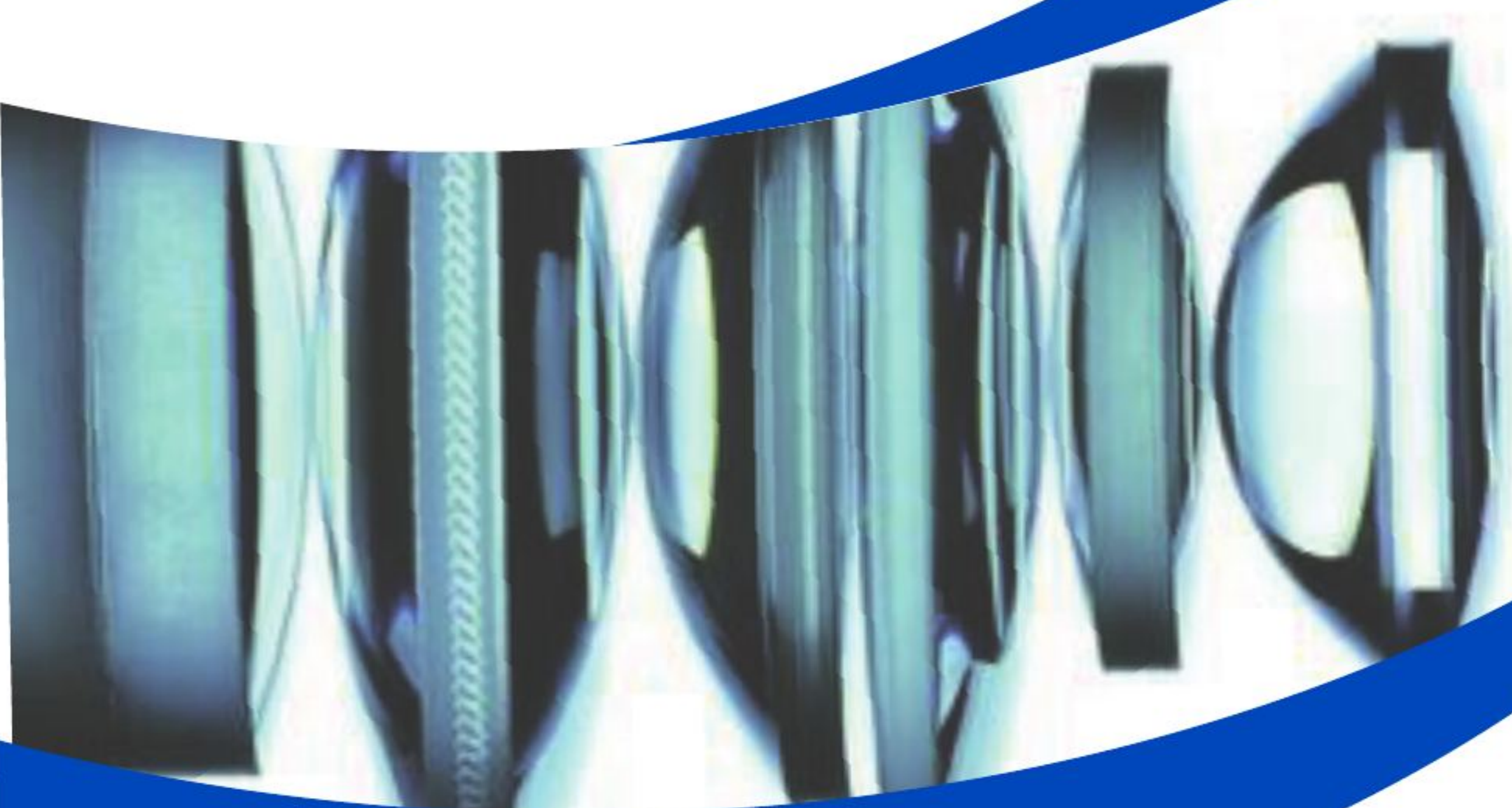




龙荣光电仪器
Longrong Optical&Electronic Instrument

OPTICAL LENS PRISM

— 光 电 透 镜 棱 镜 —



精密光学系统设计供应商/精密光学制造供应商

Precision Optical System Design Supplier/Precision Optical Manufacturing Supplier

DIRECTORY

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COMPANY PROFILE

公司简介

我们的使命

OUR MISSION

“立足创新、专注质量、诚信服务、真诚合作、共同发展”是我们始终如一追求，为客户提供优质、稳定、可靠的产品是龙荣永恒的方针。

我们将不断超越自我，一如既往地为客户创造价值，提供更优质的产品和服务！

"BASED ON INNOVATION, FOCUSING ON QUALITY, SINCERE SERVICE, SINCERE COOPERATION AND COMMON DEVELOPMENT" IS LONG RONG IS OUR CONSISTENT PURSUIT TO PROVIDE CUSTOMERS WITH HIGH-QUALITY, STABLE AND RELIABLE PRODUCTS. ETERNAL POLICY.

苏州市龙荣光电仪器有限公司

是国家军工定点合作企业之一，公司注册资本500万元，生产场地21000平方米，是专业从事球面、棱镜、滤色镜、分划板、反光镜等光学元器件的研发、生产、经营为一体的光学

公司坚定不移地立足科技创新，潜心产品技术，注重产品品质和诚信服务，汇集了一批专业技术领域的优秀人才，组成了高品质的生产队伍，在产品不断研发生产中积累了丰富的产品生产经验和精深的研发知识。

2014年新成立的洗净部，着力于球面、棱镜等光学部件的超声波洗净工艺，为后续工艺提供洁净的产品。

公司现设有多个部门：球面生产部、棱镜生产部、分划板生产部、芯取部、洗净部、镀膜部、胶合部、装配部等。

Suzhou Longrong Optical&Electronic Instrument Co., Ltd. is one of the designated cooperative enterprises in the national military industry, with a registered capital of 5 million yuan and a production site of 21,000 square meters. It is an optical enterprise specializing in the research and development, production and management of optical elements such as spherical surface, prism, color filter, reticle and reflector.

