

# Unmanned Systems

## GENERATION IV GROUND CONTROL STATION

### COMMAND AND CONTROL FOR UNMANNED AIRCRAFT



L-3 Unmanned Systems' Generation IV Ground Control Station (Gen IV GCS) is a highly portable command and control station that is easily transported in the standard configuration, or can be adapted to be built into a shelter.

The standard configuration has 1350 MHz and 900 MHz frequency hopping uplinks, and an 1800 MHz downlink; all transmitted and received through the automated tracking dual-parabolic antenna array. This array is designed for 360° continuous rotation to track the unmanned aircraft during flight.

Included in the Gen IV GCS are a rugged shipping container, mission control module with slide-out payload operator monitor, payload inputs, payload controller, air vehicle controller, notebook computer with mission planning software with NEMA data output and MGRS grid and all cabling required for operation.

The Gen IV GCS can be tuned for different frequencies, and has an optional intercom system (ICS) available.

The Gen IV GCS is the preferred command and control system for L-3 Unmanned Systems' Viking 100 and 300 Tactical Unmanned Aircraft Systems (UAS) as well as the TigerShark UAS.

The Gen IV GCS can also be configured to control a variety of other unmanned aircraft. Please contact L-3 Unmanned Systems for more information.



The Generation IV GCS control panel with pull-out payload monitor extended; front view.

**UNMANNED SOLUTIONS:  
L-3 UNMANNED SYSTEMS.**



# Unmanned Systems

## GENERATION IV GROUND CONTROL STATION

### GENERATION IV GCS FEATURES

#### Standard Features

- Lightweight - Two Person Transportable
- 1350 MHz and 900 MHz Frequency Hopping Uplink
- 1800 MHz Downlink
- Onboard Automatic Antenna Tracking System
- 360° Continuous Rotation Ability
- Video Telemetry Recording and Playback
- NEMA Data Output
- MGRS Grid with Latitude, Longitude and UTM
- Laptop Computer
- Mission Planning Software
- Heads-Up Display
- Payload Inputs



The Generation IV Ground Control Station used to command and control the Viking 100, 300 and TigerShark UAS is modular in design, highly portable and is adaptable to a variety of different shelters. Dual parabolic antenna array shown; GCS components, master control module, air vehicle controller and payload controller (inset).

#### Optional Features

- Specific Frequency Adjustment for Uplink and Downlink (Command and Control)
- Intercom System (ICS)



All components of the Generation IV Ground Control Station are packed in the rugged shipping container; included with the system.

#### Unmanned Systems Headquarters

4240 International Parkway  
Suite 100  
Carrollton, TX 75007  
Tel: 469-568-2376  
Fax: 469-568-2100

#### Unmanned Systems Production Facility

9040 Glebe Park Drive  
Easton, MD 21601  
Tel: 410-820-7500  
Fax: 410-820-8500

Web: [www.L-3Com.com/UAS](http://www.L-3Com.com/UAS)



**Unmanned Systems**

**L-3.** Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.