



MGCS DEFENSE

GROUND CONTROL OPERATOR SOFTWARE
FOR TACTICAL APPLICATIONS

LOCKHEED MARTIN 
We never forget who we're working for®

MGCS DEFENSE

mGCS is our mobile ground control station, built on the million hour legacy of our larger systems. mGCS is the answer for tactical users of small unmanned aircraft. It is optimized for rapid deployment and portability using a customized hand-held controller with embedded touch screen, antenna and power pack. mGCS is universal in that it can be used with numerous types of aircraft, be it quad-copter, fixed wing or otherwise. mGCS supports interoperability through STANAG 4586, meaning it is adaptable to any type of UAS or can be used as a remote viewing terminal (RVT).

FEATURES:

- **Fly the Mission** – optimized to take care of the flight for you, leaving the operator to focus on the target.
- **Intuitive** – works just like any other app, using a simple touch screen interface to handle advanced maneuvers with the tap of a finger.
- **Tactical** – uses GPS position holding plus joystick input for covert tactical maneuvering in tight spaces.
- **Automation** – allows creation of complex missions or area searches which are executed automatically without user aid.
- **Interoperability** – uses the STANAG 4586 protocol to enable interoperability with multiple aircraft and multiple ground stations.
- **Hand-off** – supports hand off of aircraft to other STANAG 4586 enabled controllers, including VCS-4586™.
- **C4I Compatible** – automatically records all flight data, including video and stills, and can be connected to C4I systems.
- **Safety** – prompts the user with bright colored warnings and audible alerts whenever there are issues with the aircraft, or the flight parameters.
- **Remote Video Terminal** – supports distributed control of payloads and aircraft, including off-site video control and monitoring.
- **Digital Video Recorder** – supports STANAG 4609 H.264 video recording with immediate pause, rewind and review capability.
- **Multi-Vehicle** – supports fixed wing or VTOL aircraft, with real time connection, re-connection, and multiplexed control of different vehicles and sensors at the same time.
- **Data Fusion** – integrates with our Hydra Fusion Tools™ mapping software to create tactical surveillance maps in real-time.
- **GPS Denied** – integrates with Lockheed Martin Northstar™ software for positioning information when GPS is denied.

mGCS is configured to operate effectively on Windows® operating systems and is optimized for portable computing environments.

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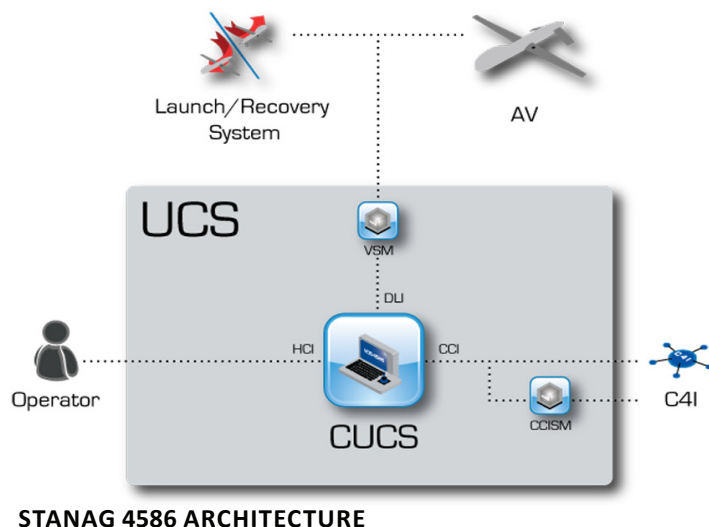
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mGCS is compatible with the Lockheed Martin Kestrel Autopilot and Micropilot® Autopilots.