The company firmly bases itself on scientific and technological innovation, devotes itself to product technology, pays attention to product quality and sincere service, brings together a group of outstanding talents in professional and technical fields, forms a high-quality production team, and has accumulated rich product production experience and profound research and development knowledge in the continuous research and development of products.

The newly established cleaning department in 2014 focuses on the ultrasonic cleaning process of optical components such as spherical surfaces and prisms to provide clean products for subsequent processes.

The company now has several departments: spherical surface production department, prism production department, graticule production department, core picking department, cleaning department, coating department, gluing department, assembly department, etc.

光学元器件

OPTICAL COMPONENTS

广泛应用于军事、航空、天文、医药、检测、监控等领域，可根据客户需求研发与定制各种形状规格的光学元器件。

包括：斜打孔、异形棱镜、柱面镜、条状透镜棱镜等。

Widely used in military, aviation, astronomy, medicine, testing, monitoring and other fields, can be developed and customized according to customer needs of various shapes and specifications of optical components. Include oblique perforation, special prism, cylindrical mirror, strip lens prism, etc.

PRODUCT CLASSIFICATION INTRODUCTION 产品分类介绍



球面透镜

球面透镜是指从透镜的中心到边缘具有恒定的曲率，各类光学仪器的重要组成部分。

SPHERICAL LENS

Spherical lens is an important component of various optical instruments with constant curvature from the center to the edge of the lens.

CLASSIFICATION

PRODUCT



非球面透镜

非球面透镜则是从中心到边缘之曲率连续发生变化，用以改进光学品质，减少光学元件，降低设计成本。

ASPHERIC LENS

Aspheric lenses continuously change curvature from the center to the edge to improve optical quality, reduce optical components and reduce design cost.

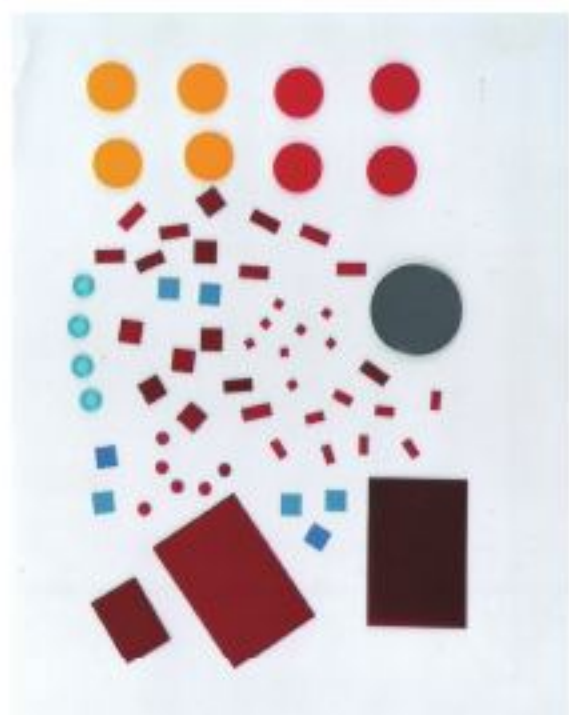


棱镜

棱镜是透明材料（如玻璃、水晶等）做成的多面体，在光学仪器中应用很广，棱镜按其性质和用途可分为若干种。

PRISM

Prisms are polyhedrons made of transparent materials (such as glass, crystal, etc.), which are widely used in optical instruments. Prisms can be divided into several types according to their properties and uses.



有色光学玻璃

又称滤光玻璃，对紫外、可见、红外区特定波长有选择吸收和透过性能，按光谱特性分为选择性吸收型、截止型和中性灰三类；按着色机理分为离子着色、金属胶体着色和硫硒化物着色三类，主要用于制造滤光器。

COLORLED OPTICAL GLASS

Also known as filter glass, it has selective absorption and transmission performance for specific wavelengths in ultraviolet, visible and infrared regions, and can be divided into three types according to spectral characteristics: selective absorption type, cut-off type and neutral ash type. According to the coloring mechanism, it can be divided into three types: ion coloring, metal colloid coloring and selenide coloring, which are mainly used to manufacture optical filters.



分划板

分划板广泛应用于军工、测量、医药、环保、教育、天文等领域。

GRATICULE

The graticule is widely used in military industry, surveying, medicine, environmental protection, education, astronomy and other fields.



显微镜镜组

物镜是由若干个透镜组合而成的透镜组，组合使用的目的是为了克服单个透镜的成像缺陷，提高物镜的光学质量。

MICROSCOPE SET

The objective lens is a lens group formed by combining two lenses. The purpose of combination is to overcome the imaging defects of a single lens and improve the optical quality of the objective lens.

