integrator; to change people's working and life style, so that people can work more efficiently and have a better life.

Main products:

Optical parts: glass lens, glass/plastic aspheric lens, plate, blue glass IRCF, prism, infrared lens, cellphone camera lens, digital camera lens, projection lens, scanning lens, 3D Interactive lens , automotive lens and industrial lens, etc.

Optoelectronic products: cell phone camera module, security camera module, array module, optical touch panel module, barcode recognition module, HD digital engine, 360°view module, 3D modeling module, somatosensory interaction, industrial endoscope, video conference system,360°view camera, multi-functional IOT all-in-one camera, Wi-Fi endoscope, wireless camera unit, gesture recognition, etc.

Optical instruments: microscope, laser doppler vibrometer, mass spectrometer, spectrometer, chromatography, balance instrument, physics character analytical instrument 、 laboratory instrument, and Solutions for flexible production line, etc.

HISTORY

历史沿革 |

1984年 公司前身余姚市第二光学仪器厂成立，开始生产光学元件
1990年 开始生产显微镜 ,进入光学仪器领域
1994年 实行股份制改造，更名为"浙江大学余姚光电(集团)股份有限公司"
1995年 启用"舜宇"商号、商标，更名为"浙江舜宇(集团)股份有限公司"
1999年 通过IS09001认证
2000年 被认定为国家重点高新技术企业
2002年 更名为"舜宇集团有限公司"
2003年 开始生产分光光度计 ,进入科学仪器领域
2004年 开始生产手机摄像模组 ,进入手机产业领域
2004年 确定"名配角战略"为公司的基本战略
2005年 世界顶级投资公司INVESTOR AB和美国成为基金加盟舜宇，成为公司新股东
2005年 通过IS014001认证
2006年 舜宇光学科技(集团)有限公司成立 ,同时进入红外光学领域
2007年 舜宇光学科技(集团)有限公司在香港联交所主板上市
2009年 "舜宇" 被国家工商总局认定为 "中国驰名商标"
2010年 开始生产质谱仪 ,进入生物过程领域
2011年 开始生产激光多普勒测振仪 ,进入精密测量仪器领域
2012年 在美国硅谷设立研发机构，成立舜宇光电北美公司
2013年 收购柯尼卡美能达光学仪器（上海）有限公司手机镜头业务
2014年 成立上海舜宇阳明精密光学有限公司
2015年 成立浙江舜宇智能光学技术有限公司

1984 The predecessor of Sunny Group--Yuyao second optical instrument factory was founded
1990 Started to produce microscope, entered the field of optical instruments
1994 Renamed Zhejiang University Yuyao Optoelectronics (Group) Co., Ltd. after shareholding restructured.
1995 Started to use trade name and trademark of "Sunny" and the company was renamed to "Zhejiang Sunny (Group) Co., Ltd."
1999 Successfully passed the ISO9001
2000 Awarded as "National High- Tech Enterprise"
2002 Changed name into "Sunny (Group) Co., Ltd."
2003 Began spectrophotometer production, entered the field of scientific instruments
2004 Started designing and producing cell phone camera module, entered the mobile phone industry
2004 Set up "Core Supplier Strategy" (MingPeiJiao) as the company business philosophy
2005 The world top VC. "Investor AB founds" and USA "CHENWEI founds" became new shareholders of the company
2005 Successfully achieved the ISO14001
2006 Sunny Optical Technology (Group) Co., Ltd. was established, at the same time entered the infrared optical field
2007 Sunny Optical Technology (Group) Co., Ltd. was listed on Hongkong Stock Exchange Main Board
2009 "Sunny" was recognized as a well-known trademark in China by SAIC
2010 Started to produce mass spectrometer, entered the field of biological process
2011 Started to produce Laser Doppler Vibrometer, entered the field of precision measuring instruments
2012 Set up R & D institutions in American Silicon Valley and Sunny Opotech North America INC
2013 acquired Konica Minolta optical instrument (Shanghai) Co., Ltd.' s cellphone camera lens business.
2014 Set up Shanghai Sunny YangMing Precision Optics Co.,Ltd.
2015 Set up Zhejiang Sunny Optical Intelligence Technology Co.,Ltd.

乡镇企业阶段

1984年，创立公司前身—— "余姚第二光学仪器厂" 。
1988年，与浙江大学组建科研生产联合体

The period of Township and Village Enterprises
In 1984, the predecessor of Sunny Group-Yuyao Second Optical Instrument Factory was founded.
In1988, established research and production community with Zhejiang University

股份制企业阶段

1994年，实行股份制改造——员工持股。
1995年，启用 "舜宇" 商号、商标，更名为 "浙江舜宇（集团）股份有限公司"
（ "舜宇" —从余姚走向世界 ）
2000年，被国家科技部认定为 "国家重点高新技术企业" 。

The period of joint-stock enterprises
In1994, implemented shareholding system transformation——employee stock ownership program.
In1995, started to use trade name and trademark of "sunny" and the company was renamed to "Zhejiang Sunny (Group) Co., Ltd."
In2000, awarded as "National High-Tech Enterprise" .

公众企业阶段

2007年6月15日，在香港联合交易所主板挂牌上市.

The period of public enterprises
on June 15th,2007,Sunny Optical Technology(Group)Co., Ltd was listed on Hongkong Stock Exchange Main Board.

THE FOUNDER AND CORE LEADERSHIP OF THE COMPANY

公司创始人与现任公司核心领导

光学科技（集
）有限
Company

（左）公司常务副总裁　王文杰
(L)The executive deputy president
MR.Wang Wenjie

（中）公司创始人　王文鉴
(M)The founder Mr.Wang Wenjian

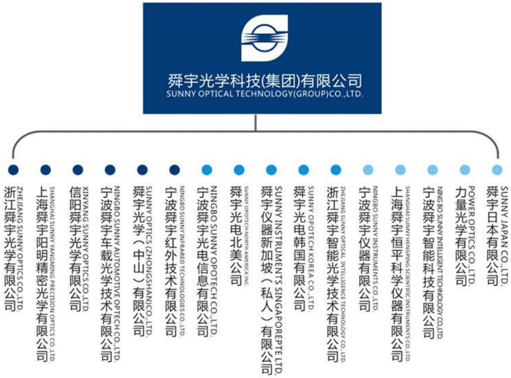
（右二）公司董事长　叶辽宁
(R2) The chairman Mr.Ye Liaoning

（右一）公司总裁　孙泱
(R1) The president Mr.Sun Yang

ORGANIZATION AND MANAGEMENT GROUP

组织与管理团队

公司拥有专业的、经验丰富的管理团队。
Our company has professional board and management team with extensive experience.



舜宇光学科技(集团)有限公司
SUNNY OPTICAL TECHNOLOGY(GROUP)CO.,LTD.

