



BMR SOLUTION

AEROSTAT OBSERVATION SYSTEM

BHE BMR is a multi-purpose mobile tactical aerostat observation system, designed and developed for defence and civilian observation, surveillance and other aerial support missions

- Ø Creation of new early warning observation capabilities
- Ø Contribution to defence and control of the IRB of Hungary (Schengen)
- Ø Augment present sensors capabilities of border police forces
- Ø Create new observation capabilities in the aerial dimension both day and night (and by implicit way, forward looking ability)
- Ø Fill the gaps of existing mobile and static thermal and normal cameras
- Ø Provide random aerial observation means in the 8 km deep border zone
- Ø Monitoring of migration registration centres and assembly areas

Balloon/Aerostat Subsystem

28 m³ balloon

- Ø 3 valves below
- Ø 1 RC large safety valve on top
- Ø Diameter 4 m
- Ø Payload: >5 kg

34 m³ balloon

- Ø 3 valves below
- Ø 1 RC large safety valve on top
- Ø Solar cells 2 x R21 on top and charger controller
- Ø Charger controller electronics between the charger and solar cells
- Ø Diameter: 4,3 m
- Ø Payload: >6 kg



Textile: thermoplastic polyurethane (TPU) film

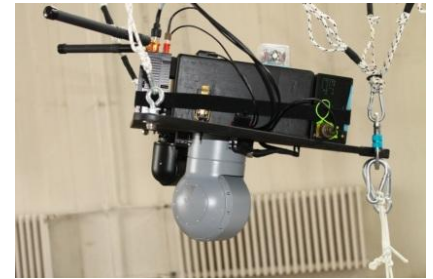


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Sensor and Communication Subsystem

- Ø Sensors on board: depending of specifications of user and tasks
- Ø Small multi-channel MIMO on board
- Ø Radio link bandwidth balloon-trailer over 10 MBps.
- Ø HD video stream ~2 MBps (more camera stream transmission possible)
- Ø With lightweight omni antenna (datalink up to 3 – 5 km distance)
- Ø Observation: vehicle/groups 4-6 km (Night 3-4 km), person 2-3 km (Night 1.5-2 km)
- Ø 25-40 km border section: 3-4 BMR system + support vehicle with high capacity helium compressor (from balloon to canisters)



For more information contact us:

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