FALCON COMMANDER

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Mobile Command & Control Platform for Unmanned Systems

→ FalconCommander is a universal command center for multi-domain operations that operates on portable devices, even on commercial off-the-shelf devices (COTS), enabling real-time control of unmanned systems.

TRADITIONAL SYSTEMS	FALCONCOMMANDER
Stationary	Mobile
Vendor-Locked Ecosystem	Universal Interoperability
Complex Logistics	Rapid Deployment
Closed Architectures	Easy Integration
High Cost	Cost-Efficient

→ FalconCommander enables tactical sovereignty in standalone operations while extending existing ground control stations with mobile command capability.

Deploy Fast. Operate Anywhere. Maintain Control.

Why FalconCommander ?

Strategic Autonomy

FalconCommander eliminates vendor dependence by decoupling software from hardware, giving you strategic sovereignty and platform freedom and unified control.

Multi-Domain Orchestration

FalconCommander can control air, land, and sea vehicles from a single interface, allowing the user to focus on the operation rather than software management.

Tactical Agility

FalconCommander runs on portable devices, enabling mission ready deployment anywhere in minutes, reducing logistics, and enabling rapid scaling.

Sustainable Lifecycle

FalconCommander eliminates costly hardware replacements, lowers maintenance needs through commercial devices, and reduces the total cost of ownership.

USE CASES

DEPLOYMENT SCENARIOS	DESCRIPTION	CONFIGURATION
Single Operator	Direct control by one operator using a portable device	FalconCommander on single portable device
Team Operation	Coordination with mission and payload operators	Single FalconCommander, multiple users
Shelter Integration	Mobile control integrated into existing shelter infrastructure	FalconCommander integrated into existing shelter systems
Shelter Modernization	Full transition to modern, mobile control	Modernization of out-of-use shelters

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Where It Runs

FalconCommander is designed to run on the devices already used in operations as well as commercial off-the-shelf (COTS) platforms. In this way it eliminates the need for heavy hardware setups. **The mission starts wherever the operator is.** Handheld consoles or other devices instantly transform into command stations - whether in the field, a vehicle, or a shelter. Without the need for fixed infrastructure, personnel reach full operational readiness within minutes.

What You See

FalconCommander provides **a browser-based interface** for mission planning, telemetry, and live video. It runs on any standard web browser, eliminating complex software deployment.
Every mission element is unified on a single screen. Operators plan routes directly on the map with real-time updates and instant alerts, maintaining situational awareness.

How It Works

FalconCommander **separates the operational backbone from the interface layer,** enabling multi-device access to a single instance via web-based clients. This architecture fits self-contained operational environments: the core runs once, operators connect without external dependencies. New vehicles, interfaces, and workflows can be added without changing the core, while data stays synchronized.

What You Control

FalconCommander operates as a **standalone C2 hub** with native direct-links or as a bridge, transforming existing systems into distributed networks. Even a single handheld device enables the seamless management of **multi-domain fleets** directly from the front line, delivering tactical superiority through continuous, mission-focused command.

Operational Flow

Launch	Open on any integrated device
Connect	Link to vehicle or existing system
Monitor	Telemetry & live video
Command	Control & mission planning
Execute	Track mission progress

Features

- Executes commands across multiple vehicles without conflicts or unsafe overlaps
- Allows operators to modify missions live, with immediate override and rollback
- Plans routes using 3D terrain while continuously evaluating signal visibility
- Keeps telemetry, video, and mission state synchronized during live operations
- Manages cameras, sensors, and payloads through a single control layer
- Isolates local faults so a single failure does not disrupt the active mission
- Continues full mission control when operating offline or air-gapped
- Supports operator handover without interrupting vehicle control or data flow

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