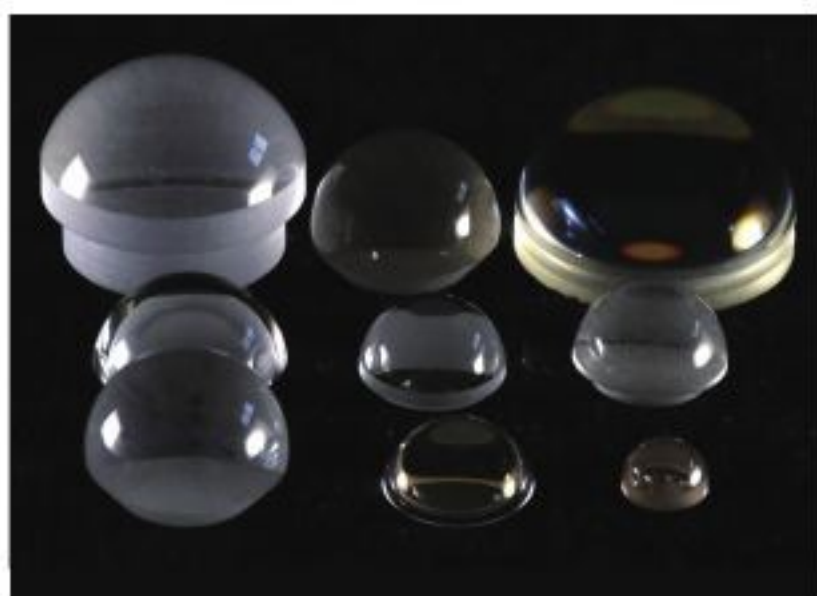
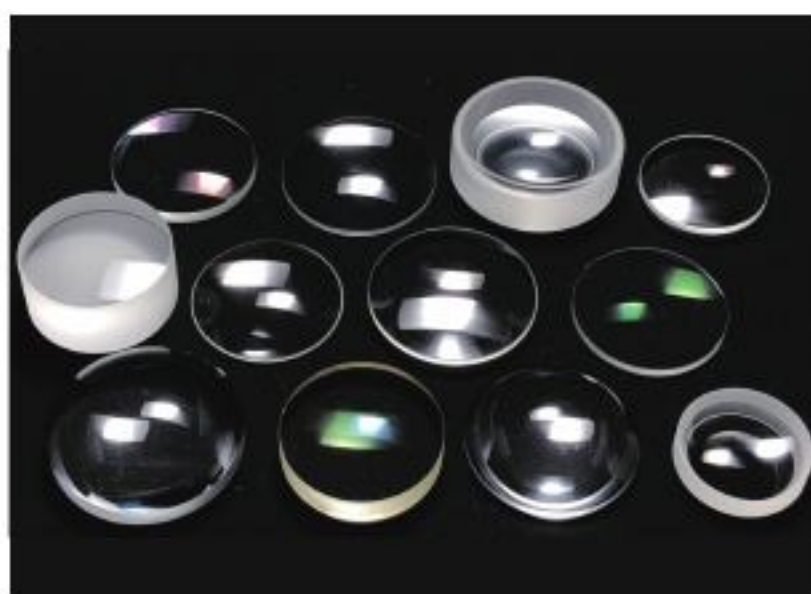
PRODUCT DISPLAY

产品展示

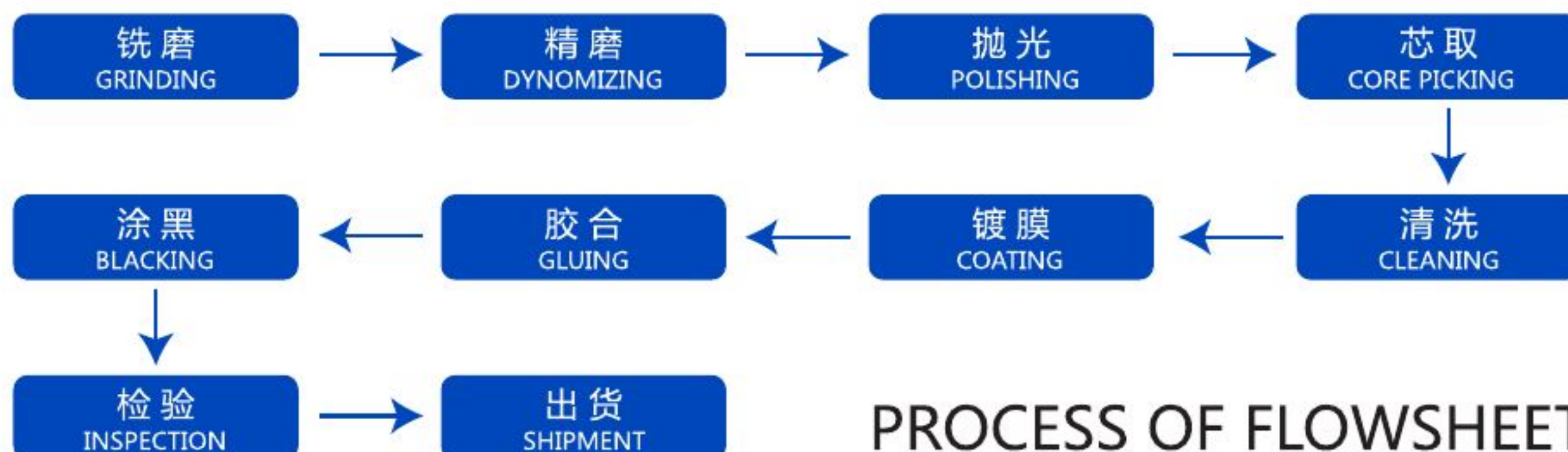
SPHERICAL LENS

- 外 径 Outer Diameter : $\varnothing 8 \sim \varnothing 300$
- R 值 Radius : $3 \sim \infty$
- 面精度 Surface Accuracy : Within $\lambda / 4$
- 偏 心 Eccentricity : 30 "

球
面
透
镜



生产流程图



PROCESS OF FLOWSHEET

PRODUCT DISPLAY

产品展示

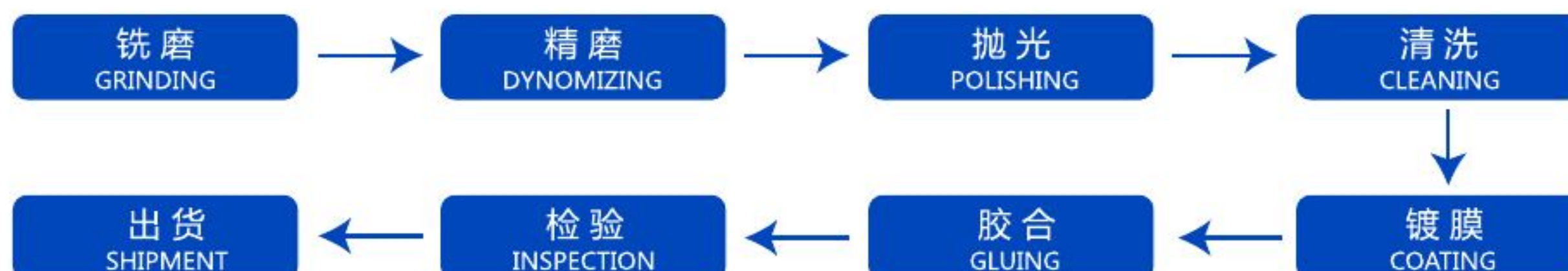
PRISM

- 角度精度 Angular Accuracy : 2 "
- 面 精 度 Surface Accuracy : Within λ
- 棱 差 Pyramid Error : 30 "
- 尺寸精度 Size Accuracy : $\pm 0.02\text{mm}$



