NADATS

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MULTI-PAYLOAD AEROSTAT

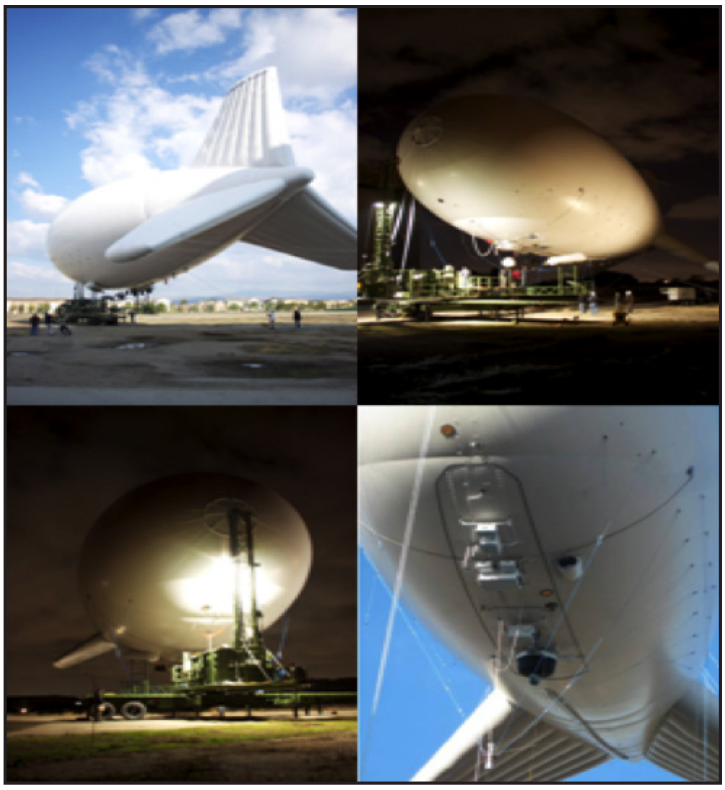
AEROSTAT SPECIFICTIONS	
Length	39 M
Operational Altitude	1,500 M
Mission Duration	20+ DAYS
Payload at 1,500 M	300 KG
Operational Wind at 1,500 M	50 KNOTS
Survival Wind Speed	80 KNOTS

MULTI-PAYLOAD TETHERED AEROSTAT (MPTA)

Integrating full ISR capabilities with the flexibility and reduced logistical footprint of smaller aerostats, the MPTA was engineered to provide extended persistent observation with rapid re-deployment, mission flexibility, and operational cost efficiency.

INTEGRATED TECHNOLOGIES

- Fully integrated system w/ multi-point operational redundancy.
- Re-locatable Integrated Mooring System (RIMS) expands ease and breadth of operations.
- Automated pressurization and telemetry system minimizes user interaction.
- Robotic mooring, launch, and recovery enables simple two-man operation.
- Moving maps software integrates geo-location for simplified operation.
- Ground Control Station (GCS) for data analysis with Laptop Control Unit (LCU).
- Network Attached Storage (NAS) capable of storing 24 hours of surveillance video.
- Ability to interface with military networks to distribute target information.



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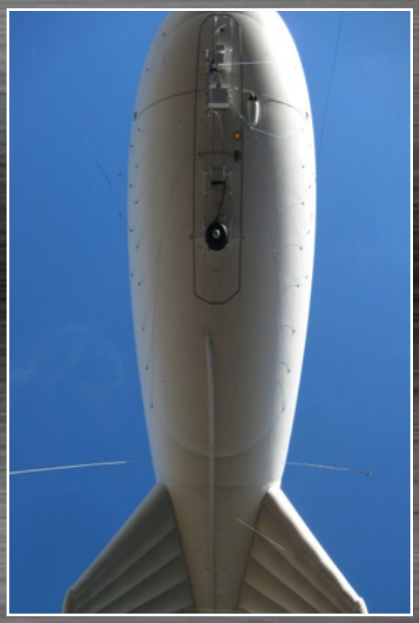
MPTA ON RIMS



DEPLOYED MPTA

CAPABILITIES:

PAYLOAD OPTIONS:

