

HOVERMAST-100

Mobile, tethered hovering platform

The HoverMast-100 enables real-time 360° tactical aerial surveillance within seconds.

Fully autonomous, it operates during the day, at night and in adverse weather from vehicles on land or at sea. The HM-100 relays and receives target coordinates, integrating easily with other ground forces; facilitating quick closure of the sensor-to-shooter cycle. The HoverMast has been selected by leading customers around the world.

Key Features

Highly stabilized, aerodynamic rotor technology

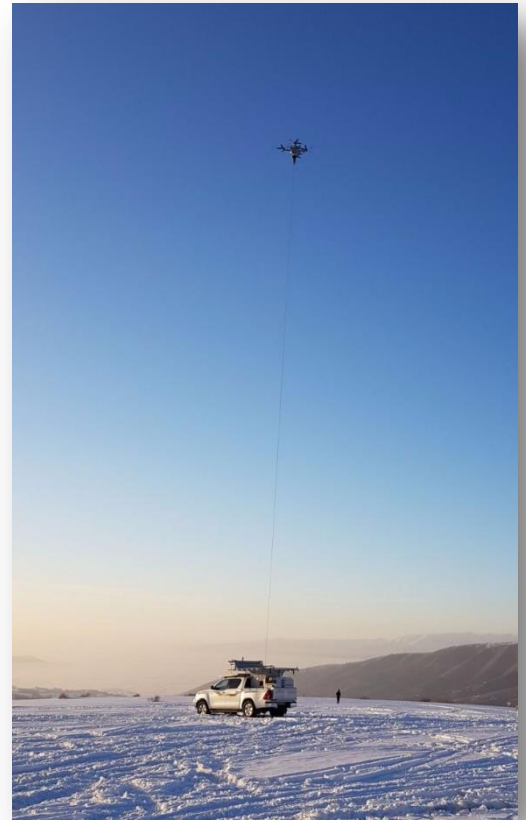
Tethered power cable and bi-directional data link

Compatible with any standard communications protocol

Ability to host most payloads up to 9 kg to 50m, 7 kg to 100m

Dust and rain resistant (compatible with IP 6/5)

Comprised of advanced composite materials



HoverMast-100 applications

Border control and protection
Real time recon and intelligence
Critical infrastructure protection
Emergency response operations
Traffic and crowd control
VIP protection
Ad hoc cellular/RF network

Platforms

Pick-up trucks
Unmanned ground/surface vehicles
Boats
ATVs with flatbeds
Communication vehicles



HoverMast-100 specifications

Hovering Height	Up to 100 m
Payload Weight	Up to 9 kg
Deployment and re-deployment	Seconds
Recovery Mode	Automatic
Operation Time	Unlimited
Operators Required	One payload operator
Operational Mode	Autonomous
Wind Limitations	25 knots plus gusts
System Weight	Base unit: 250 kg, Generator: 150-500 kg, Aerial unit: 21 kg
System Dimensions	Base: 1.5*1.5*1 m
Aerial Unit Diameter	150 cm approx.
Power Source	Electric – 15-18 kV (silenced generator supplied)






Payloads capabilities

The HoverMast has the ability to incorporate most payloads weighing up to 9 kg, including CCD/IR cameras, radars, lasers, cellular antennas and hyper spectral sensors. Sky Sapience can integrate most payloads that are within the weight and volume capacity of the Aerial Unit.

Electrical Optical payloads

		UAV VISION CM202	UAV VISION CM123	DST OTUS-170	DST OTUS-205	DST OTUS-250
						
Sensors	Day	Color CCD	CCD Global Shutter	SONY FCB-EX1020	SONY FCB-EX1020	SONY FCB-EX2700
	IR	Cooled IR	Cooled IR	Uncooled 320 IR	Uncooled 640 IR	Cooled FLIR μ Core3-5
	Laser	Range Finder	Range Finder	Range Finder	Range Finder	Range Finder
Gimbals		3	3	2	2	4
Weight (Kg)		3.5	1	2.4	2.7	9

Additional payloads

NANOSAR	COMMUNICATION	AMMS
		
Synthetic Aperture Radar	Advanced Mobile Ad Hoc Network	Acoustic Multi-Mission Sensor

Technical Key Features

Autonomous operation	Including take-off, hovering on-the-move tracking the vehicle and landing
Fully robotic array	No skilled operator required, up and down operation-no joystick
Safety Automatic System	Real time monitoring of all system components, automatically correct, warn or take action when needed
Key sub-systems redundancy	Positioning and auto-pilot operate without GPS or other communication
Parachute	Human and System safe landing in case of emergency
Long MTBF	Designed for K hours of operation
Temperature	-20° - +55° C