棱
镜

生产流程图



PROCESS OF FLOWSHEET

PRODUCT DISPLAY

产品展示

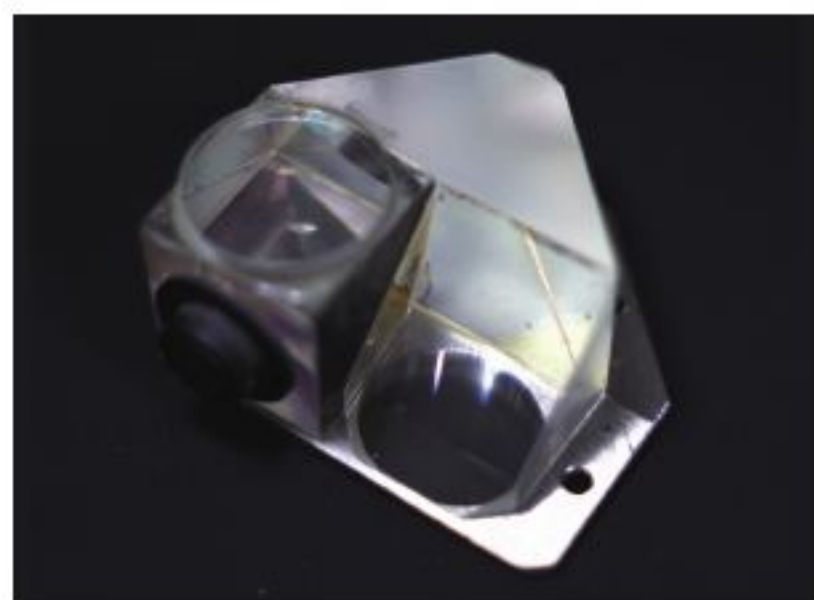
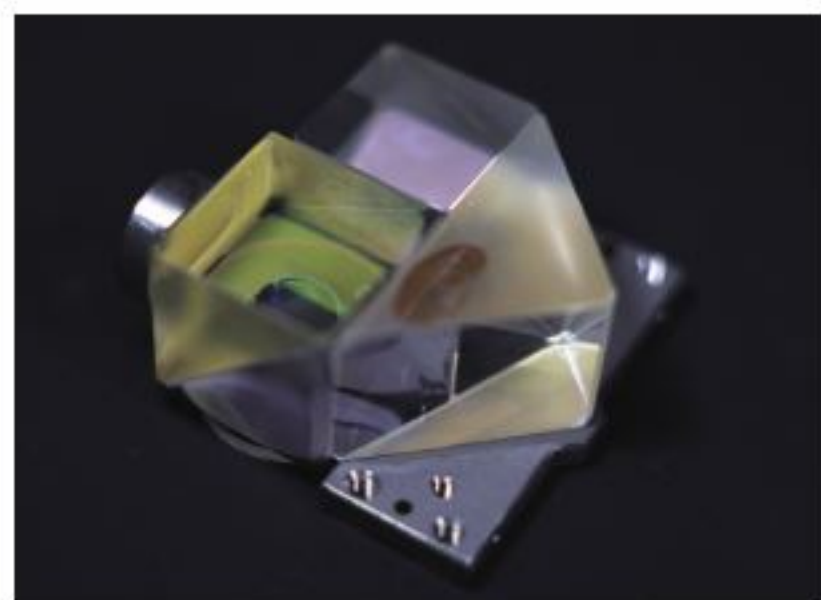
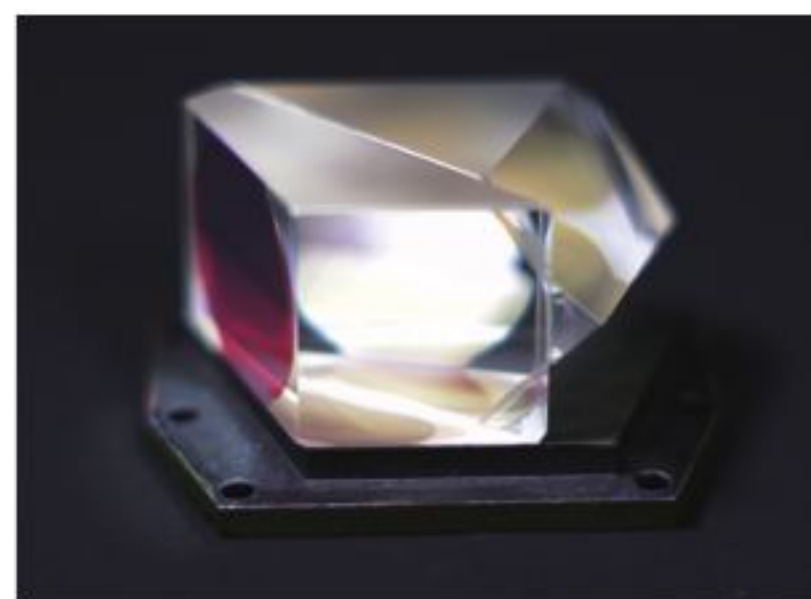
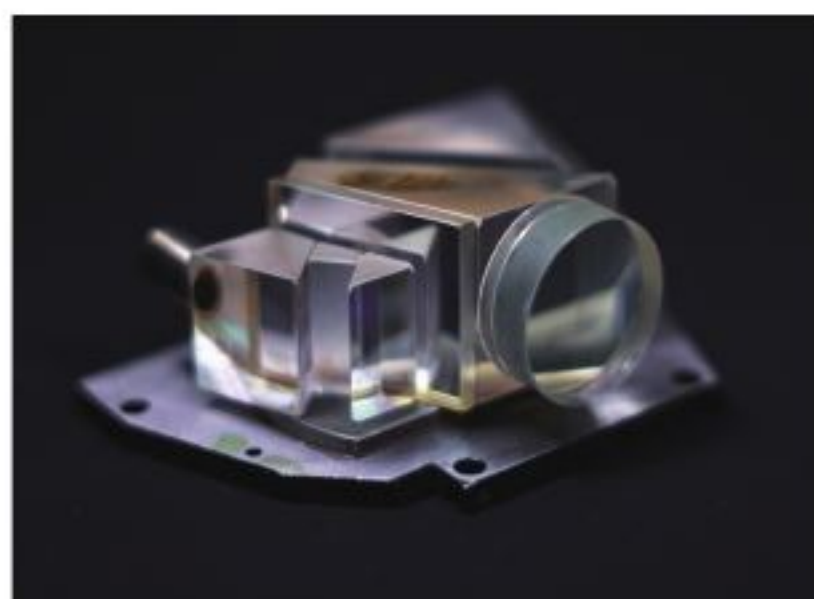
PRISM ASSEMBLY

