

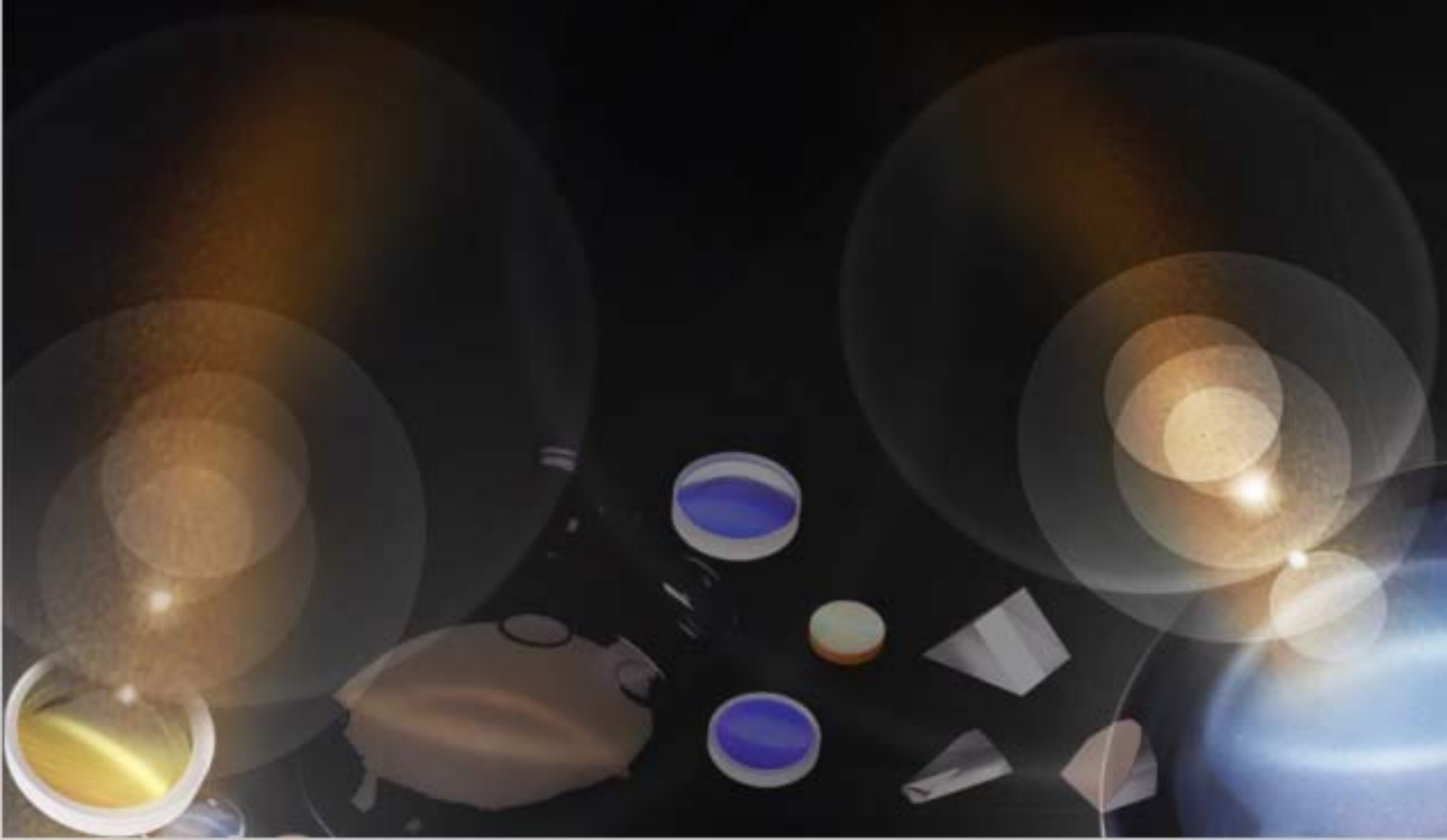


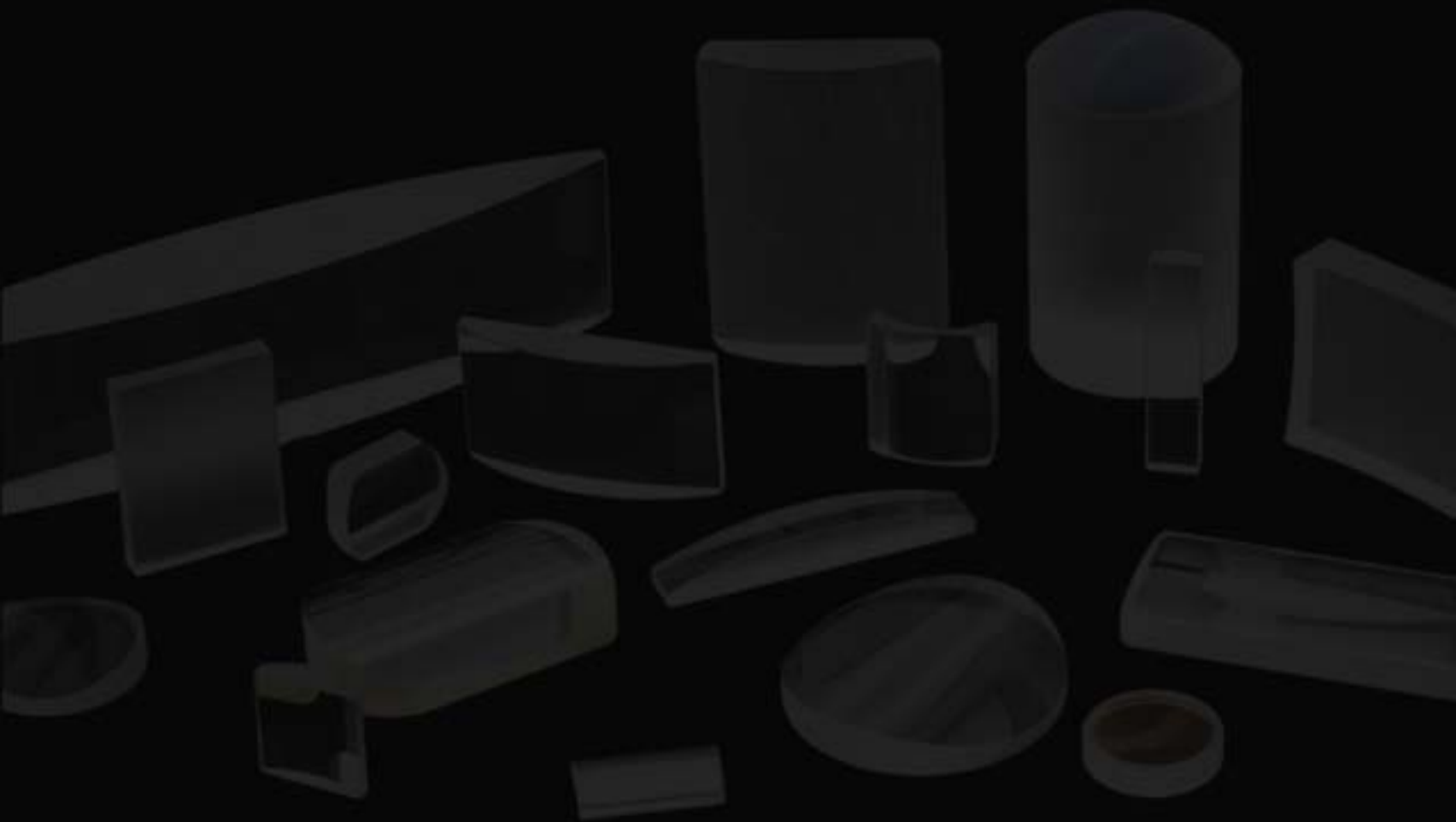
**sun optics**

**Components & Assemblies**

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**Optical Design & Manufacturing**





- Windows
- Mirrors
- Filters
- Lenses
- Prisms
- Beam Splitters
- Laser Optics
- Cylindrical Surfaces
- Aspherics Surfaces
- Crystal Optics
- UV-IR Optics



# Introduction

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Sun optics co. ltd is located in Changchun city where is famous base of optics research and development in China . We are dedicated to designing and manufacturing high quality precision optical components. We have built good cooperation with some companies from the United Kingdom, Germany, Australia, U.S.A , Israel etc. Our worldwide customers are market leaders in their segments for infrared optics applications in Aerospace , Defense and Security , Health care and life Science, Laser Material processing and Machine Vision, Enviroment Monitoring, Telecommunications etc

Since its establishment in 1997, Sun Optics Has passed through ISO9001 quality certification . Has maintained a commitment to customer satisfaction and continuous improvement . Our commitment to customer satisfaction is achieved by continuous training of our staff with focus on quality, on-time delivery, and cost reduction. From the initial customer enquiry to final delivery, meeting the customer's requirements is our primary objective.

