

CUSTOMIZED LAPTOPS FOR SURGICAL ROBOT OPERATION AND SURGERY SIMULATION

Challenge

A leading medical instrument company known for its advanced surgical robots faces challenges with real-time data processing and responsiveness during robotic-assisted surgeries. Their current computing setup limits performance, precision impact and patient safety. To improve outcomes and reduce risk, the company seeks high-speed, reliable computing solutions optimized for demanding hospital environments.

Solution

SP Integration provided powerful, customized laptop solutions designed to seamlessly integrate with medical devices such as surgical robots and advanced surgical simulation systems. These lightweight, highly mobile laptops featured the latest-generation computing platforms with built-in AI assistants to help medical professionals quickly identify complex situations and receive timely, intelligent recommendations. Backed by strong manufacturing partnerships, we fulfilled their specific requirements with low MOQs, and through competitive pricing and strategic local partnerships in Taiwan, we delivered scalable, cost-effective solutions that would be difficult for tier-1 suppliers to match.



Requirements

- NVIDIA RTX Pro for Laptop
- Intel or AMD CPU with NPU for AI processing
- IEC 60601-1 compliance
- Customized LOGO
- Medical white chassis

Benefits

- **Flexible Configurations**
Scalable specs to fit diverse workflow needs
- **Low MOQ Support**
Fully customized without high minimum order quantities