- 浙江舜宇光学有限公司 ZHEJIANG SUNNY OPTICS CO.,LTD.
- 上海舜宇阳明精密光学有限公司 SHANGHAI SUNNY YANGMING PRECISION OPTICS CO.,LTD.
- 信阳舜宇光学有限公司 XINYANG SUNNY OPTICS CO.,LTD.
- 宁波舜宇车载光学技术有限公司 NINGBO SUNNY AUTOMOTIVE OPTECH CO.,LTD.
- 舜宇光学（中山）有限公司 SUNNY OPTICS (ZHONGSHAN)CO.,LTD.
- 宁波舜宇红外技术有限公司 NINGBO SUNNY INFRARED TECHNOLOGIES CO.,LTD.
- 宁波舜宇光电信息有限公司 NINGBO SUNNY OPOTECH CO.,LTD.
- 舜宇光电北美公司 SUNNY OPOTECH NORTH AMERICA INC.
- 舜宇仪器新加坡（私人）有限公司 SUNNY INSTRUMENTS SINGAPOREPTE LTD.
- 舜宇光电韩国有限公司 SUNNY OPOTECH KOREA CO.,LTD.
- 浙江舜宇智能光学技术有限公司 ZHEJIANG SUNNY OPTICAL INTELLIGENCE TECHNOLOGY CO., LTD.
- 宁波舜宇仪器有限公司 NINGBO SUNNY INSTRUMENTS CO.,LTD.
- 上海舜宇恒平科学仪器有限公司 SHANGHAI SUNNY HENGPING SCIENTIFIC INSTRUMENTS CO.,LTD.
- 宁波舜宇智能科技有限公司 NING BO SUNNY INTELLIGENT TECHNOLOGY CO.,LTD.
- 力量光学有限公司 POWER OPTICS CO.,LTD.
- 舜宇日本有限公司 SUNNY JAPAN CO.,LTD.

长三角生产基地（浙江余姚市）
Manufacturing base (Yuyao, Zhejiang)

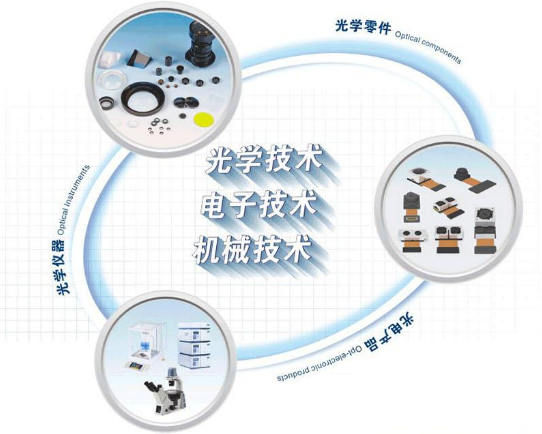
中原经济区生产基地(河南信阳)
Central Plains Economic Zone production base (Xinyang, Henan)

珠三角生产基地（广东中山市）
Manufacturing base (Zhongshan, Guangdong)

上海舜宇阳明精密光学有限公司

长三角生产基地（上海）
Manufacturing base (Shanghai)

业务概览


光学零件 Optical components
光学技术
电子技术
机械技术
光学仪器 Optical Instruments
光电产品 Opt-electronic products

浙江舜宇光学有限公司
ZHEJIANG SUNNY OPTICS CO.,LTD.

专业从事手机镜头、其他领域镜头组件、塑料非球面镜片的设计、制造和销售。
Expert in designing, manufacturing and selling camera phone lens, other fields' lens components and plastic aspherical lens.

舜宇光学（中山）有限公司
SUNNY OPTICS (ZHONGSHAN)CO.,LTD.

专业从事各种光学镜片、各种镜头组件等光学产品的设计、制造和销售。
Expert in designing,manufacturing and selling optical products including various optical lenses and lens sets, etc.

宁波舜宇车载光学技术有限公司
NINGBO SUNNY AUTOMOTIVE OPTECH CO.,LTD.

专业从事各种光学镜头组件、微投光机等光学产品的设计、制造和销售。
Expert in designing, manufacturing,selling optical products including various opticallenses and pico projector engine.

信阳舜宇光学有限公司
XINYANG SUNNY OPTICS CO.,LTD.

专业从事光学元器件、光电信息产品的开发、制造和销售，具有专业的光学设计及生产技术。
Expert in designing,manufacturing and selling optical components,optoelectronic products the company also has professional design and production technology.

BUSINESS OVERVIEW

上海舜宇阳明精密光学有限公司
SHANGHAI SUNNY YANGMING PRECISION OPTICS CO.,LTD.

专业从事手机镜头的制造和销售。
Expert in manufacturing and selling mobile phone lens sets.

宁波舜宇红外技术有限公司
NINGBO SUNNY INFRARED TECHNOLOGIES CO.,LTD.

专业从事红外光学材料的研究及各种红外镜头的设计、制造和销售。
Expert in R&D of infrared materials,as well as designing,manufacturing and selling infrared lenses.

宁波舜宇光电信息有限公司
NINGBO SUNNY OPOTECH CO.,LTD.

专门从事光学影像系统类产品的设计、制造和销售。
Expert in designing, manufacturing and marketing of the optical imaging products.

宁波舜宇仪器有限公司
NINGBO SUNNY INSTRUMENT CO.,LTD.

专业从事显微镜及相关光学检测设备的设计、制造和销售。
Expert the design, production and sales of microscope as well as related optical equipment.

上海舜宇恒平科学仪器有限公司
SHANGHAI SUNNY HENGPING SCIENTIFIC INSTRUMENT CO.,LTD.

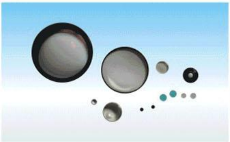
专业从事实验室分析、生物与过程分析、天平等科学仪器的研发、制造和销售。
Expert in scientific instrument development, manufacturing and sales promotion, including lab analysis and measurement instruments, bio and process analytical instruments and balances .

宁波舜宇智能科技有限公司
NING BO SUNNY INTELLIGENT TECHNOLOGY CO.,LTD.

专注于智能制造领域，提供数字化工厂的整体解决方案。
Expert the field of intelligent manufacturing and provide the overall solution of digital factory.

光学零件的设计与制造

公司具有三十多年光学零件设计和制造技术的积累，在非球面、多层镀膜、AF/ZOOM等光学核心技术的研究和应用方面处于国内行业领先水平，能根据客户需要生产大批量、低成本、高质量的各类光学零件产品。



玻璃镜片加工 Glass lenses processing

自动化芯取
Automatic centering

自动涂墨
Automatic ink coating

镀膜
Coating

非球面镜片加工 Aspherical lenses processing

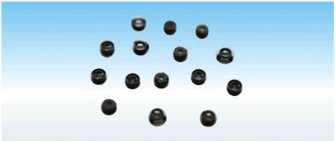
非球面模具
Aspherical module

非球面模仁加工
Aspherical module processing

非球面玻璃镜片及塑料镜片制造
Glass aspheric lenses and plastic lenses manufacturing

THE DESIGN AND MANUFACTURING OF OPTICAL COMPONENTS

With more than 30 years' experience of optical designing and manufacturing, we possess some cutting edge optical technologies including aspheric surface, AF/Zoom and multilayer coating, etc. We are capable of providing high quality optical components with low cost according to customers' requirements.



