

Surveillance with Ease

**QUICK DEPLOYMENT
OBSERVATION
PLATFORM**

A SkyDoc™ and Kapkom Venture

Made in Germany and the USA



Aerostat Systems

Why the need for an aerostat system?

- ◉ Worldwide, the popularity of aerostat systems is growing quickly. Aerostat systems provide a quick and cost effective way to launch, monitor, and recover a payload designed for aerial surveillance, communication, and atmospheric monitoring.
- ◉ The patented SkyDoc™ Aerostat System is a unique product line designed to provide it's handlers with superior durability in all types of weather conditions so that your payload can be up in the air and operational whenever you need it. Because of this, we've had customers from many different specialties and countries purchase systems to be used for their specialized needs.
- ◉ SkyDoc™ Aerostat Systems are configured to individual needs and our helium aerostat platform was specifically designed to meet criterion requested by many operators of aerial specialized equipment and built with state of the art components to offer optimum performance and reliability.

Current Deployment



Stadium Surveillance



Stadium Surveillance



Stadium Surveillance



Mobile Trailer System



- Vehicle needed
- Separate CMD Office
- Large system
- 6 man team
- Logistical backup
- 8 Bottle Helium setup
- Storage when not in use
- Running costs higher

Aerostat and Camera



- ◉ SkyDoc™ Aerostat
.9mm polyurethane
- ◉ UAV Vision CM160
EO/IR Gimble
- ◉ Capable of recognition
up to 9km
- ◉ Currently being used for
Border Security

Changing Requirements

Why use larger and more expensive equipment than needed?

- ⦿ Taylor make the system to suit your situation.
- ⦿ Manpower requirements are minimal.
- ⦿ Reduce operating costs.
- ⦿ Custom built all in one system.
- ⦿ Modular, only purchase what you need.

Vehicle Choice

- ⦿ Terrain
- ⦿ Speed
- ⦿ Mobility
- ⦿ Manning
- ⦿ Supply
- ⦿ Cost effectiveness
- ⦿ No need to buy new Vehicle

Example: Training Vehicle



We have chosen a 1988 Ex Fire truck due to its robust simple construction and adaptability.

The system is modular and will fit into any vehicle with the specific modifications.

- Double cabin to carry four personnel while rear doubles up as command center. The front seats swivel to face the monitors.
- Space in the pick up side cabinets to fit your chosen modules.
- Roof capable for 2 people standing to mount camera system.

Training Vehicle



Specifically built to adapt to any specific needs of the client.



We can adapt for a vehicle, trailer, pallet, container or permanent installation.

Helium Frame



This particular design carries four full size helium bottles to fill the #18 Aerostat.

Precision Made Parts



Aerostat Examples



Launch Examples



Other Examples



Shipboard Examples



Basic System

- ⦿ Lower fitting frame (to chosen vehicle)
- ⦿ Helium frame with winch tray
- ⦿ Winch system with tether
- ⦿ Camera system from \$15,000 to \$280,000
- ⦿ Mast system up to 35' (15.8m)
- ⦿ Drone for quick recon
- ⦿ Command Center with monitors
- ⦿ Cabin conversion for swivel seats

Concept

- ⦿ Compact mobile systems in one vehicle
- ⦿ All team and equipment needed
- ⦿ Fast deployment to a threat area
- ⦿ Ability (depending on module) to quickly confirm deployment location by means of mast or drone
- ⦿ With 4 bottle system running costs are less than \$1000 for up to seven days

Cost

Although everyone's needs vary drastically, the most important factor for any organization is...

What is your budget?

Cost

- ◉ Which Vehicle? New or Used?
- ◉ Adapter frame
- ◉ Helium frame
- ◉ Winch with tether (fiber optic or Dynema)
- ◉ Mast
- ◉ Drone
- ◉ Command Center
- ◉ Roof Rack
- ◉ Conversion work (all done in house)

What does this mean for you?

- ⦿ Limited Budget only means you are restricted to the setup you purchase.
- ⦿ The beauty of our modular system is you can add to the existing system as requirements evolve.
- ⦿ We can reconfigure your vehicle to accommodate specific requirements.

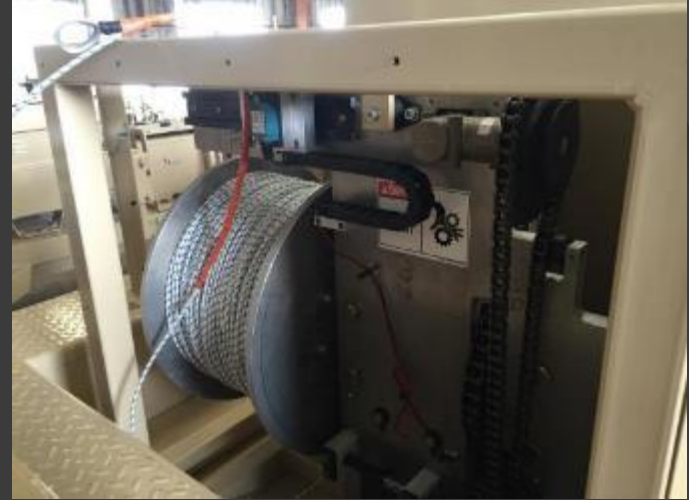
Basic Design

- Frame work, winch with Dynema based line (no fiber optics), small helium balloon, camera system options available
- Professional EO/IR gimble
- Daylight, infra red, and laser range finder

Vertical Winch Specifications

- Outside Dimensions: 32.18" Width – 31.09" Height – 22.18" Depth – 350lbs net weight
- Winch dimensions: 8.5" Drum diameter – 9" Drum width – 18" Drum flanges
- Drum tether capacity: 1529' of 0.28" tether with .5" Freeboard
- Electrical slip ring
- Ethernet connection
- 15' (4.5m) Winch control pendant
- Control panel to include: DC meter, main DC ON/OFF switch
- Shore power breaker to connect external 120VAC to the DLS-30/IQ4 battery charger
- Main DC ON/OFF switch turns the winch on and off
- Winch control by externally connected pendant
- Battery charger DLS-30/IQ4 will connect directly to the battery 30-amp battery charger
- 2 SLA-1175 Marine deep cycle 75AH to provide DC power
- 1 each standard 120VAC 15amp shore power input receptacle
- Quick disconnect panels for ease of maintenance
- Manual (quick throw) emergency stop handle

Heavy Duty Vertical Winch



Use of our System

- ⦿ Currently for use during any crowd gathering, whether it's a political occasion, live band, or any event that needs to be monitored.
- ⦿ Up to 4 people can use the system and monitor 24 hours a day.
- ⦿ The system can be moved while deployed saving on resources.
- ⦿ Link to the event organizers for speedy transfer of vital information.

SkyDoc™ - Kapkom System

- ⦿ One camera can cover up to 9km radius.
- ⦿ It can be linked to other systems if required over a greater distance.
- ⦿ Snap setup usage can be deployed within minutes in any area as well as re-deployed at a moments notice making this system perfect for long distance border observation.

System Training

- Training for up to 12 students over a 3 day course at our facilities.
- Mobile schooling to a preferred location.
- 24 hour support help desk (service package).
- On-site support and training is available.

Next Step

- ⦿ Contact us to set up a meeting to find out which module best suits your needs.
- ⦿ Training is available in the USA and Europe with a growing network World Wide.

www.skydocballoon.com

www.kapkom.de