

# FRAN<sup>®</sup>

# 富兰光学

创新驱动，驱动创新  
*Innovation Driven,  
Drive Innovation*




“光学创新，助建美好生活”

*Corporate Mission: Optical Innovation to  
Build a Better Life.*

富兰光学，始终专注于光学产品的研发与制造，根据客户需求研发设计的各类高精度光学元件被广泛应用于汽车、医疗、安防、消费电子、智能家居等领域。

**FRAN  
INTRODUCT**



Fran Optics has always focused on the research and development and manufacturing of optical products. High-precision optical parts are widely used in automotive, medical, security, consumer electronics, smart home and other fields.

**TION**

## 企业概述

# COMPANY OVERVIEW

### 中国. 福州. 橘园洲工业园

园区总面积：5400平方米；

研发中心、销售中心；

### 中国. 福州. 高新区富兰光学园

园区总面积：80000平方米；（一期30000平方米已投入使用）

先进光学研发实验室、自动化生产线、检测中心、物流中心；

下属企业：福建富兰智能光学技术有限公司

福州富兰光学仪器有限公司

研发中心：韩国 & 台湾



- 1998 富兰光学首次研发出注塑光学球罩并运用在安防行业
- 2004 富兰光学正式成立，富兰光仪成立
- 2005 获得ISO9001认证
- 2008 获得ISO14001认证
- 2008 迁入橘园洲工业园，持有自主生产研发基地5400平方米
- 2017 获得IATF16949认证
- 2019 高新区光学园一期投产
- 2020 获得ISO45001认证

## JUYUANZHOU INDUSTRIAL PARK - FUZHOU - CHINA

*Area: 5400 square meters*

*R&D Center, Marketing Center*

## FRAN OPTICS PARK - HIGH-TECH ZONE - FUZHOU - CHINA

*Total Area of the Park: 80000 square meters*

*First-phase Project Area: 30000 square meters (Brought into Production)*

*Advanced Optics R&D Lab, Automatic Production Line,*

*Testing Center, Logistics Center*

**Subsidiary: FUJIAN FRAN INTELLIGENT OPTICAL TECHNOLOGY CO., LTD.**

**FUZHOU FRAN OPTICAL INSTRUMENT CO., LTD.**

**R&D Center: Korea & Taiwan**



1998 Pioneered to use injection molding optical dome covers in the security industry

2004 Fran Optics was formally established  
Fran Optical Instrument was established

2005 ISO 9001 Certification

2008 ISO 14001 Certification

2008 The factory moved to Juyuanzhou factory with own production  
R&D base of 5400 square meters

2017 IATF16949 Certification

2019 Fran Optical Park of High-tech Zone was put into operation

2020 ISO 45001 Certification

# 主营产品 MAIN PRODUCTS

## 安防 Security

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监控摄像机光学元件  
Optical Parts for Surveillance Cameras



## 汽车 Automotive

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无人驾驶激光雷达视窗  
Optical LiDAR Window for Autonomous Vehicle



激光雷达透镜  
LiDAR Optical Lens



HUD背光模组元件  
HUD Backlight Unit Optical Parts



激光雷达扫描反射镜  
LiDAR Scanning Mirror



HUD自由曲面镜  
HUD Free-Form Mirror



激光雷达旋转反射镜  
LiDAR Spinning Mirror



HUD成像镜  
HUD Combiner



车灯透镜  
Automotive Lens





## 消费电子 Consumer Electronics

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机器人激光雷达视窗  
Optical LiDAR Window  
for Robots



AR 透镜  
AR Lens



VR 透镜  
VR Lens



PIR菲涅尔透镜  
PIR Fresnel Lens



成像菲涅尔透镜  
Imaging Fresnel Lens



IR透镜  
IR Lens



智能投影仪反射镜  
Touchscreen Projector  
Mirror



路灯透镜  
LED Lens



微阵列透镜  
Microlens Array



## 医疗 Medical

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组合棱镜  
Combination of Prisms