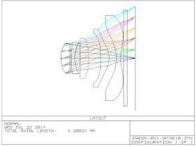
手机镜头 **Cellphone camera lens sets**

注塑成型设备
Molding machines

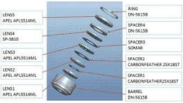
镜头自动化组立生产线
Automatic assembling production lines of lens sets

镜头检测
MTF inspection

手机镜头 **Cellphone camera lens sets**



光学结构图
Optical simulation



爆炸图
Schematic construction

菲涅尔透镜 **Fresnel lens**

专注于菲涅尔透镜的研发设计，
制造生产及销售，
高精度注塑工艺可满足不同客户的需求.

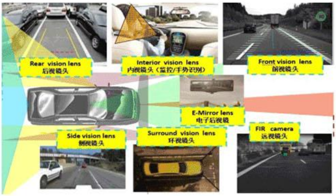
Focusing on research and development, manufacture and sales of Fresnel lens. High precision injection molding process can meet the needs of different customers.

Sunny Optical Technology

车载镜头 Automotive Lens.

2004年进入车载镜头领域，现出货量居全球第1位，通过TS16949体系认证，产品包括前视镜头、后视镜头、环视镜头、侧视镜头、内视镜头等。客户遍及欧美、日韩和国内，广泛应用于BMW、Benz、Audi、Toyota、Honda、Chrysler、Ford、GM、VW、Volvo等众多车型上。

Since we entered into automotive lens field in 2004, our shipments is No.1 in the globe and our custo mers are spreading over Europe , America , Japan , Korea and China. Our products with TS16949 system certification include rear view lens, front view lens, side view lens, surround view lens, etc. Our products are wildly used in BMW, Benz, Audi, Toyota, Honda, Chrysler, Ford, GM, VW, Volvo and many other cars.



车载镜头

自动、手动组装 Automatic, Manual assembly

IP69K试验箱

碎石冲击试验设备

高低温实验箱

高温低湿实验箱

热冲击箱

高低温循环实验箱

盐雾实验箱

淋雨实验箱

信赖性检测设备 Reliability equipment

Automotive lens

GE Nanomax -CT 测试

Trioptics-自动MTF 检验

Trioptics - 光学检验

FTIR 分光仪

Zeiss duramax -3D测试

非接触三坐标测量机

检测分析设备 Inspection & Analysis equipment

可追溯管理 Traceability management

红外热成像镜头 Infrared Imaging Lens.

公司06年实现可见光到红外的跨越，不仅具有先进的传统红外抛光、车削、镀膜技术，同时也是全球首家集硫系材料、精密模压、镜头组装于一体的专业红外镜头生产商，可为用户提供多种材料高性价比的热成像镜头设计与制作服务。

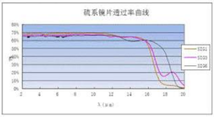
We expanded from visible optics into infrared optics in 2006.We are not only good at traditional infrared polishing, diamond turning and coating technology, but also good at the first one-stop company from chalcogenide material, precision molding to lens assembly in the world, we can provide competitive infrared lenses which are made of various materials

红外材料（硫系玻璃）
Infrared Material(Chalcogenide Glass)

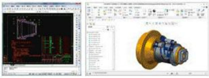
具有抛光、车削、模压多种加工特性，量产模压成本优势突出，dn/dT是Ge的 1/10，透过率不随温度变化而变化.

We have excellent processing properties of polishing , diamond turning,and highprecision molding. We also have low cost advantage by molding in volume production.

1/10 dn/dT of Ge.The product's dn/dT is 1/10 of Ge and Transmittance has no change with temperature fluctuation.



红外镜头设计和制造
Design and manufacture of Infrared Lens



研发设计 Design

抛光 Polishing

车削 Diamond turning

模压 Molding

镀膜 Coating

MTF 测试 MTF testing

红外镜头产品
Infrared Lens Products

红外安防镜头 Infrared Security Lenses

用于各种复杂环境24小时全天候监控的红外系统.

Used for Infrared Security System for 24 hours,monitoring under various of complicated environment.

红外车载镜头 Infrared night vision lens

用于红外夜视系统，以自主开发的硫系玻璃为材料，可模压，结构紧凑，抗震性好.

Made of SIG(Sunny Infrared Glass), compact, moldable, with nice anti-vibration.

红外测温镜头 Infrared thermometer lens

用于非接触式红外测温仪系统

Used for non-contact Infrared thermometer systems

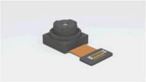
光电产品的设计与制造

公司具备光机电综合集成的光电产品开发能力。手机摄像模组生产规模和综合实力居国内行业首位，产品覆盖 30-2000 万像素的定焦、自动变焦、光学变焦等系列光电摄像模组，拥有CSP和COB制程能力。并已开始进入医疗、安防监控和车载等领域的光电视觉应用产品开发。

THE DESIGNING AND MANUFACTURING OF OPTOELECTRONIC PRODUCTS

We possess development capability of OME-integrated optoelectronic products. The production scale and overall strength of our mobile phone camera module is top-ranked in domestic industry with products ranging over series of optoelectronic camera modules such as 30-20 million pixels FF, AF, optical zoom, etc. Bearing CSP and COB process capabilities ,we have already entered into such fields as medical treatment, security surveillance and vehicle camera and begun the development of products for optoelectronic vision applications.

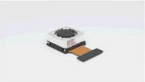
固定对焦模组 Fixed Focus Camera Module



像素覆盖5M-16M，是移动终端中低端主摄像头和高端副摄像头的标准配置。

Resolution coverage is 5MP-16MP, applying as the standard feature for the main camera on low & middle end handset or frontcamera on high end Smartphone.

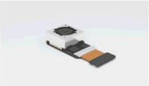
自动对焦模组 Auto Focus Camera Module



像素覆盖5M-23M,是移动终端主摄像头和高端副摄像头的标准配置。

Resolution coverage is 5MP-23MP, applying as the standard feature for the main camera on low-end handset or front camera on high-end Smartphone.

光学防抖模组 OIS Camera Module

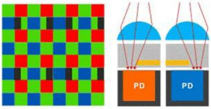


通过摄像模组内部的角速度传感器检测到按动快门的瞬间产生的微小抖动角度变化，然后把检测到的信号传到控制芯片，计算要补偿的移动量，再通过补偿镜头根据镜头抖动方向及距离加以补偿，从而减轻因抖动而产生的影像模糊.

The internal angular velocity sensor of the camera module detects small angle changes generated at the moment of pressing the shutter,then transmits the detected signals to the control chip to calculate the compensational displacement. And then the compensational lens works according to the jitter direction and distanceof the lens ,thereby reducing image blur due to jittering.

