



ORION DFM

Supercharge your drones

Orion by High Lander is end-to-end drone fleet management and mission creation software platform that turns drones into specialized tools for any application.

Create and store missions via an intuitive dashboard and dispatch drone fleets of any size to execute them simultaneously, from any range, while monitoring progress on a real-time map.

Hardware-agnostic and packed with utility and safety features, Orion easily integrates with complementary technologies like docking stations, sensors and counter-drone measures, creating a flexible and customizable control center, whatever your needs.



Autonomous operations or full manual control

Max Mode gives you the power to put your drones to work with no human input whatsoever. It can dispatch drones from integrated docks to integrate any mission you need, triggered by sensors or by scheduling, and return them for precision landing and charging. Pro Mode puts you in the pilot's seat with complete real-time control of every drone in your fleet.

Unmatched versatility

Orion's dashboard is a wonder. Use it to design, edit, save and reuse drone missions, and make any changes you need mid-mission too. The dashboard provides all the control elements and data you'll ever need - detailed weather reports for mission planning, drone ID info for airspace awareness, post-flight data for mission debrief and analysis, and more.

Designed for regulatory compliance

Uncrewed traffic management is the future of air traffic control. Orion is integrated as standard with Vega UTM, providing airspace management capabilities and the groundwork for full regulatory compliance. Flight plan approvals, NFZs, NOTAMs and tactical/strategic deconfliction, BVLOS safety mechanisms - all in one hub.

Works with any hardware

The power of Orion should be open to everyone, which is why we designed the software to be hardware agnostic. It works with 85% of off-the-shelf and open-source drones and supporting technologies, and can integrate with new models quickly via SDK.



Toolbox

Utility and safety features built in to the dashboard enable you to get the most out of your drones.

-  Payload Control
-  Cockpit Mode
-  Share Link
-  Object Detection
-  Hot Replacement
-  Collision Avoidance
-  Mapping Tool
-  Weather Widget
-  Precision Landing
-  Control tower
-  Terrain recognition
-  GPS Loss



