



CERTIFICATES

资质认证



- ISO9001质量管理体系
- SPC9 (统计过程控制)
- BOMcheck 会员
- VLSI 标准片供应商
- ISO9001 Quality Control System
- Supported by Statistical Process Control
- BOMcheck Member
- VLSI's Supplier

生产设备 Manufacturing Equipment



客户群 Customer Base

4英寸蓝宝石衬底	6英寸蓝宝石衬底	8英寸蓝宝石衬底
LED 芯片制造商	高亮度LED芯片制造商 功率器件制造商 外延设备企业 研究所和大学	LED芯片制造商 功率器件制造商 外延设备企业 研究所和大学
4 inch Substrate	6 inch Substrate	8 inch Substrate
LED chip manufacturers, mainly in China.	HB-LED chip manufacturers power device manufacturers epi equipment manufacturers research institutes universities etc	LED chip manufacturers epi equipment manufacturers research institutes universities etc

检测设备 Testing Equipment



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先导赛翡(重庆)半导体有限公司
Vital Sofine Semiconductor Co., Ltd.



COMPANY PROFILE

公司简介

先导赛翡(重庆)半导体有限公司,隶属于一家全球领先并拥有稀散金属全产业链的高新技术企业——先导科技集团,公司成立于2023年6月,整合了先导科技集团和一支专业的蓝宝石团队的优势,强强联合,凭借卓越的技术实力和雄厚的储备资源优势,持续为全球客户提供业内领先的一体化解决方案。

公司主营业务为2英寸到8英寸人造蓝宝石衬底的研发、生产和销售,是全球知名LED及半导体企业的6寸/8寸蓝宝石衬底核心供应商。

Vital Sofine Semiconductor Co., Ltd. was established in June 2023, based on the combination of Vital Materials and a professional sapphire team. With advanced technical strength and strong reserve resources' advantages, the company can continuously provide an integrated solution for global customers.

The company main functions include R&D, manufacture and sales of 2inch-8inch sapphire substrates, optical parts etc. 6/8 inch sapphire substrates are provided to global LED and semiconductor companies, mainly on HB-LED, mini/micro LED and power device application.



国内最早大尺寸蓝宝石衬底研发和量产企业

First company for sapphire substrate R&D and volume production



国际标准委员会大尺寸蓝宝石衬底标准起草单位

ISO member for making the international standard of big sized sapphire substrate

MAIN PRODUCT

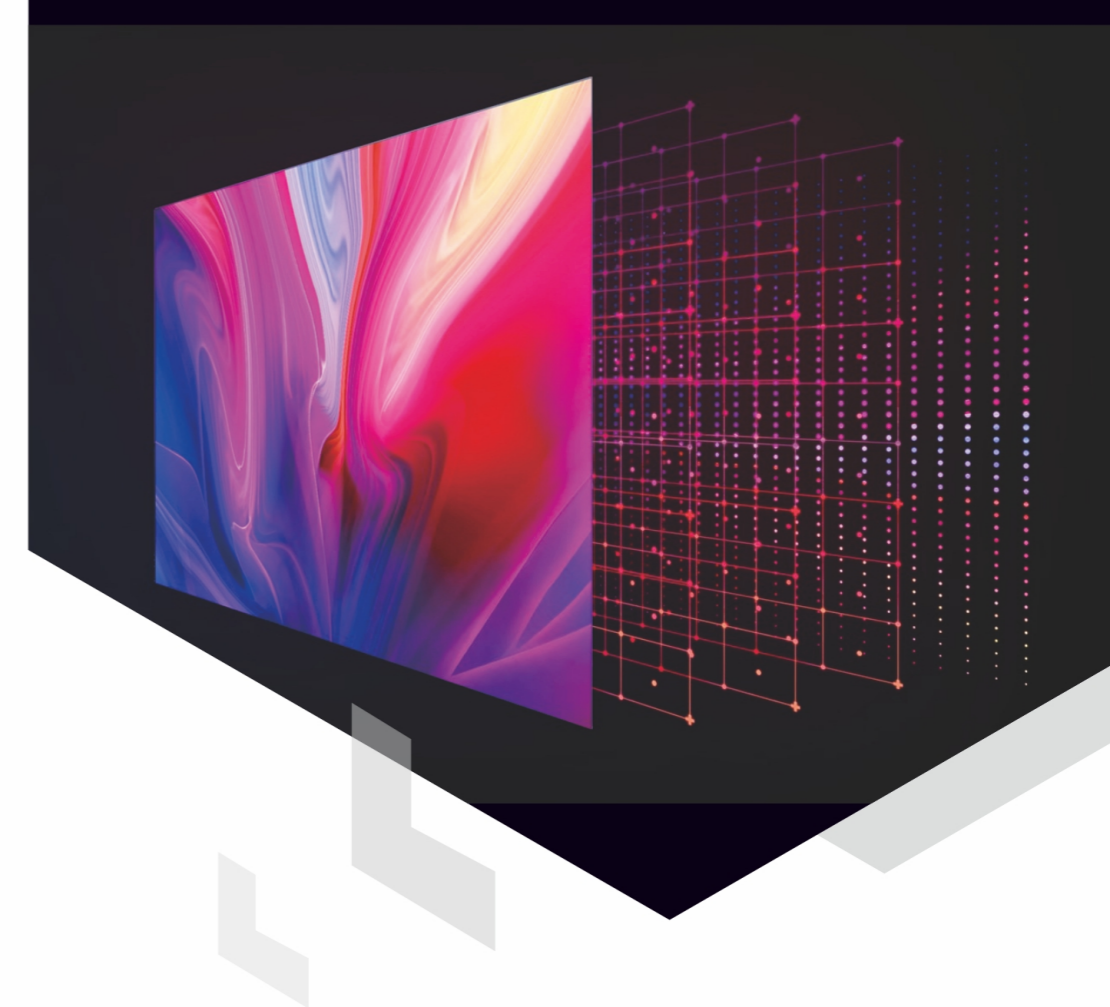
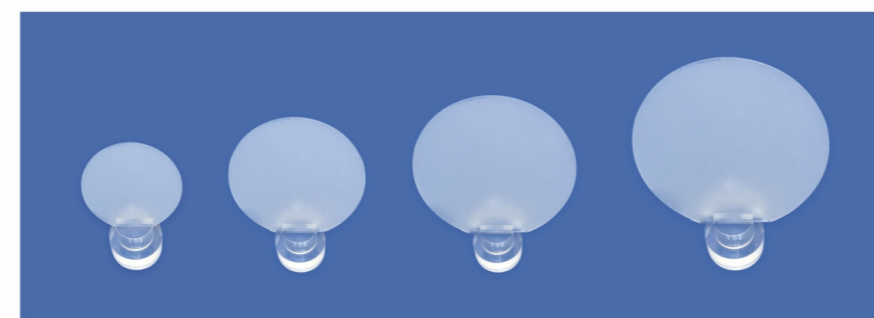
主要产品

