

## MONIKITE – HELIUM TETHERED AEROSTAT

### Product description:

Helium tethered aerostat *MoniKite-105* allows to position a camera ca. 100 m above the ground in order to monitor the area underneath. *MoniKite-105* is equipped with electronic hardware enabling signal transmission from the camera on the aerostat to a screen on the ground. Therefore, it can be a very attractive solution for monitoring of some targeted area for users like security companies, civil service, event organizers, local authorities, etc.

*MoniKite-105* is equipped with a camera and accompanying electronic hardware, which enables the online streaming of the recorded video signal to a receiver on the ground. Standard *MoniKite-105* is equipped with the GoPro9 camera for performing monitoring during daylight. The use of *MoniKite-105* can be customized on request depending on user's needs. Its functional features can be also expanded to provide e.g. night-time monitoring, tracing of moving objects, monitoring of air quality, etc.



*MoniKite-105* aerostat a) ca. 50 m above the ground at operation altitude, b) on the ground

### Basic parameters of use:

Max. payload – up to 8 kg  
Max. altitude – up to 300 m  
Optimal altitude – ca. 100 m  
Allowable wind speed – 100 km/h  
Operation during rain / snowfall – yes

### **Potential use in standard version (image transfer):**

- *Security* sector – permanent monitoring of objects on the ground e.g. parking lots, warehouses, storage areas, industrial buildings, etc.
- Owners of infrastructure e.g. large companies, local authorities – monitoring of hotspot places (e.g. transport junctions) in continuous or ad-hoc mode
- Civil service e.g. fire brigade
- Large event organizers – monitoring of sport events, outdoor festivals, concerts, with the possibility to provide internet access

### **Examples of other use (dedicated applications):**

- Monitoring of forest fires, migration of animals
- Monitoring of ship traffic e.g. in harbors, water gates, other places of intense ship traffic
- Monitoring during night-time with the possibility to direct a spotlight towards an object
- Monitoring of air quality using special sensors to detect PM10 and PM2,5 concentration

### **Advantages:**

- Possibility of permanent operation (competitive with drones, which can fly during a very limited time slot only)
- Possibility of installation in a given location and then easy relocation depending upon needs
- No need to build ground infrastructure (masts, etc.) – a portable fixing mast required only
- Minimum of formal requirements – *MoniKite-105* can operate in locations where the construction of ground infrastructure is excluded or troublesome
- Possibility of rescaling the aerostat in order to provide higher altitude or heavier payload

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