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Changchun Yutai Optics Co., Ltd.
长春禹泰光学元件有限公司
Custom Optics Manufacturer



About Us

Changchun Yutai Optics Co.,Ltd. are specialized in the design and volume manufacturing of high performance optical components such as lenses, prisms, windows, filters, mirrors and so on. Used in optical instruments, laser systems, as well as military, telecommunications, medical, environment monitoring industry. Material is widely ranged from optical glass to IR and UV glass.



As a fast-growing supplier in Optics, Yutai Optics offers excellent service and qualified items, our products have been appreciated by many European and American customers, of course we build long-term cooperation.

Yutai Optics has quickly established itself as a leader in optical components from its advanced technology and quality control.

www.ytoptics.com



<https://ytoptics.en.alibaba.com/>



<https://ytoptics.en.made-in-china.com>



Management System Certificate



Sales Team



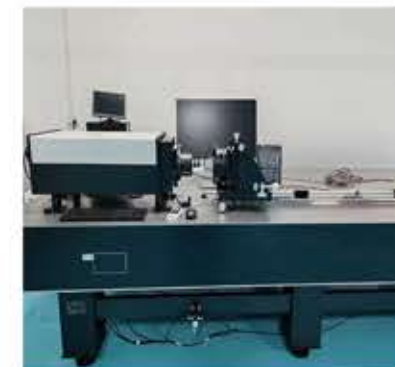
Yutai Optics has a professional sales team with excellent service, we track from inquiry to delivery of items. We try our best to meet each customers' request.

Production Team

Yutai Optics has many experienced engineers and advanced machines. They are important guarantee for the higher quality products. Our advanced production machines list: ring polishing machine, single axis machine, two axis machine, four axis machine, centering edging machine, mechanical milling machine, spectrograph grinding machine, nanotech.250upl, talysurfi120.



Inspection Team



Advanced testing equipments and methods are important guarantee for the production of high-precision products. Our testing machine is ZYGO, Stereo interferometer, horizontal interferometer. We provide with testing reports for each batch of your items.



LENS 透镜

Singlet Lens 单透镜



Material (材料): Fused Silica, CaF2 etc.
Diameter (直径): 0.45mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Centration (偏心): 3'
Clear Aperture (通光孔径): $>85\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

Doublet Lens 胶合透镜



Material (材料): 2 kinds of optical glass
Diameter (直径): 0.45mm-300mm
Tolerance (公差): $\pm 0.1\text{mm}$
Centration (偏心): 3'
Clear Aperture (通光孔径): $>85\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

Triplet Lens 三胶合透镜



Material (材料): 3 kinds of optical glass.
Diameter (直径): 0.45mm-300mm
Tolerance (公差): $\pm 0.1\text{mm}$
Centration (偏心): 3'
Clear Aperture (通光孔径): $>85\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

IR Lens 红外透镜



Material (材料): IR materials-Ge, Si, ZnSe, CaF2 etc.
Diameter (直径): 0.45mm-300mm
Tolerance (公差): $\pm 0.1\text{mm}$
Centration (偏心): 3'
Clear Aperture (通光孔径): $>85\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): AR, BBAR etc.

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MIRROR 反射镜

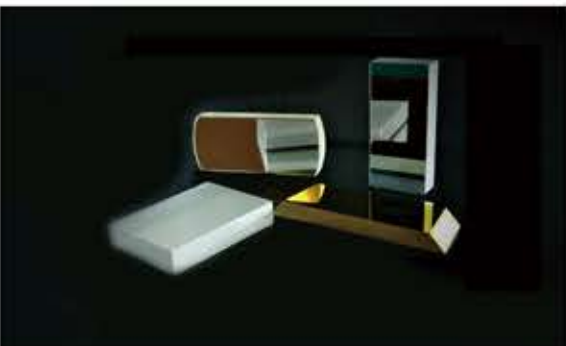
Dielectric Mirror 电介质镜



Material(材料): Optical glass
Dimension (尺寸): 2mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Reflectivity (反射率): $>99.9\%$
Coating (镀膜): Dielectric Coating

All specifications are specified by customers
(可以按客户需求定制)

