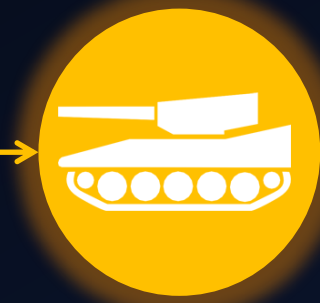




HALO

swarm manager



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DYNAMICS

What is Halo?

SWARM MANAGER

Halo is a mission control (or Battle Field Management) software system, that integrates with multiple robots, and enables complete autonomous functions.

The inbuilt simulator allows the user to run missions in a virtual world, before deploying the robots. Halo has a cutting edge AI system, that learns continuously; the more the system is used the more efficient it becomes, creating strategies for the autonomous fleet.

- Intuitive design based on PC gaming experience.
- Solving complex mission-management, using neural networks and reinforcement Learning.
- Hardware agnostic interface with scalable plug-and-play capability.
- Compatible with DJI and Pixhawk autopilot systems.



How it works



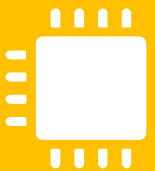
24/7 Cloud Infrastructure

Self optimising learning system comprising of bespoke learning engine and unique architecture.



AI Mission Control

Mission planning, dispatching, and co-ordination



Robots

Hardware agnostic plug-and-play interface

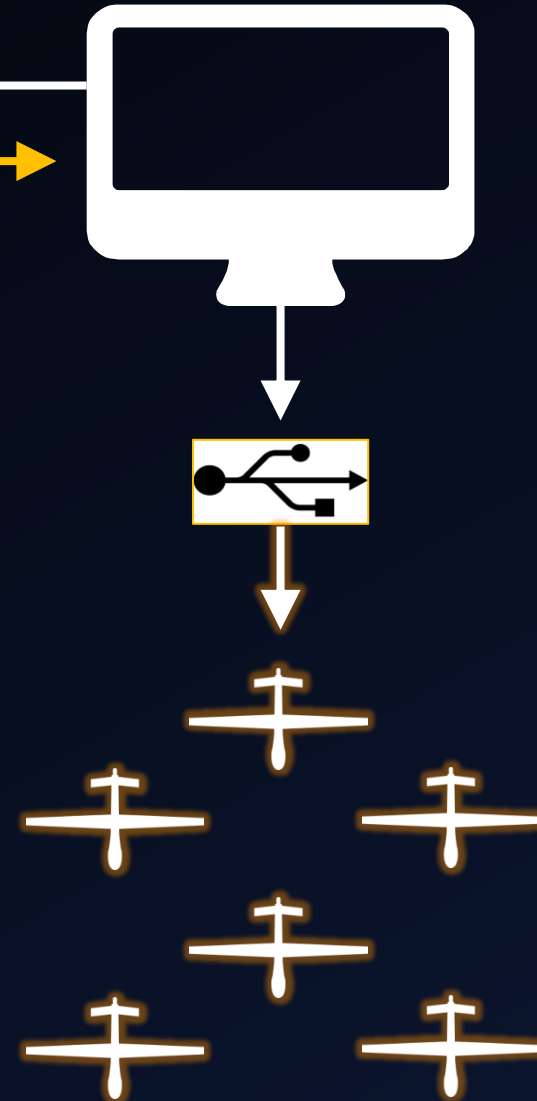


Small to medium missions

Plug and play third-party data analysis solutions



- Third-party data storage or analytics systems are integrated through an API provided by AD
- Halo integrates with any drone or robot through a proprietary developed device driver as long as the drone has an API provided by hardware manufacturer.
- Features available for the user: Path planning; no-fly-zones, collision avoidance, geo-fencing; autonomous mapping and monitoring missions; Sensor data / video feeds from all connected vehicles.
- New features are integrated on request.