玻璃棱镜  
Glass Prism



医疗棱镜  
Medical Prism



## 其他成像光学元件 Imaging Optical Lens

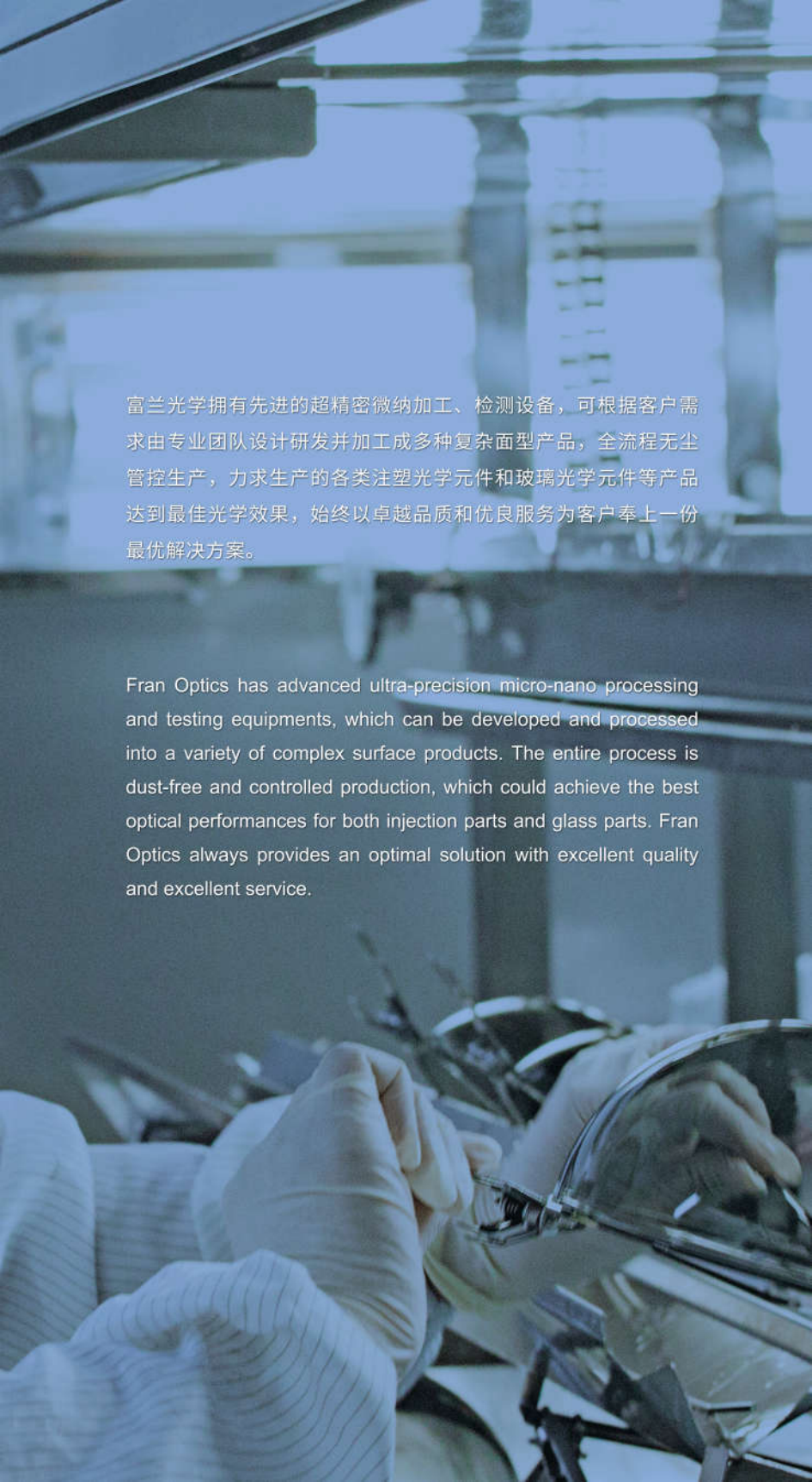
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锗透镜  
Germanium Lens



