

REALIZATIONS OF SPECIAL PORTHOLES :

SOREM is a company specialized in industrial optics since 1953. We offer the study, design and realization of your optical and **optomechanical** projects. Depending on specifications, we can advise you on the choice of materials. We get an excellent reputation within our sector of activity for the reliability of our realizations and through an organization certified to EN 9100 and ISO 9001.

Using area :

- Ultraviolet
- Visible
- Infrared
- Vacuum / Ultra high vacuum
- Environnemental restrictions (temperature, pressure, erosion,...)

Application area :

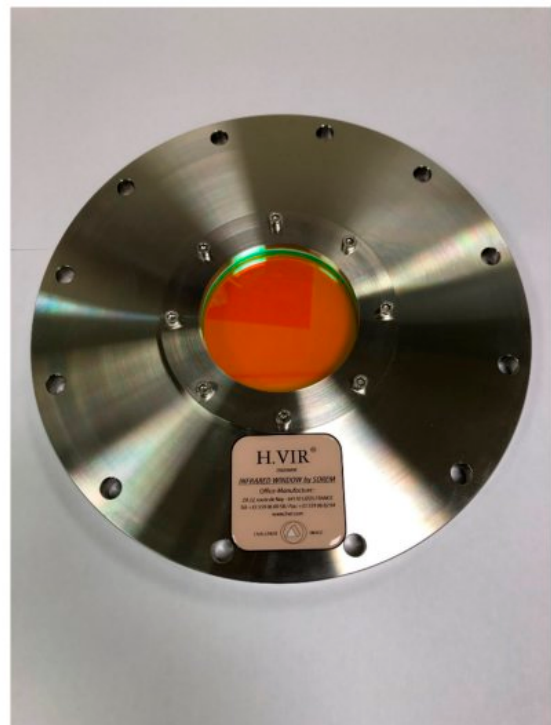
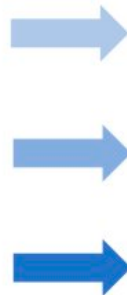
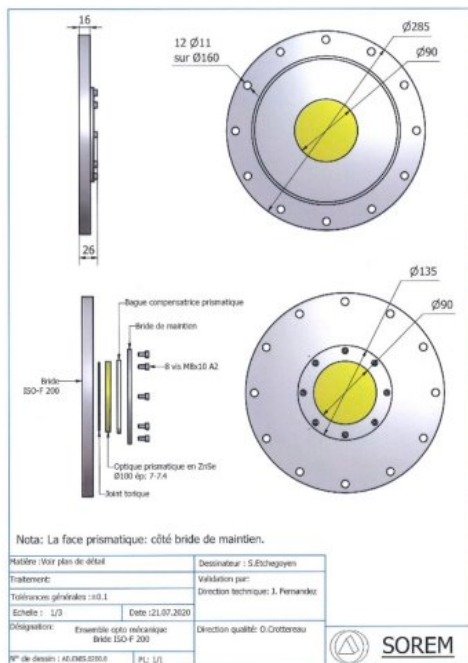
- Climatic chamber
- High pressure chamber
- Wind tunnel
- Oven
- Embedded window:
- For aeronautics
- For marine
- For defense...

Types of crystals used :

- ZnSe
- Sapphire
- Germanium
- Quartz
- CaF2
- Silica
- Pyrex
- ...

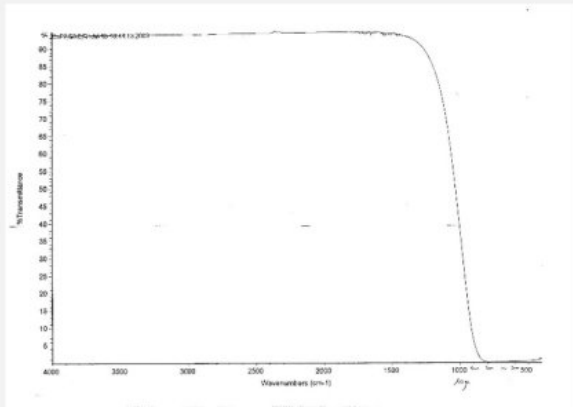
We produce any type of mechanical frame to adapt the assembly of optical parts to mechanical assemblies.

We can offer you the most suitable system according to your specifications or your needs.