PDAF模组 PDAF Camera Module

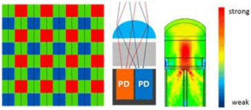
目前使用PD Pixel结构： PD Pixel 5%
Current :PD PIXEL Structure : PD Pixel 5%



优势：

1. Two PD类型PIXEL结构在弱光环境下,成功率更高.(10Lux)
2. 1.4um大像素尺寸芯片

Two PD类型Pixel结构：PD Pixel 100%
Two PD type PIXEL structure : PD Pixel 100%



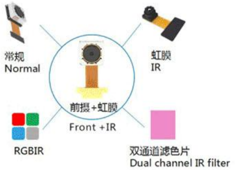
Advantage :

1. Two PD type PIXEL structure success rate is much higher at low light environment. (10Lux)
2. 12M big pixel size sensor

虹膜识别模组 Iris camera

单颗方案
Single Camera program

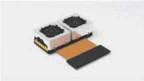
拍照虹膜一体式
Iris integrated camera

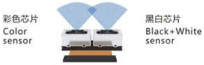


15年初，公司实现全球首款单颗虹膜识别模组的量产，目前可以提供客户多种单颗虹膜识别模组方案。公司目前已成功研发8M前摄+虹膜识别一体式AF方案 ，并同步开发13M或者更高像素方案，提高客户体验感。

In the beginning of 2016, Sunny opto-electronics achieved the mass production of the first single Iris recognition module in the world. Nowadays, Sunny can provide several kinds of single Iris recognition module projects for customers. Meanwhile, Sunny succeeds in developing the integrated 8M front camera plus Iris recognition camera module with AF, and we're still developing such kind of camera module with 13M or higher pixel, which is to improve customers' using experience.

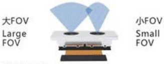
双摄模组-图像增强模组 Dual camera-Image Enhancement





相同像素，相同光学系统的双摄方案；
实现像素增强、快速宽动态、低照度拍摄等功能。
Same pixel, same optical imaging system dual camera RFQ:
Realize pixel enhance, quick wide dynamic, low light performance functions.

双摄模组-光学变焦 Dual camera-optical zoom



实现光学变焦效果的双摄方案；
通过对双摄模组间的镜头进行切换而引起所接收的焦深、景深的改变，最终而实现光学变焦功能。
Third kind of production, big FOV + small FOV.Module switchover the lens and cause focal depth ,depth of field to realize the optical imaging function.

Sunny Optical Technology

双目立体相机 Stereo camera

- 产品特点
  - ·全局曝光
  - ·高帧率深度图
  - ·不同基线一键标定
- Highlights
  - ·Global shutter
  - ·High frame rate depth map
  - ·Fast calibration for different baselines
- 市场应用
  Market Application

·机器人视觉 Robotic vision
·无人机避障 Drone Obstacle avoidance
·安防监控 Surveillance

飞行时间法 TOF

- 产品特点
  - ·高帧率实时3D动态视频
  - ·高精度3D点云输出
  - ·小尺寸，满足众多应用
  - ·抗强环境光干扰
  - ·权威机构激光安全认证
- Highlights
  - ·High frame rate real-time 3D video
  - ·High precision point cloud depth
  - ·Suppression of strong ambient light
  - ·Small size
  - ·Class I Laser safety certification
- 市场应用
  Market Application

·人机交互 HCI
·安防监控 Surveillance
·场景建模 scene modeling
·手势控制 Gesture control

结构光 Structure light

- 产品特点
  - ·高精度深度感知
  - ·高帧率实时视频流
  - ·嵌入式深度感知算法
- Highlights
  - ·High precision depth sensing
  - ·High frame rate real-time video
  - ·Embedded depth sensing algorithm
- 市场应用
  Market Application

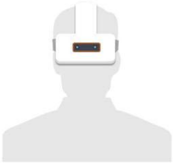
·体感游戏 Somatic game
·机器人视觉 Robotic vision
·安防监控 Surveillance
·人机交互 HCI

高清摄像 HD photography

- 产品特点
  - ·1080P@60fps/4K@30fps
  - ·超大广角镜头
  - ·完善的可定制软件系统
  - ·完善的内嵌畸变矫正算法
  - ·专业的图像处理平台
  - ·1000米WIFI远程智能控制
- Highlights
  - ·1080P@60fps/4K@30fps
  - ·fisheye lens
  - ·Customizable system SW
  - ·Embedded distortion correction algorithm
  - ·1km WIFI remote smart control
  - ·Professional image processing platform
- 市场应用
  Market Application

·航拍 Aerial Camera
·运动 Sports
·安防监控 Surveillance

手势操控 Gesture control



- 产品特色
  - ·多平台手势识别SDK开启与虚拟现实场景的无缝交互
  - ·精确追踪，分毫不差
  - ·全局曝光，毫秒级延迟，超大范围识别
- Highlights
  - ·Multi-platform specific SDK
  - · High precision gesture tracking
  - · Global shutter, low latency, big working field
- 市场应用
  Market Application
  - 手势控制
    Gesture control

OLED光学引擎 OLED optical engine

- 产品特色
  - ·完美视界，洞穿真实
  - ·实时影像信息显示
  - ·采用色彩艳丽OLED屏，折射出超大屏幕视觉享受
- Highlights
  - · Perfect display color
  - · real-time video display
  - · Super virtual display screen size with OLED
- 市场应用
  Market Application

·应用于智能眼镜等增强现实的产品。
Apply to AR products for virtual scene display.

避障/路径辅助 Obstacle avoidance/ Path assistance

- 产品特色
  - ·全局曝光
  - ·高帧率深度信息
  - ·不同基线一键标定
- Highlights
  - · Global shutter
  - · High frame rate depth map
  - · Fast calibration for different baselines
- 市场应用
  Market Application
  - 避障
    Obstacle avoidance
  - 路径辅助
    Path assistance

TV Camera TV Camera

- 产品特色
  - ·高清实时视频，沟通面对面
  - ·清晰降噪音质，轻松会话
  - ·顶部或桌面方式，摆放随心
- Highlights
  - · UHD real-time video
  - · Clear & noise-free sound
  - · Unlimited placement area
- 市场应用
  Market Application
  - TV视频通话
    Video call

工业内窥镜 Industrial endoscope

- 产品特色
  - ·无线连接，自由操控
  - ·视频输出，清晰显示
  - ·定制APP
- Highlights
  - · Wireless WIFI Transmission
  - · Clear image display
  - · Customized APP
- 应用领域
  Market Application
  - 机械、汽修检修
    Machine, Automotive repairing service
  - 管道、电力设施裂缝检测
    Pipeline, electic power facilities detection
  - 建筑结构内部质量检测
    Internal quality detection of architectural structure
  - 安防、安检危险品检测
    Security, hazardous material detection

Main Product & Application

舜宇仪器主要产品与应用

公司生产生物、体视、荧光、金相、偏光、数码、自动检测设备、产品配套八大类近百个型号的显微产品。主要应用于工业、教育、医疗、科研等领域。

Main products are biological, stereo, fluorescence, metallurgical, digital microscopes and microscopy components, as well as automatic test equipment.Main applications are industry, education, medical and scientific research.