Characteristics

Right angle prism size range: 3 mm - 150 mm

Material: N-BK7, UV fused Si O₂, CaF₂, ZnSe or Ge

棱
镜
组
件



特 性

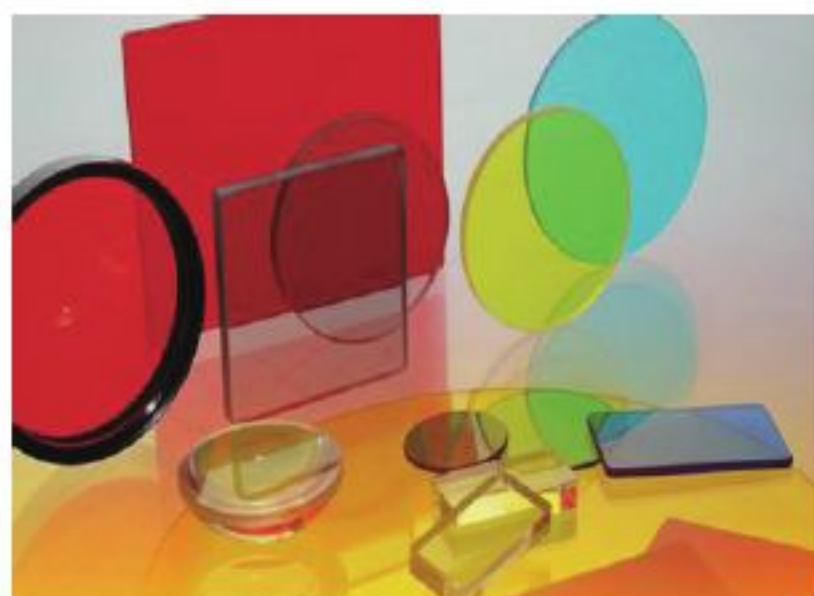
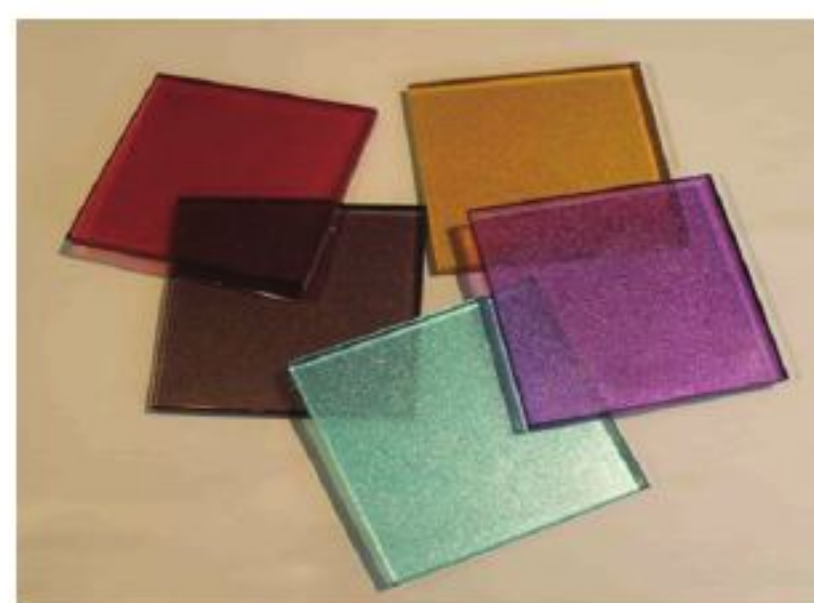
- 直角棱镜尺寸范围：3 MM - 150 MM
- 材质：N-BK7、紫外熔融石英、CAF₂、ZNSE等各款光学材料

