


Elevate your vision.

**THUNDER-GCS - MIL
SISTEMIKA BMS**

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SeAL- Capable Ground Control Station for Sea, Air, and Land Unmanned Systems. Designed to enhance operator awareness across unmanned systems in challenging environments, delivering a clear digital picture of the operational area.

With its true GIS-based architecture, Thunder-GCS offers unparalleled flexibility and adaptability, ensuring seamless command and control of unmanned aerial, land, water, and underwater systems.

Thunder GCS is engineered for simplicity and efficiency, making it easy for operators to manage diverse unmanned assets with minimal training while delivering comprehensive mission support, and ensuring UxV survivability. Whether in military, law enforcement, or civil applications, Thunder-GCS provides the tools to improve situational awareness, enhance operational effectiveness, and ensure mission success.

Key Benefits:

– Versatile Applications

One system, suitable for civil, law enforcement, and military operations

– Enhanced Command & Control

Integrates C2/C4I and unmanned systems for improved operational coordination

– Real-Time Intelligence

Enables data collection and exchange over public networks, MeshNet Links or SATCOM, enhancing situational awareness

– Ease of Use

Designed for single-user or multi-crew operation with minimal training requirements, reducing time and cost

– Built-in Safety

Protects unmanned vehicles from user error damage with automated safety features

– Cross-Platform Compatibility

Android, and Windows support for versatile end user device employment

– International Standards Compliance

Enables data collection and exchange over public networks, MeshNet Links or SATCOM, enhancing situational awareness

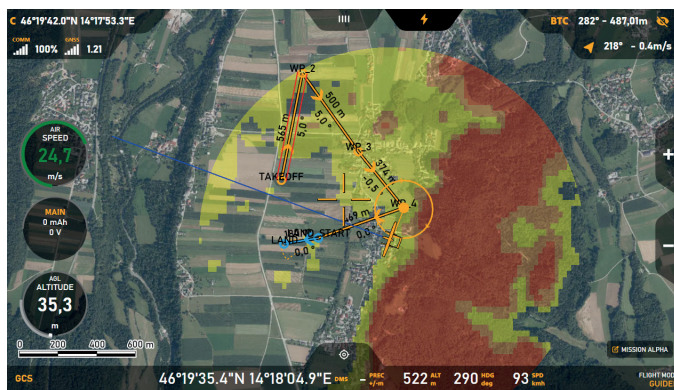
– GPS-Denied Operation

Adapted to electronic warfare environments, and other frequency contested areas

– EU-Made, NATO-Tested

Designed, built, and rigorously tested to meet NATO's operational standards

Thunder-GCS provides a comprehensive set of tools for mission planning, execution, and management, empowering operators to take control of unmanned systems with confidence, precision, and unparalleled situational awareness.



Terrain warnings

The terrain warning is a graphical feature that allows the user to easily identify areas where the terrain is too high for the UAV's current altitude.

Key Features:

- **Mission Planning**
Advanced mission planning tools for diverse operations
- **Multi-Vehicle & Multi-Platform Support**
Seamlessly manage UAVs, UGVs, and AUVs
- **Customizable Payload Integration**
ISR, CBRN sensor, and other payloads available
- **Graphical Checklists**
Multiple checklist templates to streamline operational procedures
- **Telemetry & Systems Integration**
Integrates inertial sensors, communications, and weapon systems (government clients only)
- **Video Streaming & Recording**
High-quality video recording, and live streaming capabilities of geo referenced video
- **AI-Powered Enhancements**
Utilizes artificial intelligence to optimize operator efficiency and mission effectiveness
- **Swarm Support**
Enables coordinated operations of unmanned vehicle swarms
- **Integrated Training Tools**
Customizable training modules based on real-world mission feedback

YOUR SYSTEM WITH MODULAR SOLUTIONS

Thunder-GCS has carefully tailored Packages to fit specific client's needs and budget

Thunder GCS is available in four configurations – Small (S), Medium (M), Large (L), and Extra-Large (XL) – to cater to different operational requirements and budgets.