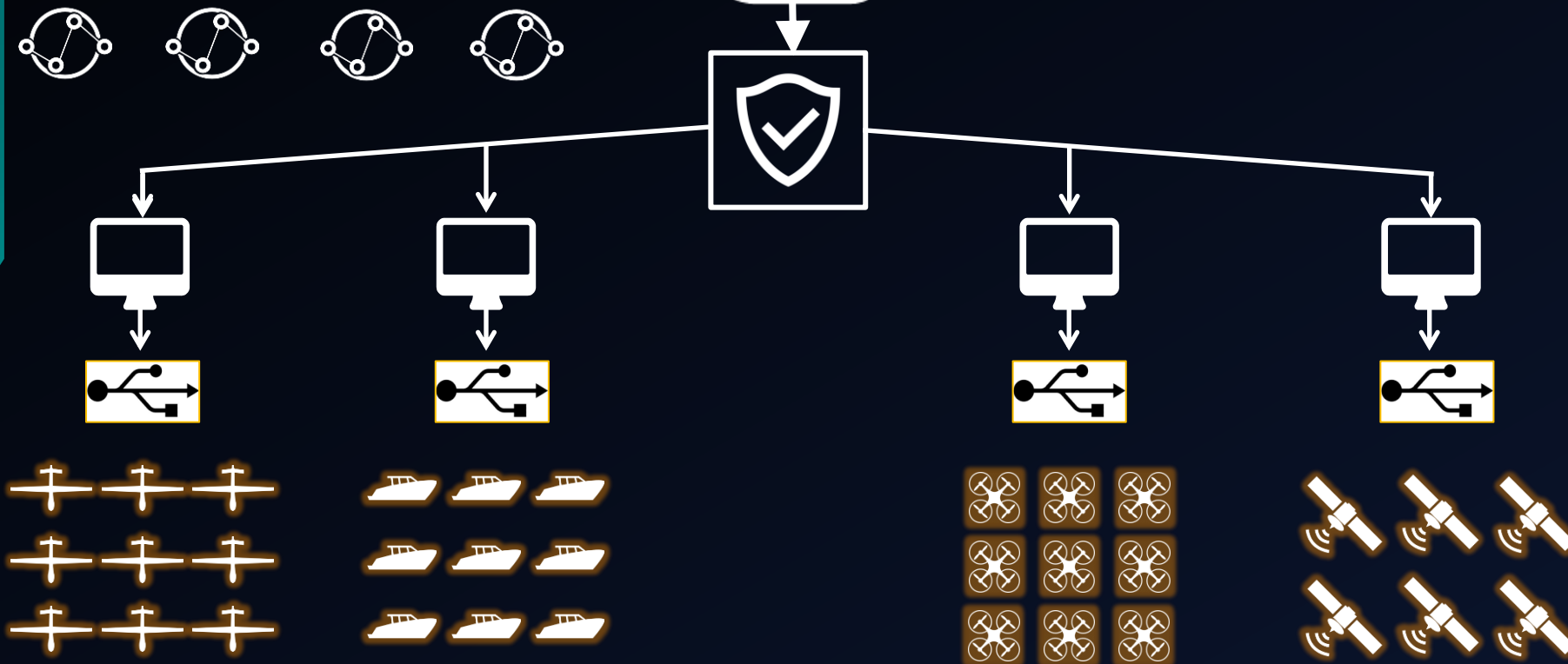
Large global missions

Cloud access for global mission management

Plug and play third-party data analysis solutions

Provides real time information and autonomous control of all connected instances and unmanned vehicle fleets.

Machine learning



Applications



Missing People



Surveillance



“This is a game changer! Maximising operational performance and reaction time”

Logistics



Recon & Surveillance



Combat Support



Swarm manager



Situational Awareness



Mesh comms network



Anti-Piracy



Maritime Operations

Search & Rescue



Anti-Smuggling

Coastal Security



RAPID DEPLOYMENT

Perimeter Security



Swarm manager

Inspection





Man-made Disasters

Environment protection



Natural Disasters

Swarm Manager integrates seamlessly with data analysis tools, such as video analytics processors and photo stitching software





Monitoring



Wildlife conservation

“ We have a duty to prevent critically endangered Species from being wiped out “
HRH Prince William



Agriculture

Online demo

https://www.youtube.com/watch?v=b8Urx1v_z8





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