

Optical Dome Application Case Book

Felix Glass Optical Dome Application Case Manual

Case 1 Deep-Sea ROV Underwater Camera Dome

Material: Sapphire Dome, wall thickness 12mm Working depth: 4500 meters deep sea Coating: Dual band AR coating for underwater low light imaging Advantage: High pressure resistance, scratch-proof, long service life in seawater

Case 2 Automotive LiDAR Hyper-Hemispherical Dome

Material: Fused Silica Quartz Spectrum: 905nm infrared LiDAR detection Advantage: Ultra-wide field of view, stable performance under -40°C low temperature

Case 3 Aerospace Airborne Surveillance Dome

Material: Sapphire optical dome Operating temperature: -60°C ~ +110°C Anti-icing & anti-scratch hard coating, anti-interference for aerial photoelectric sensor

Case 4 PTZ Security Camera Flanged Dome

Material: BK7 glass with standard AR coating Cost-effective for outdoor monitoring, waterproof flange integrated design

Case 5 Industrial Machine Vision Inspection Dome

Custom small-size hemispherical dome for automated optical inspection equipment, high uniform light transmission