– Small (S)

Entry-level configuration for users with basic operational needs, ideal for minimizing the risk of UxV damage

– Medium (M)

Offers a balanced feature set for more experienced operators

– Large (L) & Extra-Large (XL)

Advanced configurations with extensive customization options, requiring trained operators due to the higher complexity of mission planning and execution

Regardless of the version Thunder-GCS can be extend with specific modules

Thunder GCS is extensible, allowing operators to enhance their system as the requirements grow:

– RESTREAMER Module

Facilitates efficient video stream storage, viewing, and sharing across networks, optimizing bandwidth management for streaming multiple low/high quality videos on-demand to prevent communication congestion in critical environments

– WING COMMANDER Module

Enables advanced drone swarm management, supporting aerial, ground, water, and underwater operations

– SPECIAL PAYLOADS Module

Integrates tools for CBRN detection and advanced weapon systems (exclusive for government clients)

– WIZZO AI Module

Artificial intelligence integration that assists operators in object recognition and reduces workload by identifying potential targets or hazards



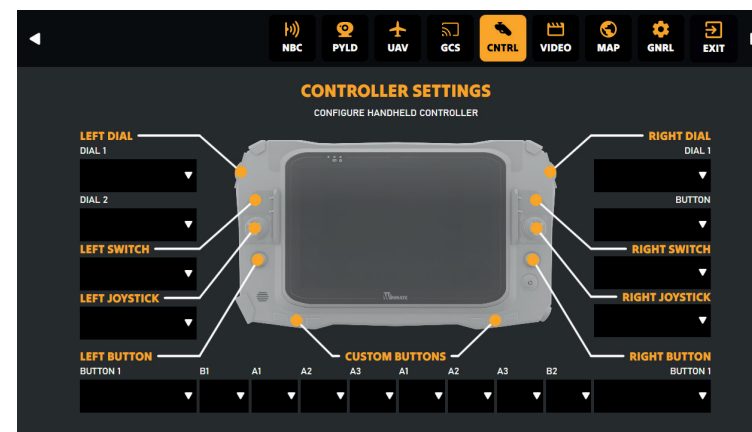
UxV Settings

UAV, UGV, Or UAS Type specific settings can be configured through graphical user interface. Users can view, set or verify important information such as battery status, minimal speed, wind resistance, and other key performance metrics.

Controller Settings

Thunder GCS will automatically recognize attached controllers.

Operator can assign and test functions to the buttons, switches, and joysticks based on the drone's specifications and the mission requirements, ensuring optimal performance.



SEAMLESS INTEGRATION WITH C2 AND C4I SYSTEMS

Thunder-GCS is an integral component of the Mil Sistemika C4I suite, working seamlessly with STORM for mission planning and LIGHTNING for on-the-ground tactical operations. The integration of these systems ensures that all levels of command—from individual soldiers to entire platoons—are synchronized and empowered with real-time intelligence, ensuring rapid, coordinated decision-making.

Storm

Top-tier mission planning tool for military operations, providing advanced symbology, mapping, mission planning, and real-time data visualization to keep operators and command staff fully informed.

Thunder

A state-of-the-art GIS based battlefield management and fire control system designed for operation planning, facilitating intelligence collection, distribution, and the coordination of various unmanned systems, including sensors and payloads.

Lightning

A lightweight solution designed for dismounted soldiers, ensuring smooth integration with Thunder and Storm systems for real-time communication and situational awareness at the tactical level.

C4I Bridge

A crucial interface that integrates diverse C4I systems into a unified network, enhancing collaborative operational capabilities from individual soldiers to larger formations.

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ELEVONX D. O. O.
PREDILNIŠKA CESTA 16
4290 TRŽIČ, SLOVENIA, EU

INFO@ELEVONX.COM
TEL: +386 (68) 694 790

ELEVONX.COM