



SKY-WATCH

Mission Software

**Frontline-ready ISTAR, built
for contested conditions**

Mission control, AI-assisted insight and operational workflows for Sky-Watch RQ UAV platforms.

- Interoperability.
- Target handoff.
- C4I integration.

ISTAR Mission Superiority: from Edge AI to Mission Automation

Supporting the latest Military Doctrines to collect and share ISTAR data for mission success.

Sky-Watch Mission Software connects mission control, AI-assisted outputs, edge compute, interoperability and RECCE Strike workflows in one software environment — reducing friction from sensor input to operational action.

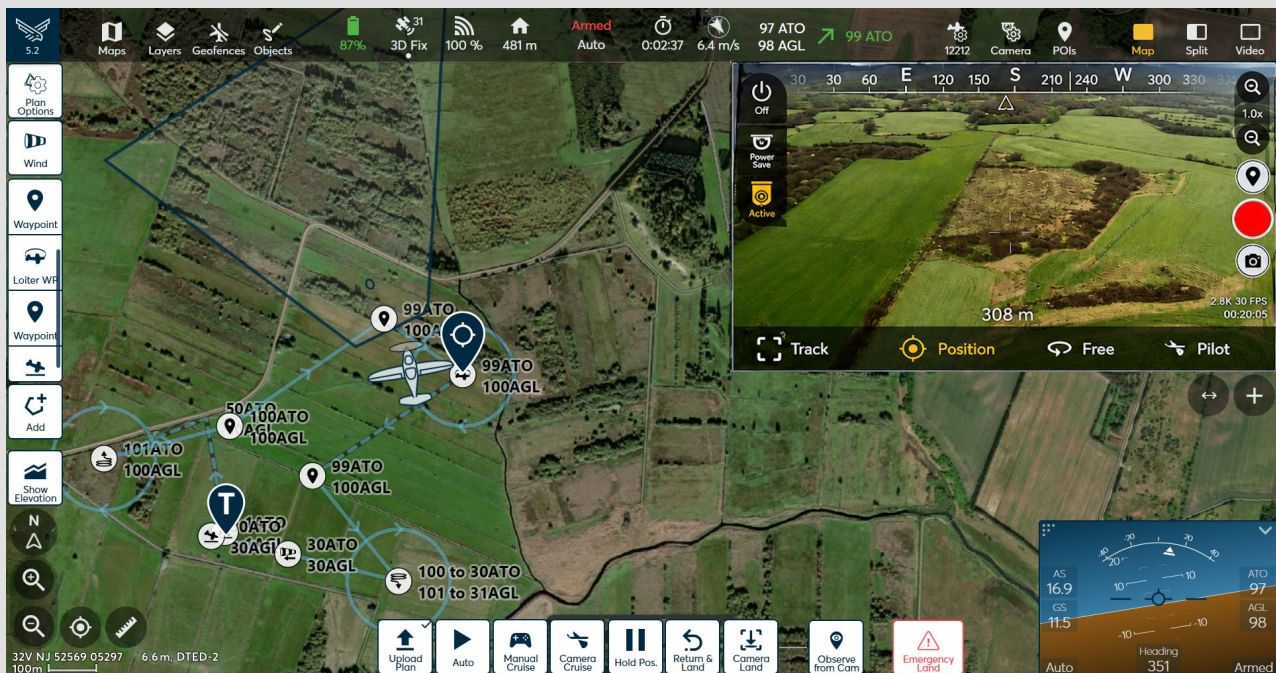
Software that ensures mission success

Modern UAV missions generate sensor data, telemetry, AI outputs and target observations at speed.

The software structures these inputs so mission-relevant information stays visible, usable and ready for action.

Operators can plan, fly, control payloads, monitor live video, receive alerts and prepare mission reports from the same environment.

The purpose is simple: turn complex mission inputs into operational understanding while ensuring mission success



Mission Control at the tactical edge

Plan, execute, adjust and report missions in one workflow.

Sky-Watch Drone Manager gives operators control across mission planning, flight execution, payload operation, live video and post-mission reporting.

Built for tactical laptops, tablets and external hand controllers, it gives operators fast access to mission-critical information in the field. The interface presents live video, terrain data, flight status and tactical alerts in one place. When the mission changes, operators can adjust flight segments and re-plan without breaking the workflow.

This keeps focus on the mission, not the system.

Mission Interoperability

Connect frontline reconnaissance with multi-domain command networks.

Built on an open architecture, Sky-Watch Mission Software supports plug-and-play interoperability with tactical applications, networks and C4I systems.