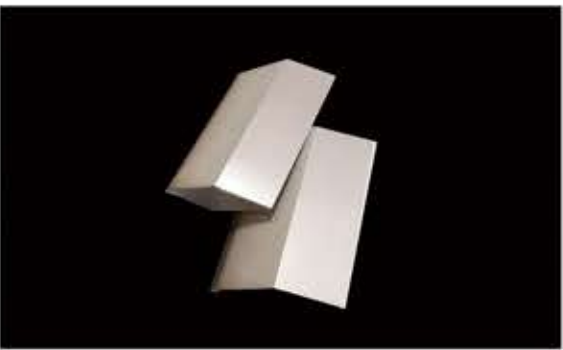
Metal Coating Mirror 金属镜



Material (材料): Optical glass or Metal
Dimension (尺寸): 2mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): Al, Ag, Au Coating

All specifications are specified by customers
(可以按客户需求定制)

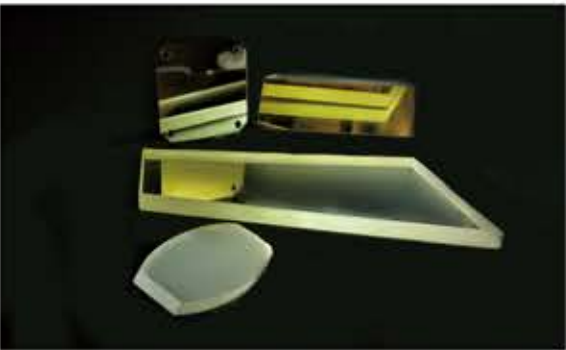
Prism Mirror 棱镜反射镜



Material (材料): Optical glass
Dimemsion (尺寸): 2mm -400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): Dielectric or Metal Coating

All specifications are specified by customers
(可以按客户需求定制)

Special Shape Mirror 异形镜



Material (材料): Optical glass
Dimension (尺寸): 2mm -400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Shape (形状): as design
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 \times 45^\circ$
Coating (镀膜): Dielectric or Metal Coating

All specifications are specified by customers
(可以按客户需求定制)



WINDOW 窗口

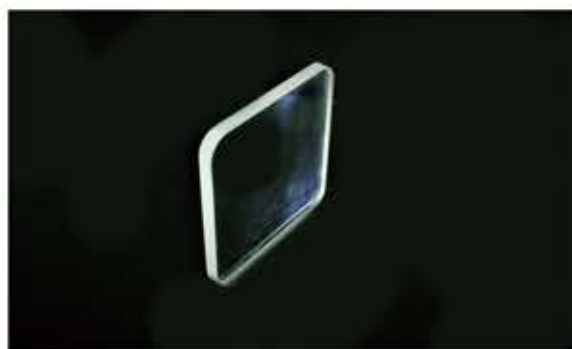
BK7 Window K9窗口



Material (材料): BK7 (K9)
Dimension (尺寸): 0.45mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Parallelism (平行度): $< 3'$
Clear Aperture (通光孔径): $> 90\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

Fused Silica Window 石英窗口



Material (材料): Fused silica (JGS1, JGS2, JGS3, Corning 7980)
Dimension (尺寸): 0.45mm-300mm
Tolerance (公差): $\pm 0.1\text{mm}$
Parallelism (平行度): $< 3'$
Clear Aperture (通光孔径): $> 90\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

Sapphire Window 蓝宝石窗口



Material (材料): Sapphire
Dimension (尺寸): 0.45mm-300mm
Tolerance (公差): $\pm 0.1\text{mm}$
Parallelism (平行度): $< 3'$
Clear Aperture (通光孔径): $> 90\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

IR Window 红外窗口



Material (材料): Ge, Si, ZnSe, CaF2 etc.
Dimension (尺寸): 0.45mm-300mm
Tolerance (公差): $\pm 0.1\text{mm}$
Parallelism (平行度): $< 3'$
Clear Aperture (通光孔径): $> 90\%$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): AR, BBAR, DLC etc.

