

## Custom Optics and systems

Delfa designs and serves a wide range of custom optics. We are not only pleased to provide high volume orders but also to provide single piece custom-made part.

### Optical design software

Delfa has multi-functional optical design software, which enables us to provide best components to custom system design. The main functions of this software include:

Geometric aberration calculation of zoom lens  
Automatic correction with adaptive method  
OTF calculation with autocorrelation method  
DFT methods, Tolerance calculation etc.

### Lenses

Delfa has thousands of radius tooling for making lenses. Our customers may benefit a lot from our big tools stocks, which may be saving time and cost for prototype and small amount orders.

Materials: Please refers to Delfa "Optical material"

- Spherical Lenses
- Cylindrical Lenses
- Achromatic Lenses     Diameter: from Dia. 0.8mm to Dia. 800mm
- Doublet and triplet
- Aspherical lenses     Diameter: from Dia. 5-Dia. 100mm
- Lenses Assembly

### Windows & Wedges

Materials: Please refers to Delfa "Optical material"

Diameter: Dia. 1mm to 800mm

Thickness: as thin as 50um

Flatness: up to  $\lambda/50$  @ 632.8nm

Parallelism: up to 0.5 arc seconds

Surface quality: up to 10<sup>-5</sup> scratch and dig

### Prisms

Schmidt prisms, Penta Roof-Angle prisms, Polygonal prisms, Porro prisms, Pechen prisms, Amici-Dove prisms, Coupling prisms, Hollow Retroreflector and special prisms can be made by Delfa.

## **Polarizing Optics**

### **Coatings**

1. Single Layer  $\text{MgF}_2$  visible AR coatings
2. Multi-layer Anti-Reflection visible coatings
3. Multi-layer Broad-band Anti-Reflection visible coatings
4. IR Single Point AR coating and BBAR coating from 2 $\mu\text{m}$  to 14 $\mu\text{m}$
5. IR multi-spectrum curve from 2 $\mu\text{m}$  to 14 $\mu\text{m}$
6. Diamond Like Carbon Coating
7. Partial Reflective Coating
8. High Reflective coatings