



Aerospace Surveillance Dome



ROV Dome



Optical Surveillance Camera Dome

Glass Dome Molding

Rayotek molded optical domes are manufactured with a proprietary non-contact glass molding technology. This process introduces no scratches or mold marks to dome surfaces. The outputs are cost effective domes with pristine surfaces that are far superior to ground & polished domes!

Domes are ubiquitous throughout industrial, military, architectural and commercial industries. The ideal optical dome is not just transparent, it is optically invisible (cannot be detected by eye or camera). The better the quality of a dome and dome material, the higher the quality of the image or light transmitting through it.

Services

Rayotek domes are available for many levels of customer needs:

Stock - standard sizes kept on the shelf & ready to ship upon order. Lead time 1-2 days

Build-to-Order - standard sizes built upon customer order. Lead time 2-4 weeks

Custom - built to spec, co-engineering with customer required. Lead time TBD

Mounting - flanged domes mounted to metal, ceramic & plastic flanges

Sealing - adaptable bonding for hermetic, high vacuum to ultra-high pressure seals

Materials

Rayotek's stock dome line is made with borosilicate glass. Build-to-order and custom domes can be made with BK7 (BSL7), chemically strengthened glass (Gorilla Glass®) and more exotic materials. For flanged domes that require metal housings, stainless steel 316, titanium, Inconel, aluminum and steel are the common options.

Features & Benefits

Size Range - 3mm to 2m diameter

Pressure Range - vacuum to 30,000PSI

Pricing - highly competitive due to proprietary molding process

On-site Technical Team - engineers, staff physicist & master optician

Experience - 24 years of manufacturing, sealing, materials mating & mounting

Engineered & Manufactured In-House - 100% at Rayotek's San Diego, USA facility

Dome Applications

AS9100D Certified & ITAR Registered

INDUSTRIES SERVED	APPLICATIONS
Aerospace & Aviation	Camera, lighting, radome & sensor
UAV & RPV	Camera & lighting covers, nose-cones for drones & missiles
Deep Sea, Marine, AUV & ROV	High pressure camera, lighting, sensor & clamshell spherical structure
Surveillance & Security	High strength, wear resistant optical camera, visible & NIR
Petroleum & Gas	Downhole (borehole) cameras & lighting covers, inverted manway covers
Optical Dome Fabricators	Low-cost molded blanks to be ground & polished by customer
Art & Architecture	Public art installations & high-end commercial architecture

NEED HELP WITH YOUR DOME DESIGN? RAYOTEK ENGINEERING IS AVAILABLE TO YOU!