PRODUCT DISPLAY

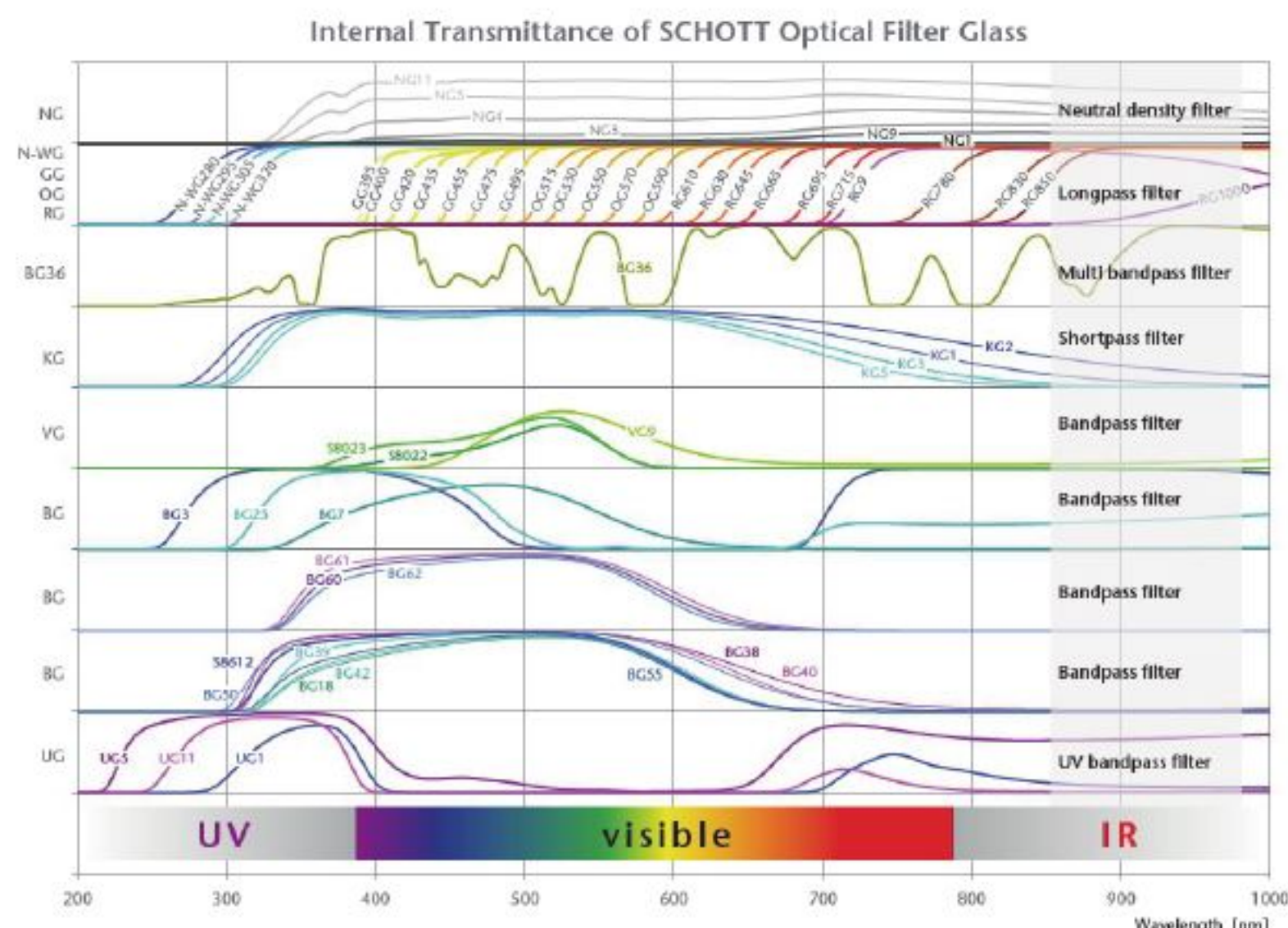
产品展示

有色滤光玻璃包括以下类型（波长范围大于200nm）

- 通带滤光片 - 具有某一波长范围的光线可穿过滤光片
- 长波通滤光片 - 具有长波波长的光线可穿过滤光片
- 短波通滤光片 - 具有短波波长的光线可穿过滤光片
- 中性密度滤光片 - 在可见光谱内，滤光片衰减恒定
- 对比度增强型滤光片 - 专为显示应用而开发的滤光片，可在全彩色显示器上实现超清晰（绿色显示器）和真彩色。
- 多频带滤光片 - 波长具有若干频带的光线可穿过滤光片