All specifications are specified by customers
(可以按客户需求定制)



PRISM 棱镜

Triangular Prism 三角棱镜



Material (材料): BK7, fused silica, CaF2 etc.
Dimension (尺寸): 0.5mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Angle Tolerance (角度公差): $< 3'$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

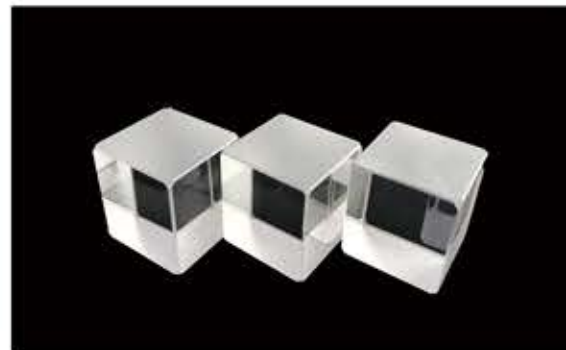
Roof Prism 屋脊棱镜



Material (材料): BK7, fused silica, CaF2 etc.
Dimension (尺寸): 0.5mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Angle Tolerance (角度公差): $< 3'$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): AR, BBAR etc.

All specifications are specified by customers
(可以按客户需求定制)

Beamsplitter Cube 分光棱镜



Material (材料): BK7, fused silica, CaF2 etc.
Dimension (尺寸): 0.45mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Angle Tolerance (角度公差): $< 3'$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/4$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): R:T=50:50, 30:70 etc.

All specifications are specified by customers
(可以按客户需求定制)

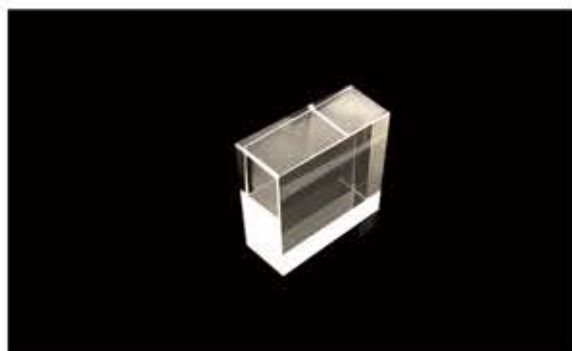
Corner Cube Prism 角锥



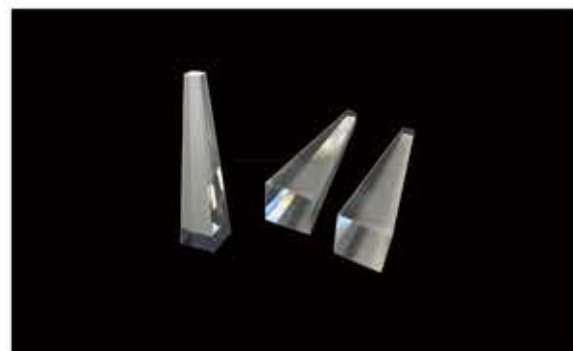
Material (材料): BK7, fused silica, CaF2 etc.
Dimension (尺寸): 0.45mm-400mm
Tolerance (公差): $\pm 0.1\text{mm}$
Beam Deviation (角精度): $< 3''$
Surface Quality (光洁度): 60/40
Flatness (面型): $\lambda/8$
Chamfer (倒边): $0.25 * 45^\circ$
Coating (镀膜): Copper Coating+Black/Silver Paint etc.

All specifications are specified by customers
(可以按客户需求定制)

