HM-L Technical Specifications

Hovering Height	Up to 300 meters AGL
Payload Weight	Up to 10 kilograms
Total system weight (AU + base unit)	135 kilograms
Power consumption	5 kilowatts
Wind limitations	30 knots
Operational temperature	-20 to +50°C
Ingress protection	IP65
Dimensions	Box size (AU + BU) 100x100x50 cm AU Size 150x150x40 cm

HoverMast Lite Optional Payloads

The HM-L can carry a variety of payloads for almost any intelligence gathering mission, including EO/IR cameras, RF, radars, lasers, cellular communication, SIGINT, ELINT, COMJAM, hyperspectral sensors, and cyber.

The system can also carry multiple payloads simultaneously, providing a full intelligence snapshot of a designated arena. All the payloads are plug-and-play and are easy to install and replace in the field by the operating team (O-level). Maximum payload weight is 10 kilograms.

Supported Mission	E/O Payloads	RADAR	Cyber	Wave Relay	LIDAR	Cellular Communication
Payload Type	 T-Stamp XR, CCD/Cooled IR with Pointer	 Phased Array Radars	 Cyber Capabilities	 Advanced Mobile AD HOC Networking	 Hi-Res LIDAR	 SONY FCB-EX2700, HFOV: 1.6-60.0°
Additional Payloads	• Stamp Series by Controp • DST OTUS Series by DST • MINIPOP Series by IAI • CM-202 by UAV Vision					FeatherLite

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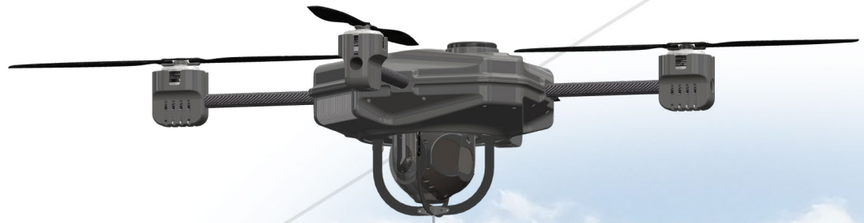
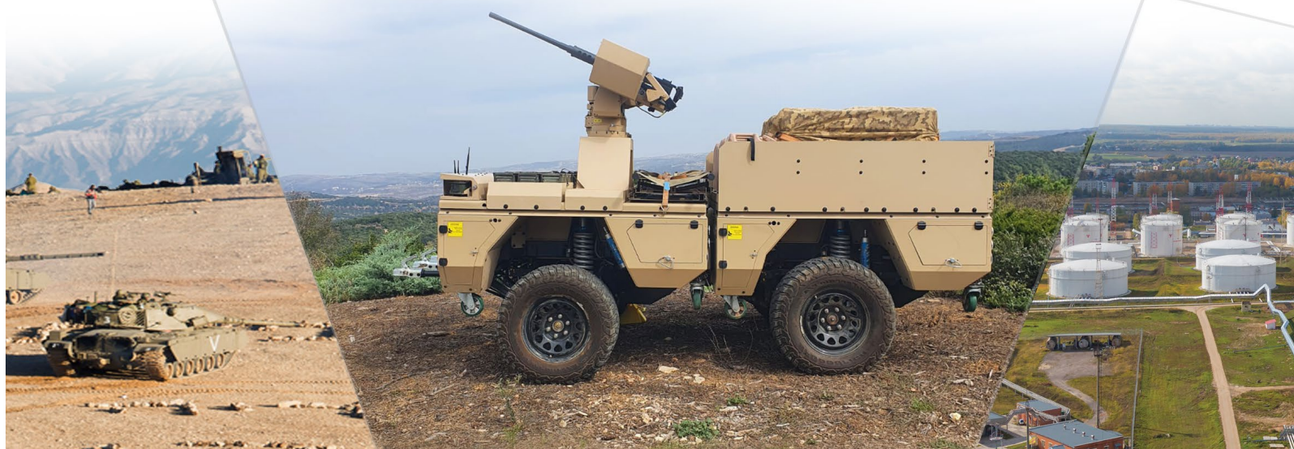
HoverMast
Lite Platform