有色光学玻璃



彩色玻璃滤光片分为如下几组：

UG：蓝黑色玻璃，紫外透射

BG：蓝色，蓝绿色，以及多频带玻璃

VG: 绿色玻璃

GG：接近无色玻璃到黄色玻璃，红外透射

OG：橙色玻璃，红外透射

RG：红黑色玻璃，红外透射

NG: 可见范围内具有相同衰减的中性密度玻璃

N-WG:不同紫外截止波长的无色玻璃,
在可见及红外波段透过

KG：接近无色玻璃，在可见光波段高透过，
在红外波段有效吸收（隔热玻璃）

常用有色玻璃牌号对照表

CONTRAST TABLE OF COMMONLY USED COLORED GLASS BRAND

本厂	五机部	苏联(原)	德国	日本	本厂	五机部	苏联(原)	德国	日本
RUISEN		Former USSR	SCHOTT	HOYA	RUISEN		Former USSR	SCHOTT	HOYA
ZJB220				UV-22	QB26			BG18	
ZJB240			WG230		QB29			BG25	B-380
ZJB260	BB8	BC12			LB1	LB1	3C1	VG9	
ZJB280	BB1	BC3	WG280	UV-28	LB2	LB2	3C2	VG11	
ZJB300	BB2	BC4	WG295	UV-30	LB3	LB3	3C3		
ZJB320	BB3	BC5	WG320	UV-32	LB4	LB4	3C6		
ZJB340	BB7	BC10	WG345	UV-34	LB6	LB6	3C8		
ZJB360	BB5	BC7	WG360	UV-36	LB7	LB7	Ж3C1	VG8	G-533
ZJB380	BB6	BC8	GG375	L-38	LB8	LB8	Ж3C4		
JB400	JB2	ЖC4	GG400	L-40	LB9	LB9	Ж3C5	VG10	
JB420	JB4	ЖC11	GG420	L-42	LB10	LB10	Ж3C6		G-550
JB450	JB5	ЖC12	GG455	Y-44	LB11	LB11	Ж3C9		
JB470	JB6	ЖC16	GG475	Y-46	LB12	LB12	Ж3C10		
JB490	JB7	ЖC17	GG495	Y-48	LB13	LB13	Ж3C12		G-545
JB510	JB8	ЖC18	GG515	Y-50	LB14	LB14	Ж3C13		
CB535	CB3	OC11	GG530	O-54	LB15	LB15	Ж3C17		
CB550	CB4	OC12	GG550		LB16	LB16	Ж3C18		
CB565	CB5	OC13	GG570	O-56	LB17			VG5	
CB580	CB6	OC14	GG590	O-58	LB18			VG6	
HB600	HB9	KC10		R-60	LB19				
HB610	HB10	KC11	RG610		JB1	JB1	ЖC3	GG19	
HB630	HB11	KC13	RG630	R-62	JB9			GG10	
HB640	HB12	KC14	RG645	R-64	CB1	CB1	OC5		
HB650	HB13	KC15		R-66	CB2	CB2	OC6		
HB670	HB14	KC17	RG665		HB1	HB1	ΠC5		
HB685	HB15	KC18		R-68	HB3	HB3	ΠC8	RG6	
HB700	HB16	KC19	RG695	R-70	HB5	HB5	ΠC13		
HB720			RG715	R-72	HB6		ΠC2		
HWB760				IR-76	HWB1	HWB1	ИKC1		RM-86
HWB780			RG780		HWB3	HWB3	ИKC2	RG7	RM-90
HWB800				IR-80	HWB4	HWB4	ИKC3		
HWB830			RG830	IR-83	FB1	FB1	TC1		
HWB850				IR-85	FB3	FB3	TC3		
HWB900					GRB1	QB15	C3C14	KG2	HA-50
HWB930					GRB3		C3C16	KG3	HA-30
ZWB1	ZWB1	YφC2	UG11	U-340	PNB586	HB2	C7	BG20	V-10
ZWB2	ZWB2	YφC3	UG1	U-360	HOB445				HY1
ZWB3	ZWB3	YφC1	UG5	U-330	TB1				SL-1A
ZB1	ZB1	φC1		B-390	TB2				L-1B
ZB2	ZB2	φC6	BG3		SSB40			FG6	LB-40
ZB3	ZB3	φC7		B-370	SSB145			BG34	LB-145
QB1	QB1	CC1			SSB165			FG3	LB-165
QB2	QB2	CC2		B-410	SSB200				LB-200
QB3	QB3	CC4			SJB20			FG18	LA-20
QB4	QB4	CC5			SJB80			FG16	LA-80
QB5	QB5	CC8		B-440	SJB100				LA-100
QB9	QB9	C3C3			SJB130			FG15	LA-120
QB10	QB10	C3C5			SJB140				LA-140
QB11	QB11	C3C7	BG14		ZAB00	AB10	HC12	NG1	ND-0
QB12	QB12	C3C8		B-460	ZAB02	AB9	HC11	NG9	ND-03
QB13	QB13	C3C9			ZAB2	AB8	HC10	NG3	
QB16	QB16	C3C15			ZAB5	AB3	HC3		
QB17	QB17	C3C16			ZAB10	AB7	HC9	NG4	ND-13
QB18	QB18	C3C17			ZAB25	AB6	HC8	NG5	ND-25
QB19	QB19	C3C19			ZAB30	AB2	HC2		
QB21	QB21	C3C21	BG38		ZAB50	AB5	HC7	NG11	ND-50
QB23			BG7	B-480	ZAB65	AB1	HC1		
QB24			BG12		ZAB70	AB4	HC6	NG11	ND-70

PRODUCT DISPLAY

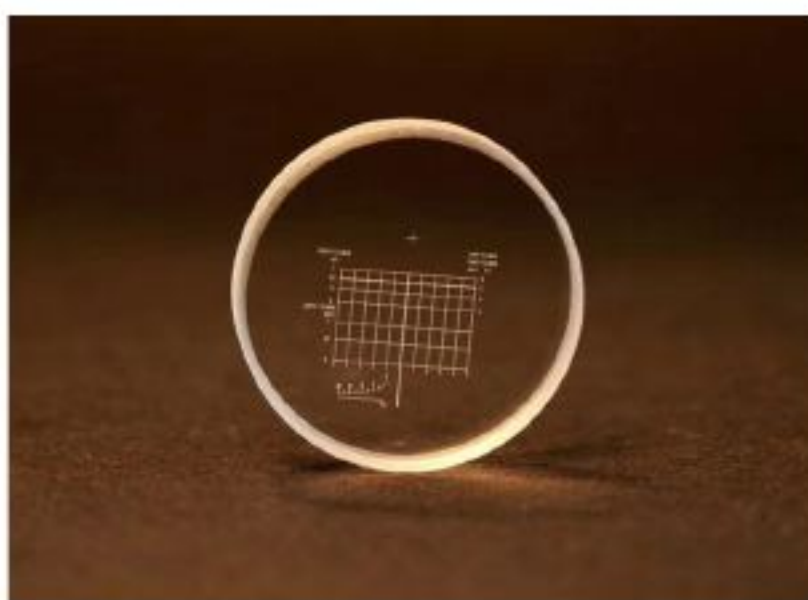
产品展示

GRATICULE

Outer diameter: $\varphi 4 \sim \varphi 300$

Minimum line diameter: $3\ \mu\text{m}$

Variety: bright field of view, dark field of view, infra-red, corrosive, photographic, etc.



- 外径： $\Phi 4 \sim \Phi 300$
- 线条最小径： $3\ \mu\text{m}$
- 品种：明视场，暗视场，红外，腐蚀型，照相型等

PRODUCT DISPLAY

产品展示

MICROSCOPE LENS GROUP

We have many CNC lathes, engraving and milling machines and other processing equipment.

