



Delivering The Leading
Tethered Hovering Platform



OUR SOLUTION

HoverMast



[Video](#)



PRODUCTS

The HoverMast Family

Defense/HLS &
Civil

Operational



HM-50



HM-100



CyberMast



HM-50N



HM-100N

Upon Request



HM-150



SHADO

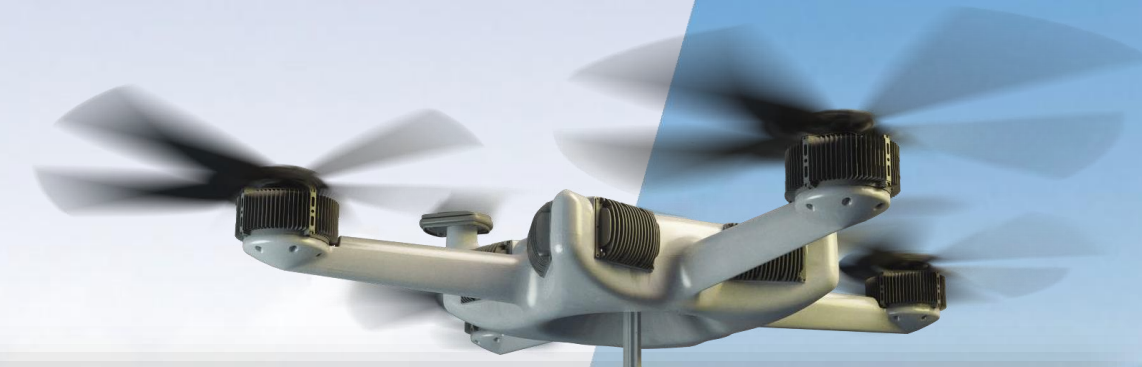


HoverMast Series Specs



	HM-50	HM-100	HM-150
Platform Type	Mobile / Stationary / Marine	Mobile / Stationary / Marine	Mobile / Stationary
Hovering Height (m)	50m	100 m	150 m
Payload (kg)	11kg	8kg	4kg
Wind endurance (kts)	30 kts	30 kts	30 kts
Deployment time	15 Seconds	15 Seconds	15 Seconds
Redeployment time	15 Seconds	15 Seconds	15 Seconds
Operational time	Unlimited	Unlimited	Unlimited
Mobility	+	+	+
Remote operation	+	+	+
Parachute	+	+	+

HoverMast Payloads



E/O Payloads

		Controp M-STAMP	Controp T-STAMP-XR	DST OTUS-135	DST OTUS-170	DST OTUS-205	DST OTUS-250	MINIPOP	CM-202
Sensors	Day	Color CCD	Color CCD	SONY FCB-EX1020	SONY FCB-EX1020	SONY FCB-EX1020	SONY FCB-EX2700, HFOV: 1.6-60.0°	CCD with Near IR (NIR) capability	CCD Global Shutter 1280 x 720 31.4° Wide to 1.1°
	IR	Uncooled IR	Cooled 3-5 IR	Uncooled IR	Uncooled 320 IR	Uncooled 640 IR	Cooled FLIR µCore3-5	Cooled, FPA, 3-5 microns continuous zoom 2°- 22°	Cooled 25-325 mm MWIR 640x512 13x Optical
	Laser	Pointer	Pointer	Range Finder	Range Finder	Range Finder	Range Finder	Range Finder	Range Finder
Gimbals		3	3	2	2	2	4	3	3
Weight (Kg)		2.5	3.6	2.4	2.4	2.7	9	8	3.5



Other Payloads

RADAR	Cyber	Wave Relay	LIDAR	FeatherLite
				
Phased Array Radar	Cyber Capabilities	Advanced Mobile AD HOC Networking	Hi-Res LIDAR	Cellular Communication