生命科学显微镜

教学级生物显微镜
临床级生物显微镜
实验室 / 研究级生物显微镜
荧光显微镜
Biological Microscope for Education
Biological Microscope for Clinical
Biological Microscope for Research
Fluorescence Microscope

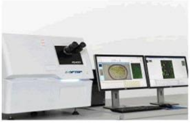
工业检测显微镜

体视显微镜
金相显微镜
偏光显微镜
珠宝显微镜
半导体 FPD 检查显微镜
Stereo Microscope
Metallurgical Microscope
Polarizing Microscope
Gem Microscope
Semiconductor FPD Inspect Microscope

显微数码互动教学与管理系统

显微摄像模组
显微视频摄像模组
互动教室 / 实验室
Microscope Camera
Microscope Camera with Screen
Interaction Class/Laboratory

智能仪器与自动化设备领域



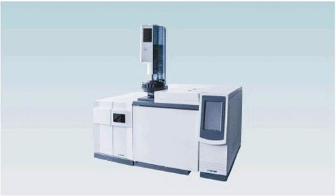
自动扫描显微镜和图像分析系统
全自动 ACF 在线检测系统
Auto Scanning Microscope
& Image Analysis System
Full-automatic ACF Online
Detecting System

产品配套

设备配套
仪器配套
物镜配套
Equipment Supporting
Instruments Supporting
Objective Lens Supporting

THE DESIGNING AND MANUFACTURING OF OPTICAL INSTRUMENTS

We possess relatively strong technologies in optics, electronics, application software, structural designing and machining which are necessary in the development of instrument products .We have already formed a range of instrument products with over hundreds of specifications, including high quality microscopes, precision measuring instruments, analytical instruments, physics character analytical instruments, balance instruments and laboratory instruments, etc.



分析仪器 Analytical instruments

全自动气相色谱仪、离子色谱仪、过程质谱仪、色谱/质谱联用仪等科学仪器广泛地应用于实验室分析、环境检测、食品安全、生物化工、制药等领域，满足用户的专业需求。

Automatic gas chromatograph, ion chromatograph, process mass spectrometer, chromatograph-mass spectromemer and etc. are widely usedin lab analysis, environment mointoring,food safety,bio-pharmacy, chemical industry, pharmaceutical industry, and etc.

质谱生产线
Mass spectrometer production line

气相色谱生产线
Gas chromatograph production line

天平仪器制造 Balance instrument manufacturing

公司生产广泛应用于重量、质量、水分、密度、粘度分析的高精密天平仪器。

We produce high precision balance instruments, which are widely applied to weight, quality, moisture, density and viscosity analysis.

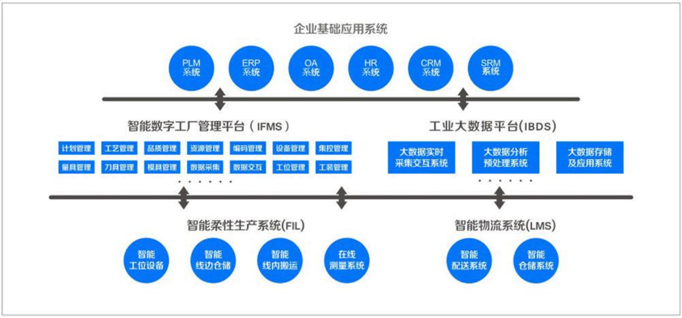
电子天平生产线
electronic balance production line

电子天平调试
Electronic balance debugging

智能数字工厂整体解决方案

舜宇的智能数字工厂整体解决方实现了模块与模块之间的数据交互，统一实现了制造业务的输入及与其他业务系统的数据交互。本方案智能数字工厂管理系统包括：环境监测模块，计划管理模块，工艺管理模块，仓储管理模块，配送管理模块，集控管理模块，工装管理模块，量具管理模块，刀具管理模块，模具管理模块，数据交互模块，绩效管理模块，工位管理模块，在制品仓保模块，看板管理模块，调度中心模块。相关功能模块可根据项目实际进行增减。

舜宇 智能数字工厂 解决方案架构图


企业基础应用系统
PLM 系统
ERP 系统
OA 系统
HR 系统
CRM 系统
SRM 系统
智能数字工厂管理平台（IFMS）
计划管理
工艺管理
品质管理
资源管理
编码管理
设备管理
集控管理
量具管理
刀具管理
模具管理
数据采集
数据交互
工位管理
工装管理
· · · · · ·
工业大数据平台(IBDS)
大数据实时采集交互系统
大数据分析预处理系统
大数据存储及应用系统
· · · · · ·
智能柔性生产系统(FIL)
智能工位设备
智能线边仓储
智能线内搬运
在线测量系统
智能物流系统(LMS)
智能配送系统
智能仓储系统

智能工厂管理系统在智能数字工厂架构中的思路

The overall solution for digital factory：

Sunny's overall solution of digital factory to achieve data exchange between modules, and realize the unification data exchange of the inputs of manufacturing operations and data of the other business systems. The scheme of intelligent plant management system include: environmental monitoringmodule, project management module, process management module, storage management module, distribution management module, integrated control management module, equipment management module, measuring management module, tool management module, mold management module, the data interaction module, performance management module, working-station management module, WIP storage management module, Kanban management module and the coordinating & control center module. The relevant functional modules can be added or removed according to the actual project.

智能数字工厂管理平台方案(IFMS)

舜宇智能科技依据舜宇30余年的制造管理经验，自主开发了一套超MES生产制造执行系统的创新型生产管理软件——舜宇智能数字工厂管理系统（IFMS），该软件系统已取得软件著作权证书，通过了相关部门的评测。这是一套全模块化的、高度集成的、全过程透明的、适合中国企业特点的智能工厂管理系统，它集中体现了数字工厂将来的发展趋势，即管理数字化、排产便捷化、采集自动化、物料精细化、现场看板化、质量透明化、系统集成化，可以帮助企业提升制造现场的管理水平、优化工艺流程、改善产品质量、提高生产效率、降低损耗与成本，并给管理人员及领导层提供决策支持。

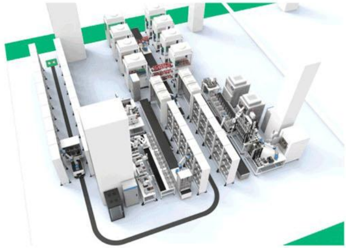
Super MES platform solutions :

Based on more than 30 years production experience, Sunny intelligent technology independently developed a set of super MES software platform solutions -- Sunny intelligent facility management system (IFMS), which has software copyright certificate and passed through the evaluation of the relevant organization. This is a intelligent facility management system with modular, highly integrated, whole process transparent, and suitable for Chinese enterprises. It has some advanced features which is reflecting of the future development trend of digital factory, that are, digital management and production convenient, acquisition automation, material fining, field Kanban, transparent quality and system integration, and can help enterprises to enhance the manufacturing site management level, to optimize process flow, to improve product quality and production efficiency, to reduce loss and cost, and to support management team and leaders to do decision-making.

