

Hawk Owl™ Aerostat

VIKOMA

Protecting our environment over 50 years



Quality
Reliability
Innovation

An aerial surveillance system with near to 360° field of view, ideal for oil spill management

- A multi user, multi camera, cost effective constant surveillance system
- Customisable
- Owls uses include; Asset integrity; security; salvage; search and rescue; oil spill response; disaster relief; fire fighting; scientific; agriculture; media and festivals.



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For more information on Vikoma recovery skimmers please visit www.vikoma.com

The Hawk Owl™ Overhead Wireless Lookout System is a 15m³ aerostat observation system. It is the first in a range of persistent aerial surveillance solutions that can be provided with optional additional sensor capabilities including:-

- Infra-Red
- Particulate monitoring
- Gas monitoring

Owls are renowned for their all round vision , and much like its feathered namesake, the Hawk Owl™’s unique revolutionary multi-camera design provides a near 360° field-of-view. An industry first, images can be viewed simultaneously on multiple base-stations, with independent control of camera & zoom functions. Originally designed to support containment & recovery operations for oil spill response and reduce vessel operating costs, this mobile, self-contained system can be used for a wide variety of other surveillance applications.

Payload & Transmission

Payloads can be modified to meet operational requirements, up to six sensor packages can be installed as desired including Infra Red (IR); gas-monitoring and particulate-monitors. The aerostat is equipped with GPS, altitude & heading sensors to monitor flight characteristics & data-stamp captured information.

Data from each sensor is transmitted to the ground-station via a wireless hub & transmitter located on the fin of the aerostat. The wireless transmission range of the system is up-to 800m (2600ft). Payloads are powered for up to 12 hours by a single rechargeable high-capacity LiON battery.

Launch Platform

Launching options for the Hawk Owl™ aerostat can be customized to meet user requirements depending upon the nature of the application. Launch platform options can include:-

- Marine mounted
- Trailer mounted
- Vehicle mounted (flat-bed, box or pick-up)
- Dedicated static launch platform
- Containerized installations



Base Station

The base station is packaged in a rugged Peli-Case™ and can be powered via battery or 240v mains supply.

It is equipped with a 12 inch touch sensitive screen to view images. All data is geo-referenced and date/time stamped. Camera pan, tilt & (digital) zoom are controlled by touch screen input.

Captured data can be viewed from the internal hard-drive, or exported externally via RGB, Video-out, HDMI, (2x) USB or ethernet connectivity.

Images from the Hawk Owl™ are also multi-casted permitting multiple groundstations to receive an independent view & capture any images or data they choose.



Hawk Owl™

The Hawk Owl™ is designed and built in the UK, it comprises of a helium-filled envelope stabilised by a kite structure. The 15 cubic metre envelope provides 6.5 kg of lift and is protected by a Rip-Stop nylon outer to prevent damage.

The Hawk Owl™ is tethered using Dyneema cord to a groundstation winch from which it can be safely operated in wind speeds of up to 50 kts.

A safety cut-down device and gas-pressure burst discs are included to deflate the envelope in the event of an emergency or break away.



Battery Endurance	12 hours
Recommended operating altitude	60-300m (200-1000ft)
Data Transmission	Encrypted Wireless
Max sustained wind speed	50 Knots
Aerostat Envelope volume	15m ³
Optical camera specification	5 Megapixel/ 1080p
TFT screen diagonal size	300mm
Deployment time/ operators	30-45 minutes 2 pax
Payload	6.5kg
Safety cut-down device	Yes (Customisable)

Additional features: +Multiple independent ground stations (POA); +Client-specific branding (POA); + Customisable payload/sensors (POA)