PRODUCTS

Multi Payload Configuration

**Cooled EO/IR and Cellular
Communication Payload**



**Combined EO/IR and
Cyber Payload**



How it works

System Interface

Payload operation



The operator can focus on the payload's inputs

The system constantly monitors all systems and alerts the operator only when needed



Use Cases



Border Guards



Traffic Control



Coast Guards



Communication



Instant LTE



Forests Keeping



Fire Fighters



Sports Events



Energy Infrastructure



Pollution Monitoring



Naval Uses

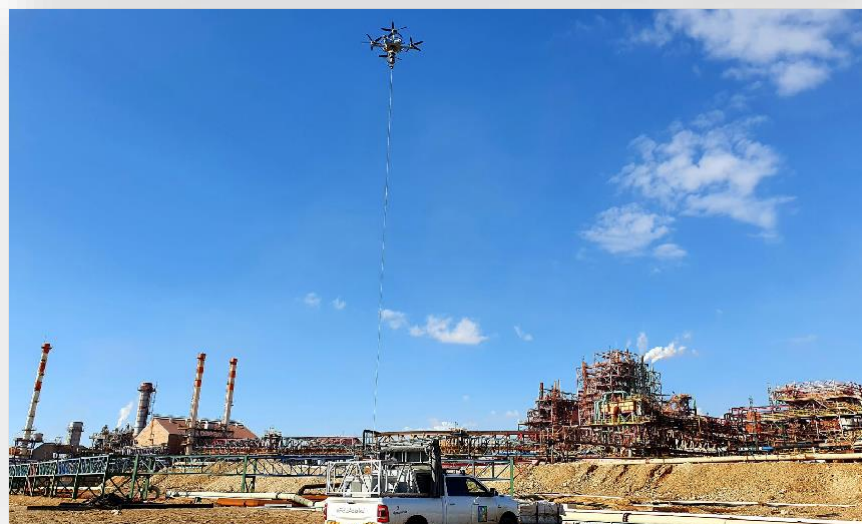
PRODUCTS

Selected SKS Customers



OUR SOLUTION

Peremiter Control



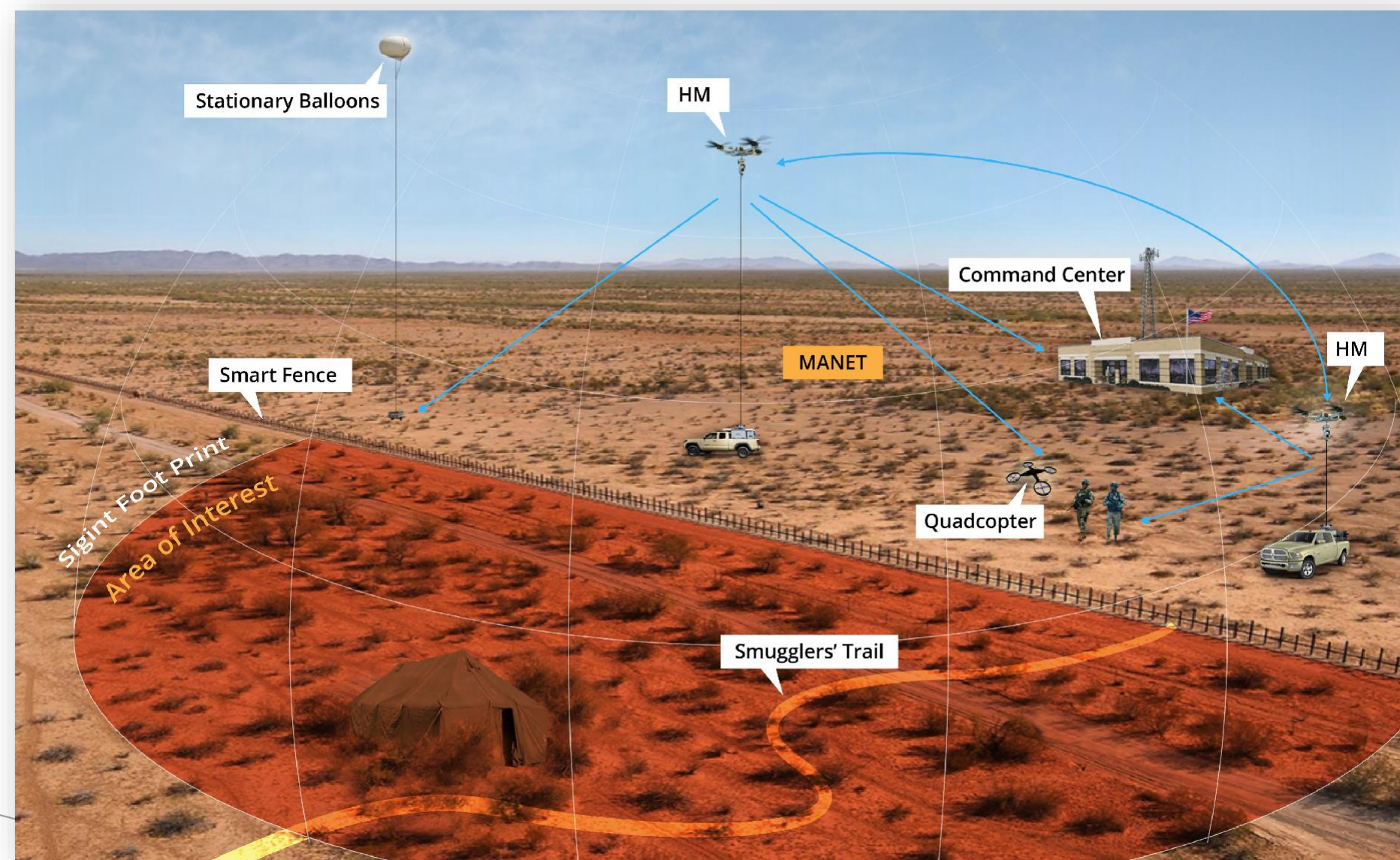
Sea Operations



Remote Operations



Full C4I Connectivity



HoverMast Competitive Advantage



Combat Proven

Fully operational and most common Tethered platform in the world

Heavy Payload capability

HM-50 - Up to 11kg, HM-100 – Up to 8kg, HM-150 – Up to 4Kg

Payload combinations and versatility

E/O, RADAR, Cyber, Communication, COMINT, LIDAR, Jammers

All weather operability

IP-65: rain, dust and snow
30K winds with gusts up to 35k, tested up to 40k

Naval System for Sea operation

Special materials, unique algorithm, the only system in the world

GPS Immunity

- Operation under GPS jamming
- Soon – operation in a GPS denied environment

On the move operation

Smart algorithms for full mobility while operation (Tested up to 70 Km/h drive)

Fully autonomous operation

Smart algorithm for fully autonomous operation (the only system) + an option for remote operation