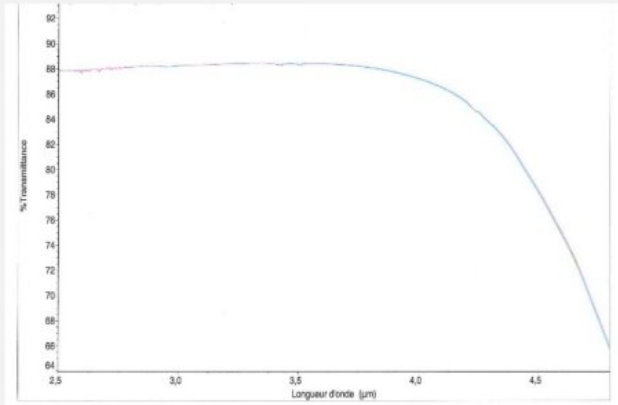


TRANSMISSION CURVES OF DIFFERENT MATERIALS:

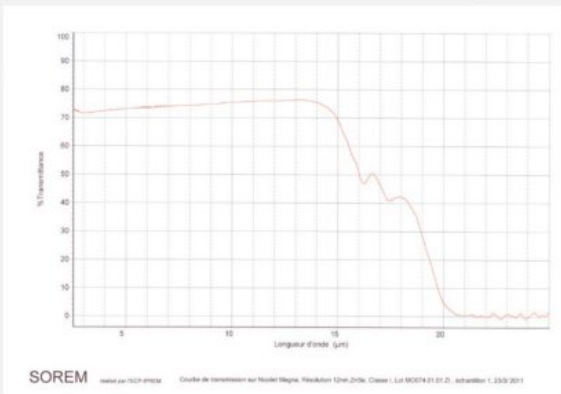
CaF2 transmission curve :



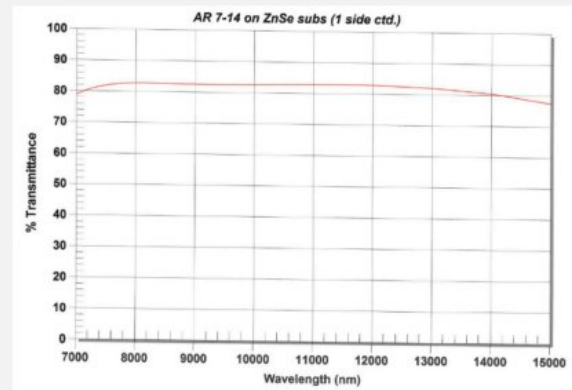
Sapphire transmission curve :



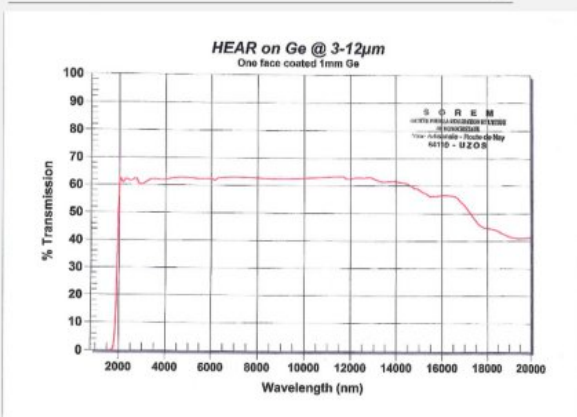
ZnSe transmission curve without AR coating :



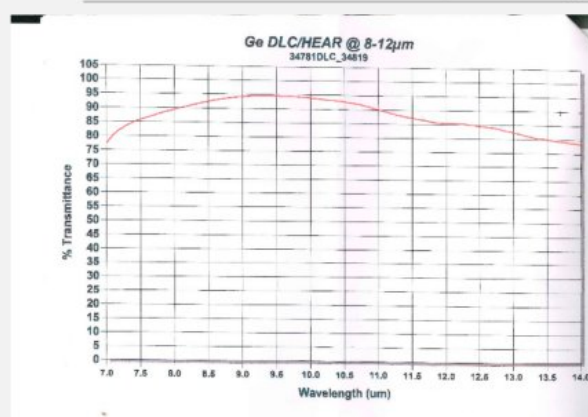
ZnSe transmission curve with AR 1 face coating:



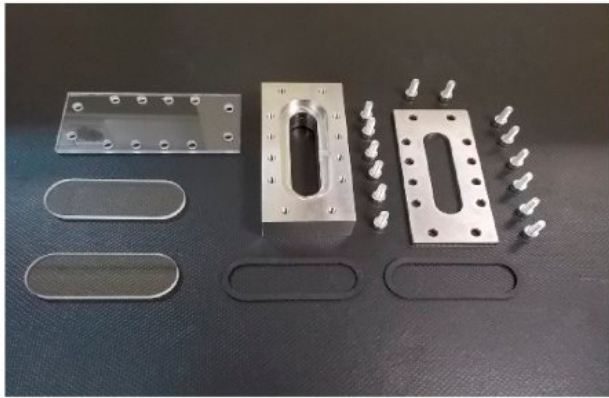
Germanium transmission curve with AR coating :