It supports NATO APP-6, Cursor on Target, and enables sensor-to-shooter workflows, Battle Management System integration, shared situational awareness, tactical data exchange and mission-relevant handoff.

This distributes mission data faster across the tactical network to all echelons.

Mission architecture for edge-intelligence

Process mission data closer to where it is collected.

A distributed edge-compute architecture allows selected mission-critical applications to run across UAV platforms and sensor payloads.

Processing data closer to the tactical edge reduces data-link dependency, limits raw data transmission and lowers latency.

This helps maintain usable mission outputs when connectivity is limited, bandwidth is constrained or signals degrade.



Mission Applications

Mission applications are AI powered capabilities that utilizes sensor data, for enhanced operational effectiveness, executed locally - where they matter.

They cover GNSS-degraded navigation, object-tracking, DRI, RECCE STRIKE, Call for Fire workflows and image processing on payload.

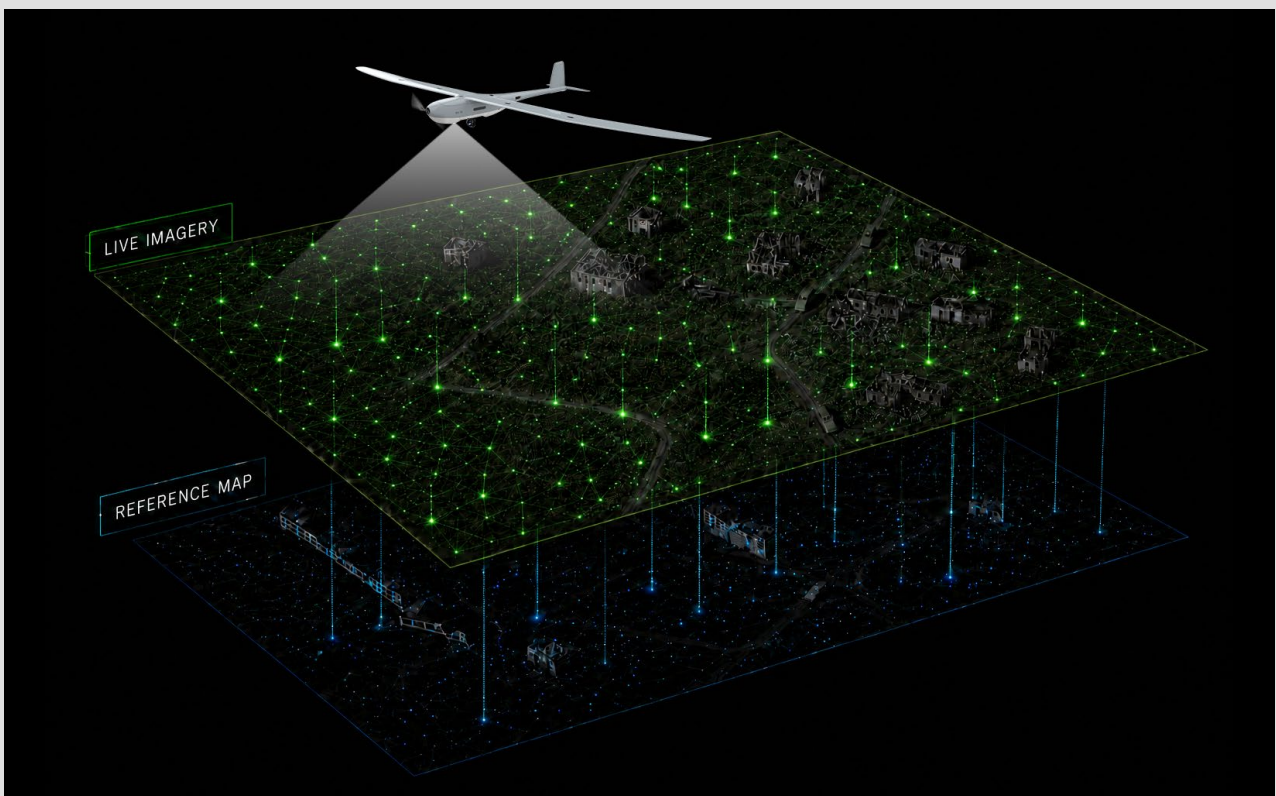
■ Navigate & maintain mission continuity

Visual Navigation System and Positioning

Navigate even when GNSS is denied.

Mission Software uses optical sensors, visual guidance, telemetry and onboard processing to support navigation and positioning when satellite signals become unreliable.

This helps maintain effective navigation and mission continuity in GNSS-degraded environments and means more time-on-target.



■ Detect, assess and maintain awareness

Detect, Recognize, Identify

Mission Software supports AI-assisted DRI workflows for object detection, recognition, and identification.

