

GCS-001

Rugged Ground Control Station Suitcase



rev: 260413
Made in Taiwan

INTRODUCTION

A Ground Control Station (GCS) is a centralized hub used to monitor, command, and control unmanned vehicles, allowing operators to receive data and make real-time decisions in the field. GCS-001 is a portable rugged control suitcase that integrates an Intel-based computing platform, a 17-inch class Full HD display, and an integrated keyboard and pointing device. It is built for mission software, live video, and payload peripherals through rich I/O such as USB and HDMI, helping operators deploy quickly and maintain a responsive control loop for UAVs, UGVs, and other unmanned systems.

FEATURES

- Powered by the 11th Gen Intel® Core™/Xeon® (Tiger Lake-H) computing platform, delivering exceptional processing power for real-time control, high-definition video handling, and intensive data logging tasks.
- 17-inch class Full HD display for clear outdoor operation (sunlight-readable panel option).
- Portable rugged suitcase form factor for fast field deployment and transport protection.
- Ruggedization options inspired by industrial GCS designs: IP-rated sealing and military-standard shock/vibration targets.
- Power endurance option: dual-battery design with hot-swap workflow concept for uninterrupted operation.
- Integrated keyboard and touchpad; supports external keyboard and mouse.
- Rich I/O expansion for peripherals and payloads: USB 3.x, HDMI and Gigabit Ethernet.
- Wireless connectivity options: Wi-Fi and Bluetooth; GNSS (GPS) option for location and time reference.
- Open software platform: supports mainstream GCS applications on Windows or Linux.