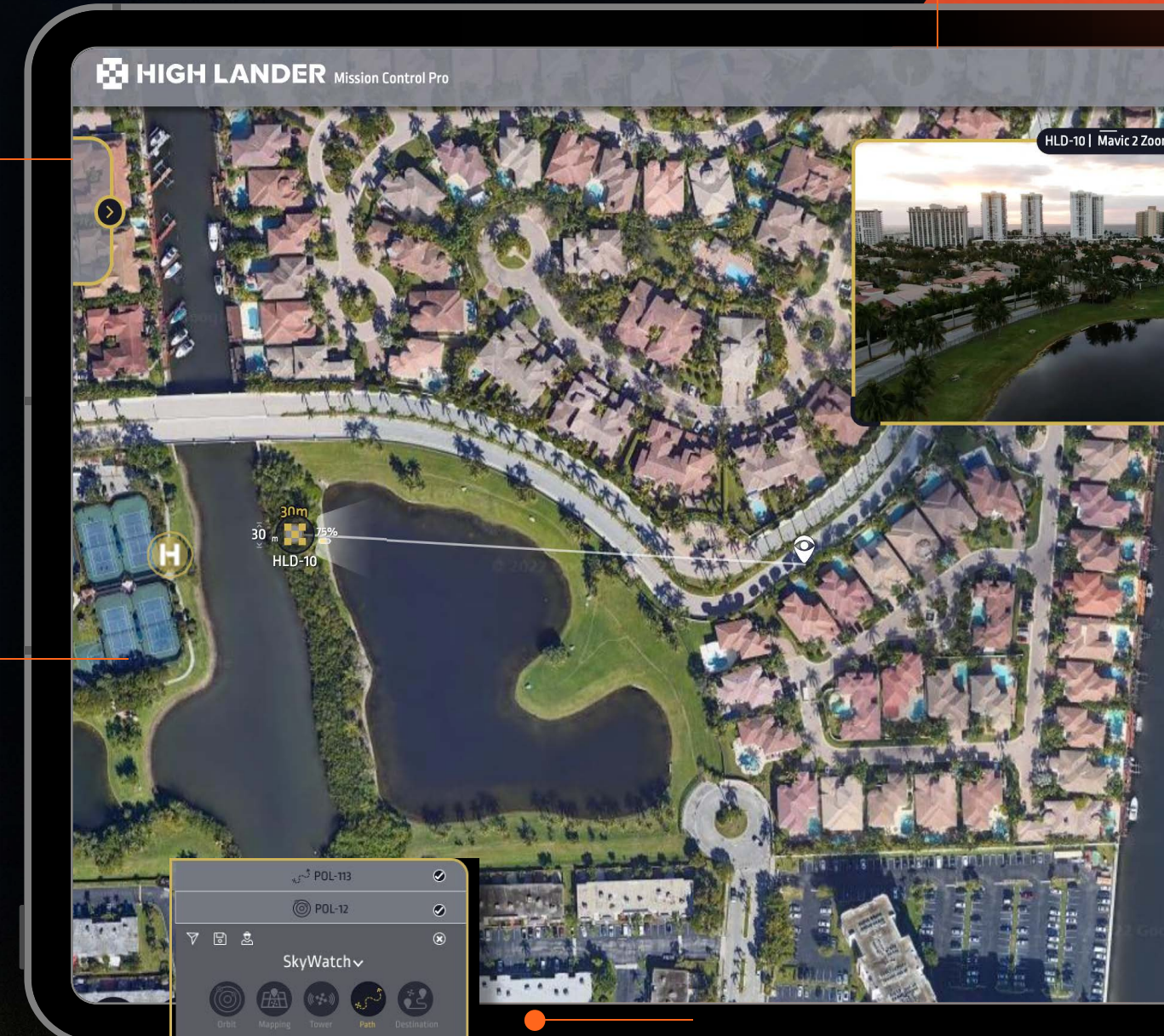
POL-12

GSD	5.68
Photo Est	11,508 Images
Photo Dist	6.54m
Flight Time	00:40:16

60 60 POL-12

RC 35/50 80%

Orbit mission
Mavic
enterprise Dual
In mission



Actions ... Keyboard Keyboard Stick Tracking Tracking

SkyWatch

Longitude 45.674848848494934

Speed 19

Elevation 1 Min Value 2

Gimbal mode Center Fixed

Camera mode Locked Free

Drone: POL-344

POL-35

Application: Public safety

With Orion, drones become the perfect first responders – firefighters, police officers and medical crews worldwide have adopted the platform to save more lives, more effectively, and with less risk to themselves.

BVLOS flights

Emergencies can happen anywhere. Orion enables operators to fly beyond visual line of sight and reach even the most inaccessible locations, while GPS loss protection protects drones and their surroundings even if signal is lost.

Payload control

First responder drones often need more than just cameras. The Orion dashboard enables full control of drone attachments like speakers, gimbals, refrigerated delivery boxes and spray nozzles, maximizing potential interaction with accident scenes before ground team arrival.

Share link

The more first responders know before they arrive on scene, the safer and more effective they will be. Orion enables live sharing of a drone's video feed to any third party, so first responders can gather information while they're on their way.

Cockpit mode

Accurate information saves lives. Orion enables operators to take the cockpit of any of their drones from any range, giving them an eye in the sky exactly where it's needed.



Application: Security

Drones become next-generation security guards with Orion – the platform is used by security teams of all sizes for perimeter control, quick response, deterrence, ground force coordination and airspace awareness.

Automated response

Autonomous dispatch ensures no event is missed due to human error. Orion integrates with autonomous docking stations and sensor arrays, ensuring quick, accurate response for data gathering and deterrence.

Hot replacement

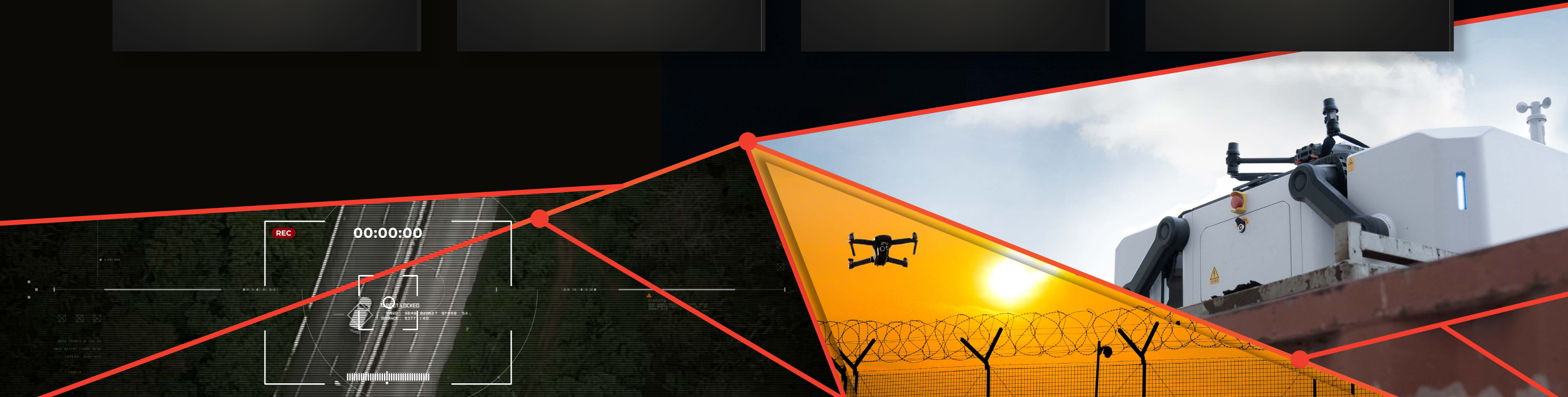
Drone batteries are finite, but Orion is not. The system can autonomously replace in-mission drones as their batteries run low, sending the low-battery drone back for autonomous charging, for uninterrupted surveillance.

Perimeter control

Perimeters need to be guarded, but human eyes are prone to fatigue. Orion enables automated perimeter patrols, providing high-definition, panoramic views directly to your command center.

Object detection

It's long been known that the most effective way to track people and vehicles is from the air. Orion's built-in AI lets drones detect, identify, count and even follow people and vehicles, even if they are moving rapidly.



Application: Deliveries

Orion DFM turns drones into smart couriers that lets you reach more people than ever before, above the traffic and without the fuel costs, delivering medical supplies, mail, food - anything.

Payload control

Deliveries are all about the payloads, and the Orion dashboard enables you to activate and adjust all drone hardware from afar – including delivery boxes, winches and speakers.

Long-range

Drones have limited range, but Orion does not. BVLOS and precision landing capabilities means that deliveries can travel as far as you need them to with automated staging and strategically-placed droneports.

Real-time tracking

Monitor your fleet movements on a real-time map for full oversight of your operations and mid-mission adjustments when needed.

Scalable

Orion has no limit to the number of drones it can control, making it suitable for businesses of all sizes. Fleets of hundreds of drones can be set to pick up and deliver goods autonomously.



For more information,
visit us at: www.highlander.io

 info@highlander.io

 **HIGH LANDER**

