



吉林省武圆光电科技有限公司  
*VY Optoelectronics Co.,Ltd.*

A dome is composed of two parallel optical surfaces. Among optics domes are unique because, unlike any other optical components, the key attribute of the dome is to have no optical effect. Mirrors reflect light, lenses bend light, domes ideally change nothing.

Typically the lead element in an optical system, a dome is often exposed to the environment. Accordingly, domes made from hard ceramic materials are preferred due to their ability to withstand wind and rain erosion. Domes are typically found in single-use defense applications and submersible vehicles for deep ocean exploration.

VY Optics could produce and design kinds of dome lens, sapphire dome lens, ZnSe dome lens, Hyper hemispherical dome lens, flanged dome lens etc.

The dome lens or hyper hemisphere dome we manufactured be used to protect the lens of underwater camera, which could resist the pressure of water, and give a best view field to catch picture.

Specification of hemisphere dome we could supply as follow:

Materials: BK7 glass, UV fused silica, sapphire, ZnSe etc.

Diameter: from 5 to 300 mm.

Diameter Tolerance: 0.1 mm, standard; 0.01 mm - attainable.

Surface Quality: 60/40 Scratch/Dig ,

Standard; 20/10 Scratch/Dig, attainable depending on material type and combination of other parameters.

Power/Irregularity: 5/1 (interference fringes)

Standard; 0.5/0.1 (interference fringes), attainable depending on material type and combination of other Parameters. Aperture 60 deg.

Decentration: 0.05mm, standard; 0.01 ,attainable.