Germanium transmission curve AR/DLC coating:



EXAMPLES OF REALIZATIONS :

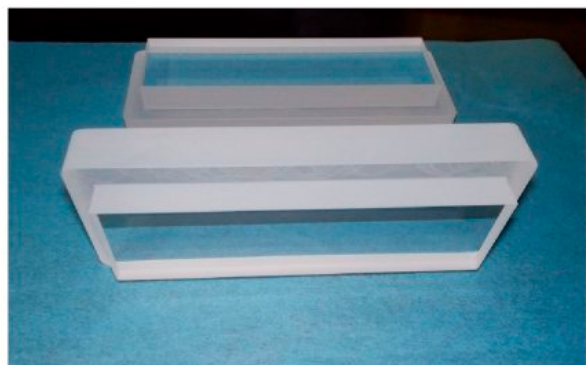
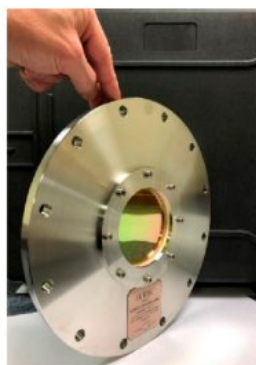
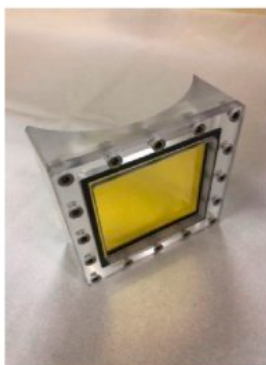


Optical assembly for pressure resistance of 6 Bar. The analysis tank is equipped with Sapphire and Lexan optics.



Ultra high vacuum flange fitted with an AR coated ZnSe disc.

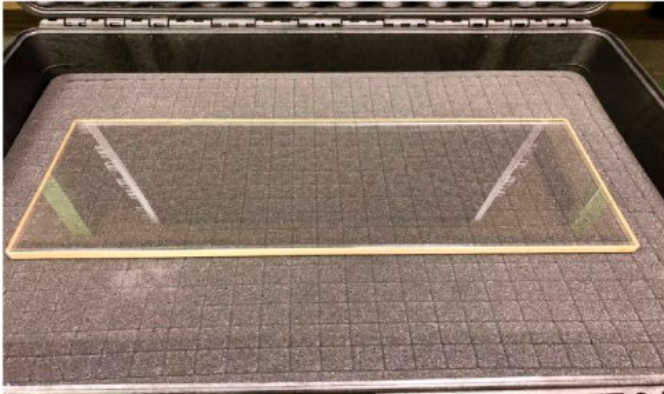
Sapphire crown for test bench.



Long wave IR window with polycarbonate frame.

Window for ultrahigh vacuum chamber with DN 200 flange fitted with prismatic.

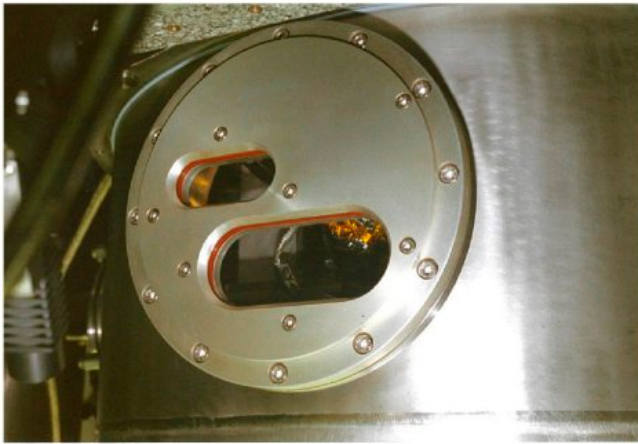
UV Silica interface window for pressure chamber.



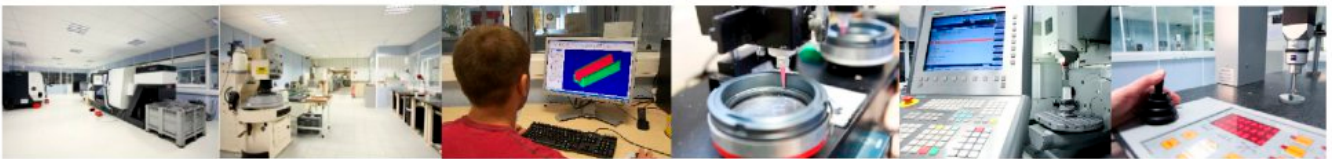
Sapphire window assembled on a high temperature enclosure.



Windows for test chamber.



IR measurement window for experiment at the Meudon Observatory.



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