硒化锌透镜  
ZnSe Lens





富兰光学拥有先进的超精密微纳加工、检测设备，可根据客户需求由专业团队设计研发并加工成多种复杂面型产品，全流程无尘管控生产，力求生产的各类注塑光学元件和玻璃光学元件等产品达到最佳光学效果，始终以卓越品质和优良服务为客户奉上一份最优解决方案。

Fran Optics has advanced ultra-precision micro-nano processing and testing equipments, which can be developed and processed into a variety of complex surface products. The entire process is dust-free and controlled production, which could achieve the best optical performances for both injection parts and glass parts. Fran Optics always provides an optimal solution with excellent quality and excellent service.

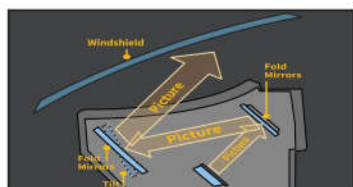


## 业务范围

## BUSINESS SCOPE

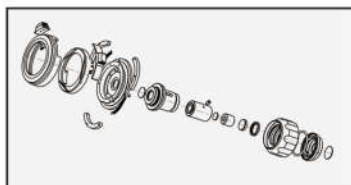
### 注塑光学元件

### Injection Molding Optical Parts



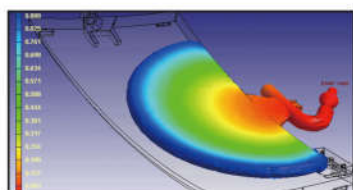
#### 光学设计

#### Optical Design



#### 产品设计

#### Product Design



#### 模具设计

#### Mould Design



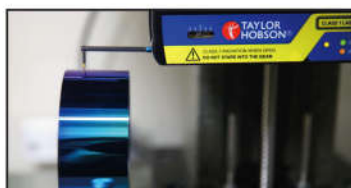
#### 注塑生产

#### Injection Molding



#### 表面镀膜

#### Surface Coating



#### 质量控制

#### Quality Control

## 玻璃光学元件

### Glass Optical Parts



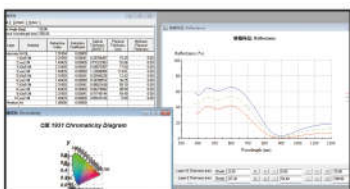
光学平面加工

Optical Plane Machining



治具设计制作

Fixture Design & Machining



膜系设计

Coating System Design



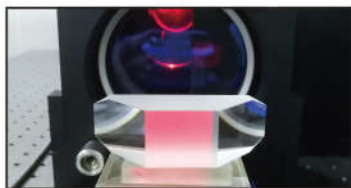
光学镀膜

Optical Coating



胶合、丝印

Cementing & Screen Printing



光学检验

Optical Inspection

技术优势

TECHNICAL ADVANTAGE

核心竞争力: 高精度自由曲面的微纳加工

Core Competitiveness: Micro-Nano Processing  
of High Precision Free-Form Surfaces

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表面精度

Surface Accuracy

**Ra<1nm**

**P-V<100nm**





## 先进表面镀膜技术

### Advanced Surface Treatment Technology



— 硬化镀膜



— 雨水自洁镀膜



— 防水汽镀膜



— 抗静电镀膜



— AR镀膜

— 金属镀膜

Hard Coating

Rain-washed Coating

Anti-fog Coating

Anti-Static Coating

AR Coating

Metallization Coating

## 超精密研发设备

## Ultra-Precision R&D Equipments

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- 超精微纳加工 Ultra-precision Micro-Nano Processing Line
- 自动化注塑线 Injection Molding Line
- 真空及化学镀膜线 Vacuum & Chemical Coating Line







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