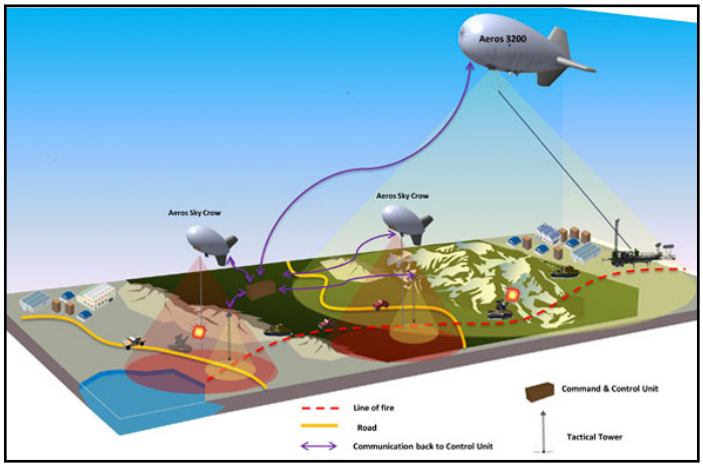
The multi-payload platform accommodates payloads up to 300kg at 1,500m operational altitude, with extended 20+ day persistent monitoring mission durations. The system features persistent monitoring, severe environmental survivability, rapid re-deployment, adjustable mission payloads, and a self-sustained fully integrated ground control system networked with fiber optic information relays. For full system transport and re-deployment the MPTA's re-locatable integrated mooring system (RIMS) offers unmatched performance, while the integrated remote winch automates mast release for single user operation.

SYSTEM INTEGRATION OPTIONS:

THE MULTI-PAYLOAD TETHERED AEROSTAT OFFERS FLEXIBLE PAYLOAD OPTIONS, SUPPORTING A VARIETY OF PACKAGES ON ITS EASY-MOUNT RAIL:

ALL PACKAGES ARE FULLY INTEGRATED FOR SIMPLIFIED OPERATOR PROFICIENCY INTO THE MOVING MAPS SOFTWARE.

NETWORK INTEGRATION



This flexible airborne asset compliments a multi-layered and cost-efficient approach to persistent reconnaissance, disseminating wide area intelligence and tactical maps in near real time to other systems and commanders, whether they're in the field or back at headquarters. The system empowers continuous situational awareness and data dissemination, as well as recording for post-mission analysis and prosecution assistance.

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PAYLOAD OPTIONS:

MULTI-MODE RADAR
- GMTI
- Priority track
- Long range search
- Small target mode

MOVING MAPS

Integrates all sensors into single user interface. Enables cueing of integrated sensors to one another.

LONG RANGE EO/IR
- Full HD
- Gyro stablized
- Daytime 30 KM
- Nighttime 20 KM

SHORT RANGE EO/IR

Recognition Range:
- Daytime 7 KM
- Nighttime 2 KM

COMMS SUITE
- Radio retransmission
- Wi-Fi
- Cell phone detector
- Frequency jammer

WIRELESS ANTENNA
- 20 or 50 mile LOS
- Resists jamming and interference
- Available L band to Ka band

GUNSHOT DETECTION
- Superior detection
- Single shot, burst fire, and multiple shooter recognition
- 360° field of view
- Reports threat weapon classification

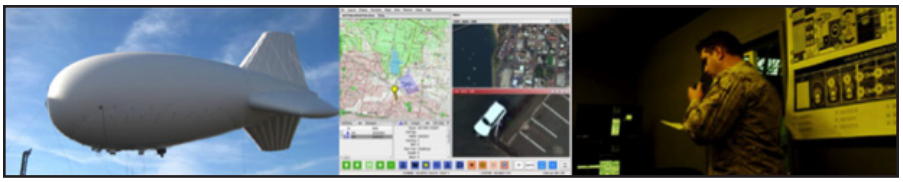
NON-LETHAL WEAPON
- LRAD
- Lasers
- High power electro-magnetic pulse

REMOTE WEAPON

Remotely operated weapon system (ROWS) supports various weapons.

LIGHTING SYSTEM
- Flood lights
- Enhanced operation duration
- Situational Awareness
- Aerial environmental illumination

GROUND CONTROL STATION
- Localized Command & Control
- Interface with network
- Distributes target information
- Monitor Situational Awareness
- Climate controlled operations center



RIMS AND GROUND CONTROL SYSTEM:

The Re-locatable Integrated Mooring System (RIMS) and ground control system offer the operator the ability to perform otherwise difficult tasks with the simplicity of robotic automation. Launch, retrieval, and re-location become a two-manned operation, and monitoring a single-user task, as the fully integrated system offers drivability for the operator along with a fiber optic information relay for constant threat monitoring and situational awareness.

INTEGRATED TECHNOLOGIES:

- Powered tether enables extended time-on-station providing situational awareness for long duration missions.
- Fiber optic information relay enhances downlink quality and speed.
- Mechanized Launch and Recovery system speed operational efficiency.
- Mobile platform offers simple re-location.
- Ground control system data consolidation establishes mobile strategic command.

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MPTA MOORED ON MAST

MPTA ON RIMS

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