智能数字工厂管理系统（IFMS）

智能柔性生产系统（FIL）

在有限的资源配置下，舜宇智能科技可以满足客户个性化需求，实现多个生产任务同时进行，打造批量定制的新型生产模式。



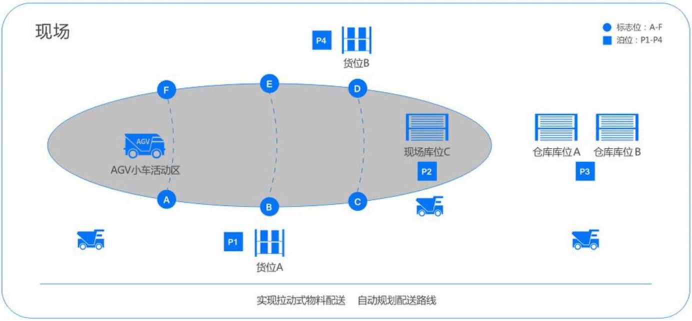
We can meet individual requirements or implement multiple production tasks at the same time under the limited resource allocation. It's make a new mode of customized manufacture production.

FIL柔性智能自动化生产线

智能物流系统

包含智能配送方案和智能仓储方案：

智能配送主要功能是配送自动化规则设置、根据规则发起的配送指令管理、配送工具和载具管理、泊位管理。该方案定义了库位、货位、料位、泊位等与物流相关的概念；无论仓储或者现场，每个物流位置都有精确的系统坐标值，以实现搬运机构的精确定位；服务产品制造过程的载具、工装模具、中转盒都有唯一标识，该标识与产品相关联，以实现混线柔性生产。

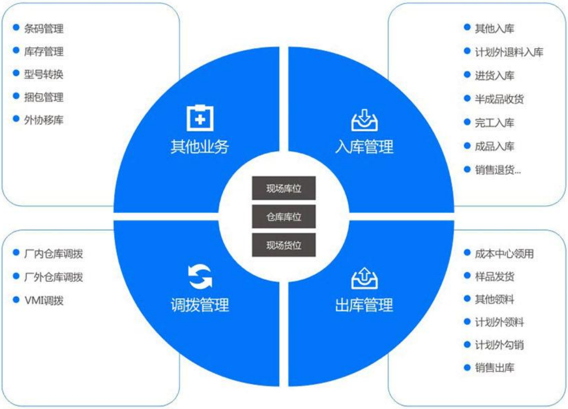

现场
● 标志位：A-F
■ 泊位：P1-P4
P4
货位B
F
E
D
AGV
AGV小车活动区
现场库位C
P2
仓库库位A
仓库库位B
P3
A
B
C
P1
货位A
实现拉动式物料配送
自动规划配送路线

智能配送系统规划示意图

Intelligent Logistics System：

It contains intelligent distribution solutions and smart storage solutions:
The main functions are to set up the rules of distribution automation, and according to the rules of distribution to command management, to distribute tools and to manage vehicle and berth. The scheme defines the storage, cargo space, material, berths and things related logistics; Not matter of storage or site, in order to achieve precise positioning of the conveying mechanism, each logistics location has precise XYZ coordinate value;
In order to achieve mixed flexible production line, all of carriers, tools,
transfer boxes in the manufacturing process of products has its own uniquely identify-code,
which is associated with the products.

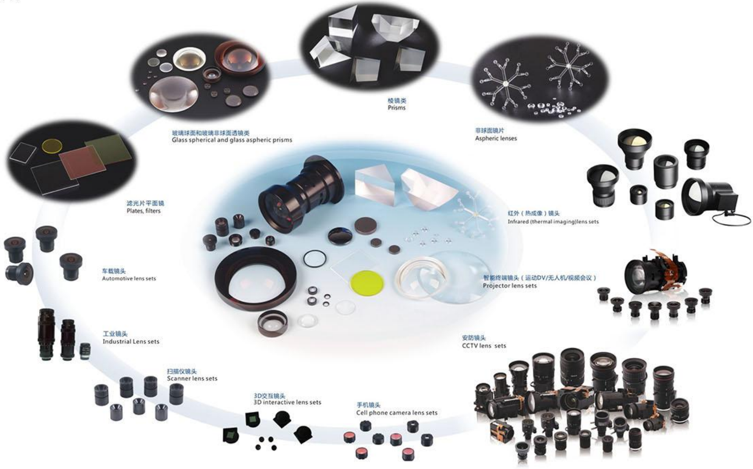
智能仓储方案通过条码技术（或RFID技术）和现代化仓储精益管理思想开发出来的仓库管理系统，实现智能出入库，对仓库按照库位进行精确管理，配合生产节奏和物料拉动信息，为生产提供成套配送、顺序拉动等物料配送模式，实现物料配送的精准化、自动化，减少人为操作，实现批次、单品管理、快速出入库、货物调拨和动态盘点。可以自动地记录下物流的流动，条码技术（RFID技术）与信息处理技术的结合帮助我们合理地利用仓库空间，以最快速、最正确、最低成本的方式为客户供最好的服务。


条码管理
库存管理
型号转换
捆包管理
外协移库
其他入库
计划外退料入库
进货入库
半成品收货
完工入库
成品入库
销售退货...
其他业务
入库管理
现场库位
仓库库位
现场货位
调拨管理
出库管理
厂内仓库调拨
厂外仓库调拨
VMI调拨
成本中心领用
样品发货
其他领料
计划外领料
计划外勾销
销售出库

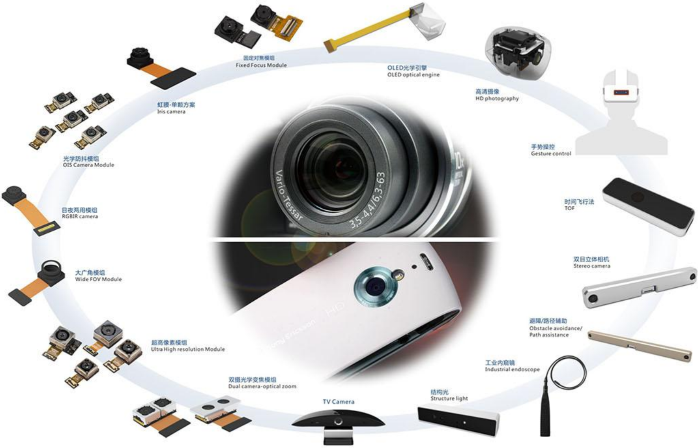
智能仓储方案管理示意图

By using the bar code technology and RFID technology and modern warehousing lean management thought, a warehouse intelligent management system was developed. It can achieve intelligent storage, accurate warehouse management according to the warehouse location. With rhythm of production and pulling information of the material, for the production, it can provide a set of distribution and sequence, such as pulling material distribution model, material precision delivery, automation, reducing manual operation, and realize the batch or single-product management, quick storage, goods allocation and dynamic inventory. To automatically record the flow of logistics, the bar code technology, (RF-ID) technology and information processing technology are combined with to help user to rationally use of warehouse space, to provide their customers with the best service by the fastest, most accurate, the lowest cost way.