Detected objects can be categorized by type, matched against a configurable reference dataset and managed through alerts and filtering in Sky-Watch Drone Manager. This structures target information for assessment and operational use.

Object-Tracking

Maintain target awareness from the live video stream.

Operators can select an object in Sky-Watch Drone Manager and instruct the system to keep it in focus and track it.

Payload stabilization, image processing and AI-assisted functions support tracking across EO, IR and EO/IR payload configurations.

Target Detection and Validation

Move faster from observation to assessment

AI-assisted sensing helps detect and validate mission-relevant observations using EO, IR or EO/IR sensor data.

This reduces manual scanning and provides clearer inputs for mission decisions.

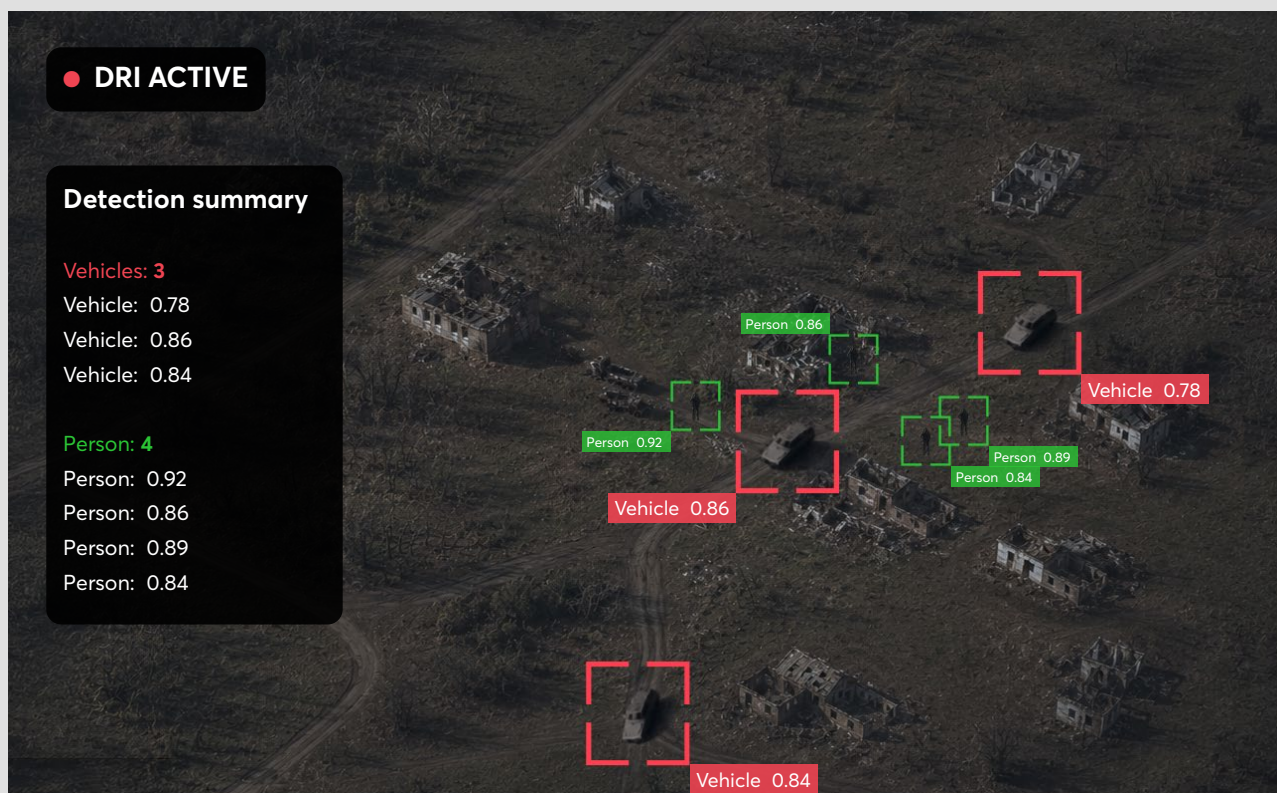
Image Processing on Payload

Improve image quality while reducing bandwidth demand.

Dedicated payload hardware enables image stabilization, enhancement and analysis directly on the payload.

AI-assisted processing supports noise reduction, contrast enhancement and object-aware filtering.

By processing imagery at the edge, the system reduces latency, lowers bandwidth demand and gives faster access to usable mission imagery.



■ Coordinate action

Recce-Strike

From reconnaissance to coordinated action.

Mission Software supports Recce-Strike workflows by combining target detection, validation, prioritization and handoff in one mission process.