蓝宝石衬底 Sapphire Products

先导赛翡全面引进吸收原Honeywell衬底切割、磨抛和检测技术,拥有成熟的2、4、6、8寸蓝宝石衬底加工工艺,是国内领先的可以批量生产高品质、大尺寸蓝宝石衬底的企业。

Vital Sofine Semiconductor Co., Ltd. absorbs and takes in worldwide advanced sapphire wafering technology on wire saw, lapping, polishing and inspection etc. from Honeywell. As the first company with the capability of massively manufacturing high quality and large size sapphire substrates in China, the company owns mature sapphire substrate processing technology on 2", 4", 6", 8".

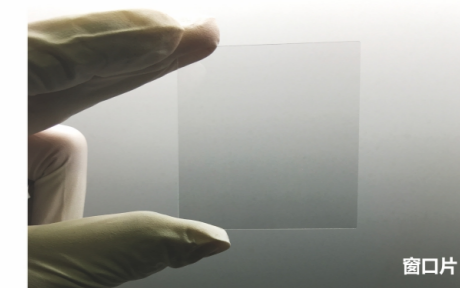
参数Parameter	Specification			
	2 inch	4 inch	6 inch	8 inch
材料 Material	> 99.996% Single Crystal Al ₂ O ₃			
晶向 Crystal Orientation	0.2° off axis ± 0.1° Towards M axis or Customized			
主定位边 Primary Flat	0° ± 0.15°			
直径 Diameter	50.8 ± 0.1mm	100 ± 0.1mm	150 ± 0.2mm	200 ± 0.2mm
厚度 Thickness	430 ± 10um	650 ± 15um	1300 ± 25um/ 1000 ± 25um	1600/1300/1000/ 800/700 ± 15um
平边长度/Notch 规格 Flat Length/Notch	16.0 ± 1.0mm	30.0 ± 1.0mm or Depth 1-1.25mm Angle 89°-95°	47.5 ± 1.0mm/ 57.5 ± 1mm or Depth 1-1.25mm Angle 89°-95°	63.5 ± 1mm or Depth 1-1.25mm Angle 89°-95°
TTV	< 5um	< 10um	< 10um	< 10um
LTV	< 1.5um(5*5mm)	< 2um(5*5mm)	< 2um(10*10mm)	< 3um(10*10mm)
BOW	-8~0um	-10~0um	-15~0um	-10~10um
WARP	< 10um	< 15um	< 20um	< 20um
正面粗度 Surface Finish	Ra < 0.3nm or Ra < 0.2nm			
背面粗度 Back Surface	Ra = 0.6~1.2um or customized			
打标 Wafer ID	Front Side/Back Side			
清洁度 Cleanliness	Free Visible Contamination			
包装 Package	In Cassettes Of 25/12			
其他 Other	According to customers' request			



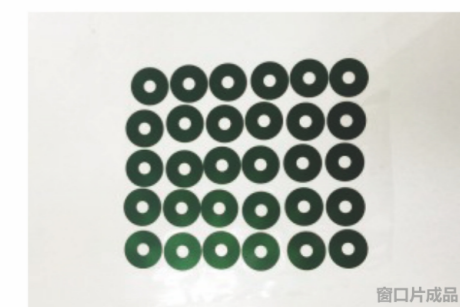
蓝宝石光学窗口片 Sapphire Optical Windows

光学窗口片采用蓝宝石,通过精密光学平面加工、外形加工、镀制光学膜、防指纹膜,产品具有耐划伤、高透过、易清洁等特性,在手机、相机等光学和数码成像领域得到广泛应用。

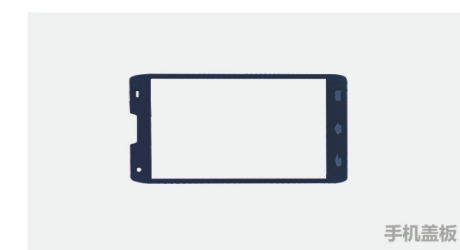
Sapphire optical windows are widely used in mobile phone, camera, optical and digital imaging, through precise optical outline processing, optical coating, fingerprint resistant coating; our products have the characteristics of scratch resistance, high transmittance, easy cleaning etc.



窗口片



窗口片成品



手机盖板