光学零件 OPTICAL COMPONENTS


玻璃球面和玻璃非球面透镜类
Glass spherical and glass aspheric prisms
棱镜类
Prisms
非球面镜片
Aspheric lenses
滤光片平面镜
Plates, filters
红外（热成像）镜头
Infrared (thermal imaging)lens sets
车载镜头
Automotive lens sets
智能终端镜头（运动DV/无人机/视频会议）
Projector lens sets
工业镜头
Industrial Lens sets
安防镜头
CCTV lens sets
扫描仪镜头
Scanner lens sets
3D交互镜头
3D interactive lens sets
手机镜头
Cell phone camera lens sets

光电产品 OPTOELECTRONIC PRODUCTS


固定对焦模组
Fixed Focus Module
OLED光学引擎
OLED optical engine
虹膜·单颗方案
Iris camera
高清摄像
HD photography
光学防抖模组
OIS Camera Module
手势操控
Gesture control
Vario-Tessar
3,5-4,4/6,3-63
日夜两用模组
RGBIR camera
时间飞行法
TOF
大广角模组
Wide FOV Module
双目立体相机
Stereo camera
超高像素模组
Ultra High resolution Module
避障/路径辅助
Obstacle avoidance/
Path assistance
工业内窥镜
Industrial endoscope
双摄光学变焦模组
Dual camera-optical zoom
TV Camera
结构光
Structure light

光学仪器

体视显微镜
Stereo microscope

生物显微镜
Biological microscope

金相显微镜
Metallurgical microscope

偏光显微镜
Polarizing microscope

倒置显微镜
Inverted microscope

荧光显微镜
Fluorescence microscope

Fa电子分析天平
FA electronic analytical balance

电子比重/密度天平
Electronic specific gravity/
Density balance

OPTICAL INSTRUMENTS

紫外可见分光光度计
UV-VIS spectrophotometer

GC1120气相色谱仪
Gas chromatograph

离子色谱仪
Ion chromatograph

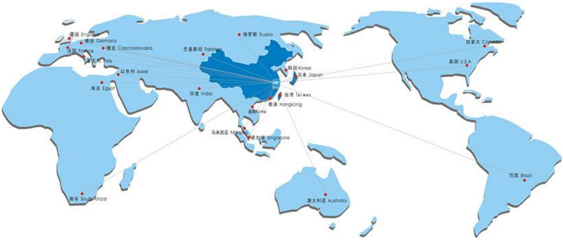
气相色谱-质谱联用仪
Gas chromatograph-mass spectrometer

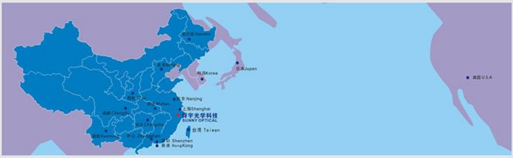
激光测振仪
Laser doppler vibration

激光位移传感器
Laser Displacement Sensor

公司拥有信誉良好全球客户基础，产品销往40多个国家及地区，已成为多家国内外著名品牌客户的重要供应商。

We have reputable global client base . Our products are exported to more than 40 countries and regions. We have also become a key supplier for a number of well-known brands clients in the globe.


英国 England
德国 Germany
捷克 Czechoslovakia
法国 France
意大利 Italy
以色列 Isarel
埃及 Egypt
南非 South Africa
巴基斯坦 Pakistan
俄罗斯 Russia
印度 India
韩国 Korea
日本 Japan
台湾 Taiwan
香港 Hongkong
越南Korea
马来西亚 Malaysia
新加坡 Singapore
澳大利亚 Australia
加拿大 Canada
美国 U.S.A
巴西 Brazil


哈尔滨 Haerbin
北京Beijing
韩国Korea
日本Japan
西安Xi'an
南京 Nanjing
武汉 Wuhan
上海Shanghai
舜宇光学科技
SUNNY OPTICAL
成都 Chengdu
长沙 Changsha
台湾 Taiwan
昆明 Kunming
中山 Zhongshan
深圳 Shenzhen
香港 HongKong
美国 U.S.A

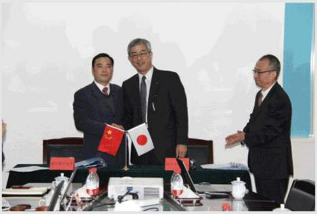
公司在北京、上海、深圳、南京、哈尔滨、成都、武汉、长沙、昆明、西安和台湾、香港、美国、日本、韩国、越南等国家和地区设立了营销和技术支持,客户服务中心。

We have established marketing, technical support and customer service centers in Beijing, Shanghai, Shenzhen, Nanjing, Haerbin, Chengdu, Wuhan, Changsha, Kunming, Xi'an, Taiwan, Hongkong, USA, Japan Korea, Vietnam.etc.

Sunny Optical Technology

联盟与合作

公司积极开展在共赢基础上的合作和联盟，通过与国际战略投资机构、知名光电企业和高等院校科研院所，在市场、技术等领域开展广泛合作，提升公司综合竞争能力。



与日本柯尼卡美能达公司签订战略合作协议.

We signed a strategic-partnership agreement with Konica Minolta Holdings, Inc.

国际著名光学企业代表访问舜宇

Delegates of famous optics enterprise visited Sunny

公司举行客户答谢活动以加强沟通,推进合作

We held"Customer Appreciation and Celebration Party" to strengthen communication and promote collaboration.

GLOBAL PARTNERSHIPS

Actively developing alliance and collaboration on the basis of benefiting for both parties.We are also improving our comprehensive competitiveness through widely collaboration with international institutes of strategy and investment, well known optoelectronic enterprise and advanced scientific research institute, etc.

通过与中科院、浙江大学、清华大学、上海理工大学等高校及科研机构建立长期、稳定的技术合作，公司的研发实力得到进一步提升。

Our research and development capabilities have been further enhanced through establishing long and stable technological collaboration with Chinese Academy of Sciences, Zhejiang University, Tsinghua University, University of Shanghai for Science and Technology,etc. and Institute of Science and Technology.

全国人大原副委员长、中科院原院长路甬祥曾四次视察舜宇

Mr.Lu Yongxiang,former VP of NPC and former Dean of CAS, had visited SUNNY for four times.

中国工程院原常务副院长、时任浙江大学校长潘云鹤考察舜宇

Mr .Pan Yunhe ,former executive vice president of Chinese Academy of Engineering, visited SUNNY when he served as the president of Zhejiang University

舜宇光学科技（集团）有限公司
Sunny Optical Technology (Group) Company Limited

金国藩、庄松林、叶声华、张钟华四位院士参加舜宇集团承担的科技部重大仪器专项启动会

The academician Jin Guofan , Zhuang Songlin , Ye Shenghua and Zhang Zhonghua participated in the launch of Ministry of Science and Technology Important Instrument Special Projects undertaken by SUNNY.

