SkySentry Heavy-Lift Expeditionary Aerostat (HEA)

The well-proven HEA is our largest aerostat and sets the framework for larger ones, per customer needs. Predecessors of this system are in 35 countries.

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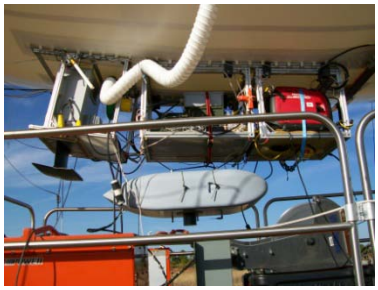
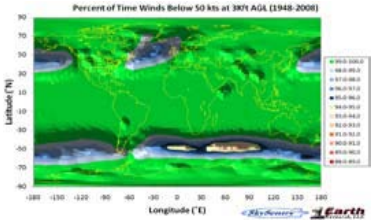


Global Feasibility of Aerostat At 3000 Feet



The HEA:

- 28 meters long, 9.3 meters diameter, inflated with 900 cubic meters of helium
- Design life of 5 years.
- Flies in less than 12 hours after arrival on site - 2-person crew operations crew
- Demonstrated operations in temperatures from -10 to + 30^0 C
- Fully functional at 60 knots in flight, withstands 85 knots moored
- Stays on station for up to 2 weeks in flight between servicing– day and night

The Mooring Station:

- 2.8 meters wide, 12 meters long, weighs 16,000 pounds
- 10 meter mast is elevated for flight operations; folds to 3 meters for transport
- C-130 or C-17 Aircraft transportable
- Pulled by a one ton truck or HMWWV, no Commercial Driver required
- 360 degree rotation allows aerostat to aerodynamically vane into wind
- Contains main winch, mooring tie downs, versatile electrical sources

Payload Bay, Power System

- Easy access payload bay, can be sealed against weather and dust
  - Moves fore or aft for flight trim and to clear lines of obstructions
  - Expands or contracts per customer needs
  - Body has quick-mount brackets for quick payload exchange
  - Standard Dimensions: 2.5 meters long x 0.75 meters high x 0.7 meters wide
- Power system provides highly conditioned, steady 120VAC, single-phase, up to 3 KW electrical supply to payload bay

Tether

- Extends one KM above ground with over 8,000 KG breaking strength and 1,100 KG working load
- Grounded for lightning and shock safety.
- Six fiber optic cables for data transmission from payload bay.

Why contact SkySentry about HEA?

- System is readily available for short or long term lease
- Competitively priced
- Lifts 150 KG to 1 KM feet above ground; low cost persistence, surveillance and communications
- Flies customer payload or team-provided singular or integrated payloads to include radar, camera and cellular communications networks
- SkySentry can characterize expected behavior of aerostat and payloads with modeling and simulation of winds, payload coverage and terrain
- SkySentry Support Services include:
  - Rapid deployment to emergency or support locations
  - Professional flight crews, training, risk management and all agency coordination, such as FAA and FCC
  - Full logistics support package

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