Fiber Optic communication via the cable

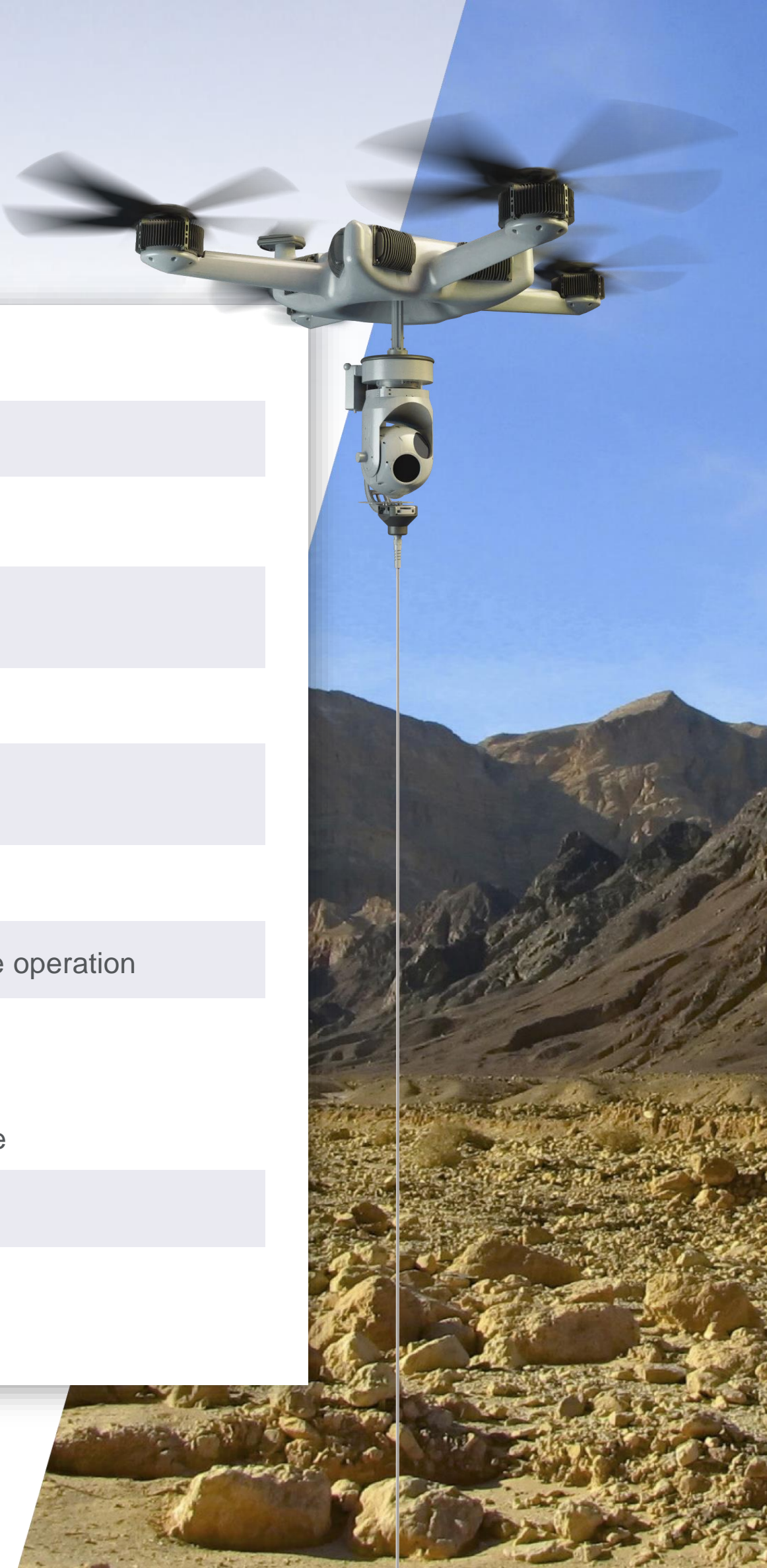
- 100% Cyber Immunity, 100% RFI/EMC Sustainability
- Completely passive (Zero RF emission)
- Unlimited bandwidth
- No latency, allows sophisticated data processing in the vehicle instead of on the drone

Reaction time is seconds

Deployment and redeployment

Safety

- ASA – Automated Safety Algorithm (the only system)
- Parachute (the only system)



SHADO

Superior Surveillance in a Lightweight Camera



7 Kg

Weight

15 Km

People
Detection

> 500m

Face
recognition

x 4096
3000

Sensor
Resolution

☀ Day

🌙 Twilight

Features

Ultra-long range

Lightweight

Compact structure

Advanced image processing

Airborne or ground positions

Belly, nose or pole mounting

Superb low light capabilities

Applications

Homeland security

Border patrol

Perimeter protection

Mass event monitoring and control

Law enforcement

Search and rescue

Force protection

Special operations

Anti-terrorist/smuggling surveillance

Thank You

www.skysapience.com