Sunny Optical Technology

社会责任

目标与原则

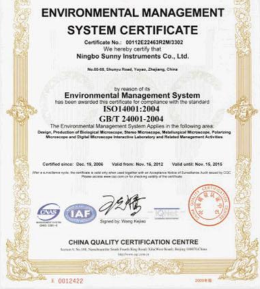
公司遵循“共同创造”的核心理念，与社会各界共同致力于社会的文明与进步，并自觉承担相应的社会责任与义务。

环境方针

公司在生产经营中严格遵守国际环境保护公约和国家环境法规，并不断通过技术创新、品质改善等措施，提高资源利用率。

Environment policy

We strictly follow the international environment protection agreements and national environment regulations during production and operation. We will continually improve the efficiency of resource by technical innovation and quality improvement.



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00112E22463R2M/3302

We hereby certify that

Ningbo Sunny Instruments Co., Ltd.

No.66-68, Shunyu Road, Yuyao, Zhejiang, China

by reason of its

Environmental Management System

has been awarded this certificate for compliance with the standard

ISO14001:2004

GB/T 24001-2004

The Environmental Management System Applies in the following area:

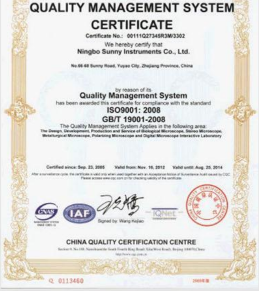
Design, Production of Biological Microscope, Stereo Microscope, Metallurgical Microscope, Polarizing Microscope and Digital Microscope Interactive Laboratory and Related Management Activities

Certified since: Dec. 19, 2006 Valid from: Nov. 16, 2012 Valid until: Nov. 15, 2015

Signed by: Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

E 0012422



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 00111Q27345R3M/3302

We hereby certify that

Ningbo Sunny Instruments Co., Ltd.

No.66-68 Sunny Road, Yuyao City, Zhejiang Province, China

by reason of its

Quality Management System

has been awarded this certificate for compliance with the standard

ISO9001: 2008

GB/T 19001-2008

The Quality Management System Applies in the following area:

The Design, Development, Production and Service of Biological Microscope, Stereo Microscope, Metallurgical Microscope, Polarizing Microscope and Digital Microscope Interactive Laboratory

Certified since: Sep. 23, 2005 Valid from: Nov. 16, 2012 Valid until: Aug. 25, 2014

Signed by: Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Q 0113460

RoHS Compliant

CE

GS

ISO18001 : 2007

ISO13485 : 2003

ISO/TS16949 : 2009

ISO14001 : 2004

QC080000 : 2001

ISO27001 : 2013

ESD20.20 : 2014

OHSAS18001 : 2007

ISO9001 : 2008

SOCIAL RESPONSIBILITIES

Mission and Principle

In respect of the core value "Collaborative Creation", we create a civilized and progressive society with the communities and take on the social responsibilities and obligations self-consciously.

社会公益

舜宇相信，企业是社会的细胞，因社会母体的哺育而成长，同时也肩负回报社会的责任。舜宇积极支持教育、慈善、环保等公益事业，支援社区建设和新农村建设等社会公共事业。

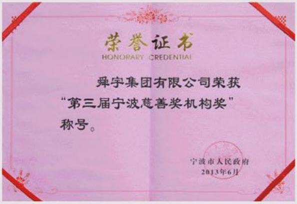
Contribution to the society

We believe that the enterprise is a cell of society and will grow with society. Enterprise should also take the responsibility of repaying the society. We actively support education charity,environmental protection, other public welfare undertakings and social public utilities such as urban community construction and rural area construction.

公司员工踊跃参加义务献血
Staff actively participate in voluntary blood donation

公司在余姚中学和浙江大学设立"舜宇助学基金"、"舜宇奖学金"
We established " Sunny Bursary Fund " and "Sunny Scholarship" in Yuyao Middle School and Zhejiang University

公司为汶川地震救灾捐款100万元人民币
Donated one million Rmb for Wenchuan earthquake relief


荣誉证书
HONORARY CREDENTIAL

舜宇集团有限公司荣获
"第三届宁波慈善奖机构奖"
称号。

宁波市人民政府
2013年6月

公司荣获"宁波慈善机构奖"称号
Won the title of "Ningbo Charity Award"

Sunny Optical Technology

CONGRATULATIONS ON THE
LISTING OF SUNNY OPTICAL
TECHNOLOGY (GROUP) COMPANY LIMITED
恭賀舜宇光學科技(集團)有限公司上市
上日收市 PREV CLOSE 2599.41 (+17.10)

Sunny Optical Technology (Group) Co., LTD. with code 02382 is successfully listed on HongKong Stock Exchange Main Board on June 15th, 2007.

2007年6月15日，舜宇光学科技（集团）有限公司（02382HK）在香港联交所主板成功上市.

$1,000,000.00
舜宇光學科技(集團)有限公司

Sunny Optical Technology (Group) Company Limited
舜宇光学科技(集团)有限公司
GLOBAL OFFERING

WHERE WE ARE

联系我们

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FAX : 0574-62538111
E-mail : office@sunnyoptical.com
Http://www.sunnyoptical.com

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P . C . : 310052
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E-mail:soit@sunnyoptical.com

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FAX : 0574-62533811
E-mail : cage_han@sunnyoptical.com

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FAX : 0574-62553000-0511
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FAX : 0376-62553000
E-mail : office_xy@sunnyoptical.com

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TEL : 0574-57745050
FAX : 0574-57746415

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FAX : 0760-8295663
E-mail: zsyx@sunnyoptical.com

力量光学有限公司
POWER OPTICS CO.,LTD.
ADD : Rm 705 Anyang Mega Valley,799 Gwanyang 2-dong,
Dongan-gu, Anyang-si,Gyeonggi-do, Korea Zip Code 431-767
P . C . : 437801
TEL : 82 70 8233 4602
FAX : 82 31-427-3556
E-mail : shine.lee@p-optics.com

宁波舜宇红外技术有限公司
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TEL : 0574-62530985
FAX : 0574-6255300 (Ext. 6953)
E-mail : SunnyIR@sunnyoptical.com

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Nam tu Liem, hanoi, Vietnam
Cell phone: 84-16-9330-4328
Tel : 84 96 8768 811
E-mail: powerviet@p-optics.com

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SUNNY OPOTECH NORTH AMERICA INC.
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P . C . : 95110
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FAX : 0376-62553000
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Anyang-si, Gyeonggi-do, Korea.
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Mobile : 82-10-2220-0154
FAX : +82-31-337-5966
Email : allykim@sunnyoptical.com

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Sunny Instruments Singapore Pte. Ltd.
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TEL : +65 6278 8083
FAX : +65 6278 8283
Web: www.sunnyoptical.com

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TEL : 0574-62553380
FAX : 0574-62530066
E-mail : sales_sai@sunnyoptical.com

上海舜宇恒平科学仪器有限公司
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P . C . : 200233
TEL : 021-64951010
FAX : 021-64596777
E-mail : sales@hengping.com
Http:// www.hengping.com

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FAX :0574-62523070
E-mail : sales_sai@sunnyoptical.com

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SUNNY JAPAN OPTICAL CO.,LTD.
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P . C . : 104-0045
TEL : 03-5148-1106
FAX : 03-5148-1107
E-mail : dengml@sj-tokyo.com

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E-mail : francis@sunnyoptical.com