Sun optics is your reliable partner for high quality precision optics manufactureing. We will be pleased to welcome you as one of our many satisfied customers . We are ready to provide you with best solution . If you need to know more information , please visit our website at : <http://www.sun-optics.com>

WORLDWIDE

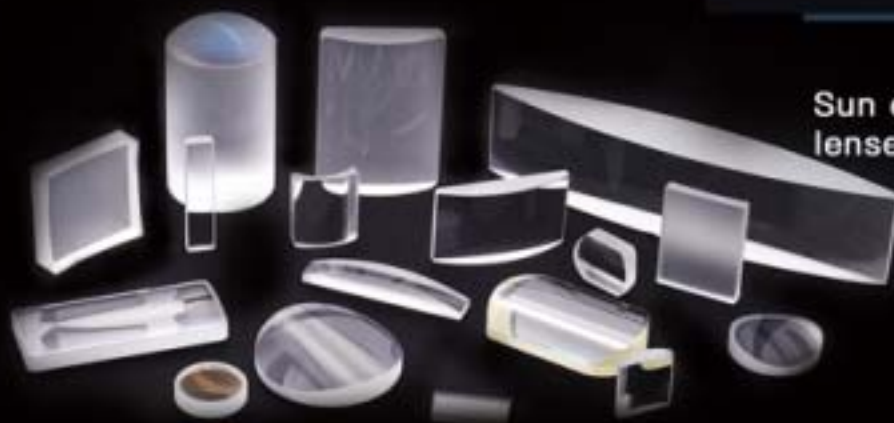
# LENSES

Sun optics custom made to your specifications .  
Lenses and Micro Lenses .Singlets, Doublets, Triplets



<b>Material</b>	BK7 or Fused Silica B270 or PYREX Ge,Si,ZnSe Crystal
<b>Forms</b>	<ul style="list-style-type: none"><li>• Plano Convex lens</li><li>• Double convex lens</li><li>• Plano concave lens</li><li>• Double concave lens</li><li>• Meniscus Lens</li><li>• Achromat Lens</li><li>• Rod lens</li><li>• Aspherical Lens</li></ul>
Focal Length Tolerance	$\pm 0.03 - \pm 0.2$
Surface Irregularity	$\lambda / 4$
Surface Quality	60/40 40/20 20/10 10/5
Centration	1' -3'
Diameter Tolerance	$\pm 0.01$ mm
Thickness Tolerance	$\pm 0.01$ mm
Clear Aperture	>90%
Coating	Coatings are available on request

## CYLINDRICAL LENSES



Sun optics custom all types of cylindrical  
lenses upon your choosing

# PRISMS

Sun optics offers three different quality standards: Standard Grade, High Grade and Laser Grade.



Material	BK7 grade Optical glass
Forms	<ul style="list-style-type: none"><li>• Roof prism</li><li>• Right Angle Prism</li><li>• Half Pentagonal prism</li><li>• penta prism</li><li>• Corner Cube Prism</li><li>• Dove Prism</li><li>• Paul prism</li><li>• Rhombic Prism</li><li>• Equilateral Prism</li><li>• Beamsplitter Penta Prism</li><li>• Wedge Prism</li></ul>
Diameter Tolerance	$\pm 0.01\text{mm}$
Clear Aperture	$> 95\%$
Angle Tolerance	$1' - 3'$
Surface Quality	60/40 40/20 20/10
Protective Bevel	$< 0.25 \text{ mm} \times 45^\circ$
Fletness	$\lambda/4$

## ATYPICALLY SHAPED PARTS

These components are quite peculiar,  
They are not the same as the ordinary parts.  
So we called them atypical parts.





## ASSEMBLY SERIES

Beam Expanders, CO2 Field lens, Focusing lens, Scanner lens ,  
Laser lens, CCD lens.

Application: Endoscope, Special monitoring, Stage lighting, Laser.

## BALL LENSES

Sun optics offers standard size ball lenses range from 1.0mm to 700mm. Custom made sizes or special materials are also available

Material	BK7 grade A, B270, UV grade Fused Silica, Sapphire etc.
Diameter Tolerance	$\pm 0.05$ mm (Standard), up to $+0.000/-0.002$ mm
Sphericity	$\pm 0.005$ mm (Standard), up to $\pm 0.6$ $\mu$ m
Surface Quality	60-40 S/D (Standard), up to 20-10 S/D