Optical Glass Cube 导光块



Light Pipe Prism 光锥



Diamond Prism 平行四边形棱镜



Dove Prism 道威棱镜



Wedge Prism 楔角棱镜



Porro Prism 保罗棱镜



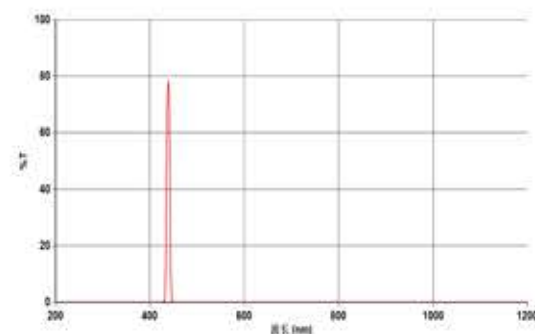
Trapezoid Prism 梯形棱镜



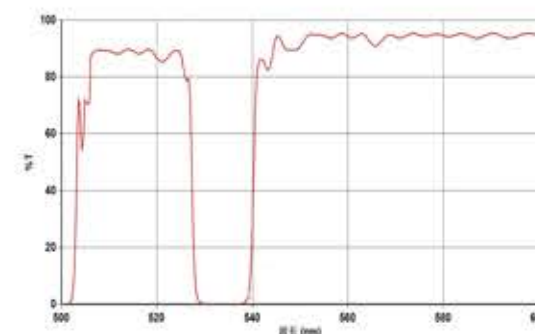
Penta Prism 五角棱镜



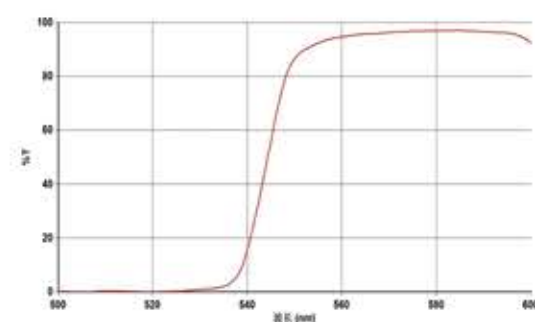
Bandpass Filter 带通滤光片



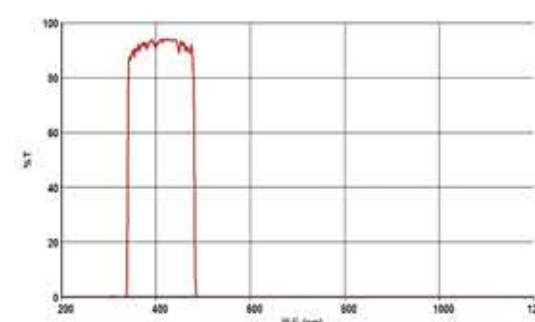
Notch Filter 陷波滤光片



Longpass Filter 长通滤光片



Shortpass Filter 短通滤光片



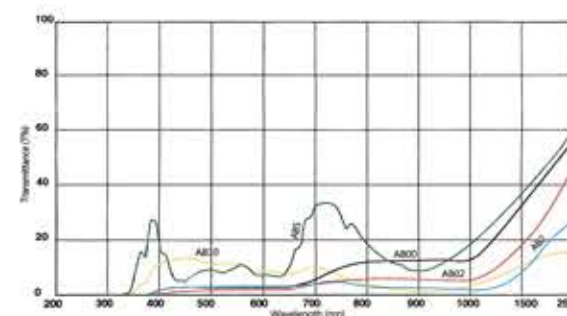
Color Glass Filter 有色玻璃滤光片



UV absorbed glass (紫外玻璃): ZWB1, ZWB2, ZWB3
 Yellow(Golden) glass (黄色玻璃): JB400, JB420, JB450...
 Orange glass (橙色玻璃): CB535, CB550, CB565, CB580...
 Red glass (红色玻璃): HB600, HB610, HB630, HB650...
 Violet glass (紫色玻璃): ZB1, ZB2, ZB3
 Blue glass (蓝色玻璃): QB1, QB2, QB3, QB4, QB5, QB9...
 Green glass (绿色玻璃): LB1, LB2, LB3, LB4, LB6...
 Heat-absorbing glass (隔热玻璃): GRB1, GRB3

All the dimensions can be customized.(可按客户需求定制)

Neutral Density Filter 中性滤光片



ND data	OD data	T
ND2	0.3	50%
ND4	0.6	25%
ND8	0.9	12.50%
ND16	1.2	6.25%
ND32	1.5	3.12%
ND64	1.8	1.56%
ND128	2.1	0.78%
ND256	2.4	0.39%

Rod Lens 棒镜



Cylindrical Lens 柱面镜



Beam Splitter Plate 分光片



Step Glass 台阶



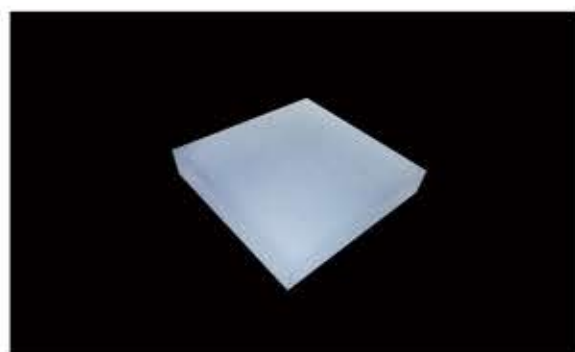
Ball and Half Ball 球和半球透镜



Dome Lens 球罩



Blank 毛坯



Nd:Yag Laser Rod 激光棒