The 100-class dust-free workshop ensures the cleanliness of the assembly environment, and the lens processing system ensures the quality of all kinds of lenses used in assembly.



显
微
镜
镜
头
组

金相显微镜物镜组：

1. 45MM 5倍，10倍，20倍，50倍
2. 95MM 5倍，10倍，20倍，50倍

拥有多台 CNC 数控车床，雕铣机等加工设备。

百级无尘车间保证了装配环境的洁净度，拥有的镜片加工体系保证了装配使用的各类镜片的品质。

TESTING EQUIPMENT

检测设备



万能工具显示镜
Universal tool display mirror



球径仪
Ball diameter meter



万能测角仪
Universal goniometer



UV-1700 岛津分度计
shimadzu gradiometer



UV-2401PC 岛津分度计
shimadzu gradiometer



UV-3600Plus 岛津分度计
shimadzu graduation meter



平面干涉仪
Plane Interferometer



折射率仪
Refractive



平面干涉仪
Plane Interferometer



球面干涉仪
Sphere Interferometer



球面干涉仪
Sphere Interferometer



CXY-08A 光具座
Optical Bench

OTHER OPTICAL ELEMENTS

其他光学元件



其他
光
学
元
件

根据客户需求开发和定制各种形状、规格、斜打孔、异型棱镜、柱面镜、条状透镜棱镜等

According to customer requirements, develop and customize various types, specifications, oblique drilling, special prism, cylindrical mirror, strip lens prism, etc.



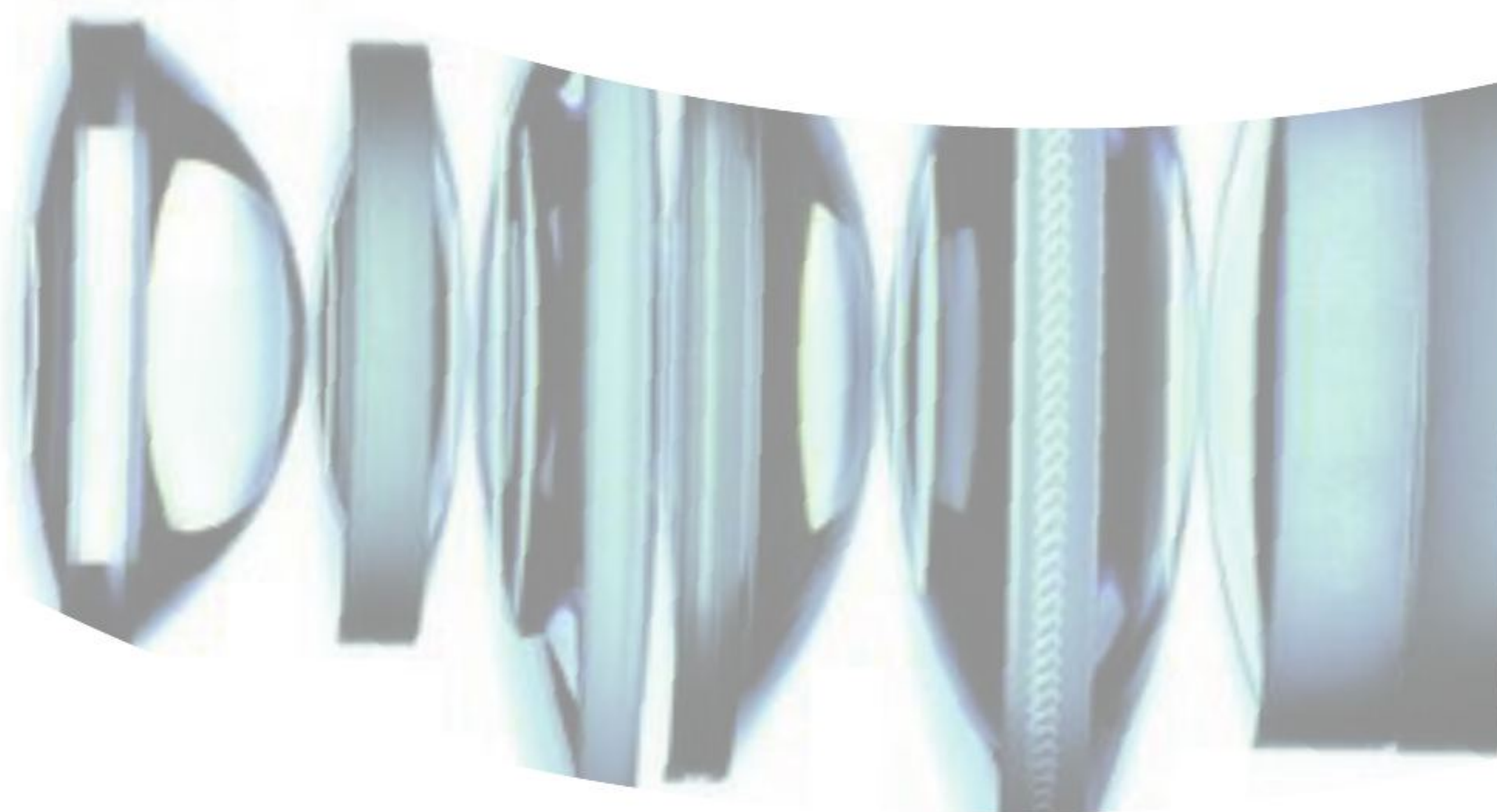
➤ **新视野 新未来**
New Vision New Future





龙荣光电仪器

Longrong Optical&Electronic Instrument



苏州市龙荣光电仪器有限公司

Suzhou Longrong Optical&Electronic Instrument Co., Ltd

地址：苏州市吴中区木胥西路18号

电话：0512-66250328

网址：<https://szlrgd.1688.com>

邮箱：gprgd@163.com