Interconnecting Mission Software with Recce-Strike systems, allows Recce strike operators to take control of the UAV to collect target data and verify battle damage assessment.

This shortens the path from reconnaissance to operational coordination while keeping the operator in control.

Fires Application

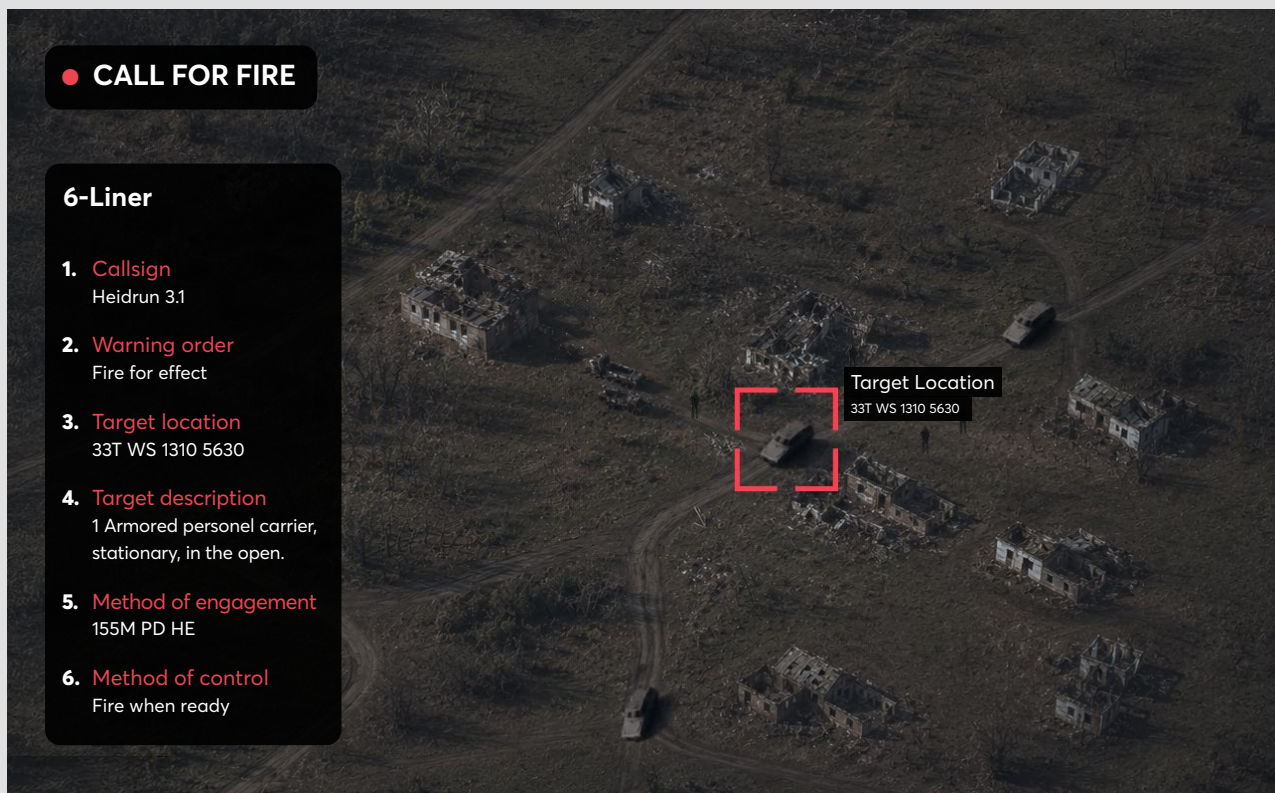
Faster Call for Fire workflows.

The embedded Fires application uses DRI outputs, target data and UAV location data to support Call for Fire workflows using established NATO standards.

It prepares target information for compatible Fire Control Systems, C4I networks and Battle Management Systems as part of the wider Recce Strike workflow.

When adjustment is needed, observed mission data can be used to update the request.

This shortens the path from target observation to fire support coordination.



The workflow layer of Sky-Watch frontline-ready ISTAR

Mission Software is more than a control interface.

Mission Software is the workflow layer that connects RQ platforms, Zentra payloads, onboard edge processing, operators and wider mission systems.

It turns UAV, payload and edge-AI outputs into operational workflows and connects them to the systems where decisions are made.

The data is protected across the UAV platform, Ground Control Station and connected systems.

Capability only matters if it works under pressure

Mission software only matters if it keeps the mission moving when conditions change.

When signals degrade, bandwidth is limited, operators are under pressure and mission tempo increases, Sky-Watch Mission Software keeps intelligence available connected and actionable.



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