

# Infrared Optical Components Application Case Manual

ZnSe / ZnS / Germanium IR Optics

## **Case 1: Industrial CO2 Laser Equipment**

Product: CVD ZnSe Laser Window

Application: Laser cutting, welding, marking machines

Advantage: Low absorption, high stability under long-time high-power laser irradiation

## **Case 2: Vehicle & Portable Thermal Imaging**

Product: CVD ZnS Multispectral Dome

Advantage: Hard structure, anti-vibration, outdoor weather resistant

Usage: Night vision camera, outdoor security thermal systems

## **Case 3: Military & Aerospace IR Systems**

Product: High-uniformity ZnS Dome & Germanium Window

Feature: Stable multispectral performance for airborne detection

## **Case 4: Industrial Infrared Temperature Measurement**

Product: Germanium LWIR Window

Usage: Online non-contact temperature monitoring equipment

## **Case 5: Medical Laser Devices**

Product: Low-loss ZnSe Infrared Optical Window

Feature: Stable optical transmission for medical laser light path systems

## **Conclusion**

Felix Glass infrared optics serve laser processing, thermal imaging, defense, medical and industrial sensing industries with stable and customizable optical solutions.