

Application Case Gallery For Sapphire Cover Glass

1. Catalog 1: Automotive Central Control Sapphire Cover Case

- Project Background: US automotive equipment manufacturer, original aluminosilicate glass often scratched by interior hard plastic parts
- Solution: 0.8mm C-plane sapphire cover, AR+AF coating, 45° chamfer edge
- Test Result: No scratch after 100,000 friction test, stable performance under vehicle temperature fluctuation
- Attached Pictures: Sapphire blank, CNC processing workshop, finished screen assembly, vehicle road test equipment

2. Catalog 2: Medical Diagnostic Touch Sapphire Glass Case

- Customer Pain Point: Ordinary glass cannot resist repeated medical disinfectant wiping, no biocompatible certification
- Custom Scheme: Medical grade sapphire substrate, AF anti-fingerprint coating, cleanroom full polishing
- Attached Pictures: Medical equipment touch screen assembly, disinfection durability test, finished sapphire parts

3. Catalog 3: AR/VR Eyepiece Protective Sapphire Cover

- Demand: Ultra-thin, low birefringence, high transmittance for optical imaging
- Scheme: 0.3mm ultra-thin sapphire, broadband AR coating
- Attached Pictures: Mini sapphire eyepiece blank, optical transmittance test equipment

4. Catalog 4: High Temperature Industrial Instrument Sapphire Sight Cover

- Working Environment: 110°C long-term continuous operation, factory workshop dust & vibration
- Advantage: Sapphire thermal shock resistance, no crack under rapid temperature change
- Attached Pictures: Industrial instrument assembled sapphire window, high temperature aging test machine

5. Customer Real Feedback (3 Standard Evaluation)

1. The Mohs 9 sapphire completely solves our long-term screen scratch failure problem on automotive equipment.
2. Medical grade sapphire passes all biocompatibility tests, matching our FDA medical device standards.
3. Small batch prototype samples support fast verification, CNC tolerance fully meets our optical precision requirements.