Mobile, Tethered, On-the-Move
Hovering Platform





Mobile, Tethered, On-the-Move Hovering Platform

The HM-L system marks the next generation in the HoverMast family, designed to meet the market's requirements in terms of form-factor, weight, and power capacity. Breaking the height limitations, with a maximum hovering height of 300m, the HM-L combines high operational flexibility with unlimited mission time, performing 24/7/365.

Outfitted with advanced surveillance payloads, the HM-L can detect people from up to 15 kilometers away, run facial recognition at 700 meters and detect vehicles from 20 kilometers, day or night. The HM-L can also be fitted with a variety of cooled EO/IR, RADAR, cellular, and RF communication, which can be mounted together or interchanged in the field.
Operated from a ground control system, the HM-L can be integrated into third-party's C4I systems with remote operations.

With its modular, flexible design, unlimited mission time, one-button operation, and minimal maintenance standards, the system presents a low Life-Cycle Cost, and offers a highly cost-effective solution for uninterrupted situational awareness.

This system fully complies with MIL-STD-810G/F, IP 6/5, and ISO 9001 standards.

Core Features

- Fully autonomous operation
- On-the-move operation, vehicle/boat mounted configuration
- Maximum payload of 10 kilograms
- Hovers up to 300 meters
- Payload versatility – EO/IR, SIGINT, ELINT, cyber, radar, cellular, RF, COMJAM
- Fully customized to support RCV/SMET programs
- Short turn-around time
- Operates in COMJAM/GPS denied environments, cyber secured
- All-weather operability
- Fiber optic broadband
- Automated safety algorithms
- User friendly (no flight/drone training required)

Multi-Scenario Platform

- Special Forces, Low-Signature Operations
- Force protection (tactical and frontline forces)
- ISTAR missions
- Civil protection and surveillance at mass events
- Naval operations (harbor, offshore, and rig monitoring)
- Traffic monitoring and law enforcement
- Perimeter and border control
- Protecting and securing infrastructure
- Targeting natural disasters and search and rescue missions
- Serving as an ad-hoc cellular tower during natural disasters
- Detecting smuggling in correctional facilities
- Identifying forestry and poaching-related activities

The Advantages of a Tethered Drone

Tethered UAV systems (TUAS) have redefined the HLS arena, providing a constant “eye in the sky”, without the constraints of battery life, payload weight, or endurance. Through a wired datalink, tethered drones connect to a Ground Control Station, establishing a stable and reliable source of communication, with almost unlimited data rates and bandwidth.

Thanks to their unrivalled operational flexibility, accessibility and ease of deployment, tethered drones are now widely used for security and surveillance operations worldwide.

The HM Family

Sky Sapience’s HoverMast Series offers unparalleled aerial solutions for real-time intelligence and communications, with immediate and continuous data transmission to any C&C.
The HoverMast series ground-breaking, patented technology is the only field-proven tethered hovering technology that has been entrusted and deployed in conflict zones world-wide.

About Sky Sapience

Sky Sapience Ltd. has become a leader in tethered hovering technology, providing unlimited surveillance and communications for the defense and enterprise markets. A COMSovereign company, founded in 2010, Sky Sapience designs its products for a wide range of applications and vehicles. Our solutions come in a variety of sizes, payloads, hovering heights, and ranges of mobility, and can be customized for different applications and requirements (e.g., marine scenarios).

Holding 7 international patents, Sky Sapience is at the epicenter of mobile hovering systems, with specialized mission capabilities that have been trusted by some of the largest global organizations – including [insert the name of your best-known client here or even several]. Our systems have served enterprises, HLS, and defense customers since 2014.