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SKY DRAGON

A I R S H I P



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40E SKY DRAGON

A I R S H I P

Today's modern airships are highly mobile, flexible, quiet and stable elevated sensor platforms, presenting extended time-on-station advantages when delivering wide-area perspective of the air and ground environment.

USEFUL PAYLOAD:	1,000 KG / 2,200 LBS
ENVELOPE VOLUME	3,200 M ³ / ~113,00 FT ³
RANGE:	510 KM/ ~275 NM
PROPULSION:	TWIN ENGINE / VECTORED (160HP X 2)
ENGINE:	LYCOMING AEIO-320-D
MAX SPEED:	92 KPH / 50 KNOTS
CEILING:	3,050 M / 10,000 FT
SEATING:	1 + 6
CREW:	SINGLE PILOT OPERATION
OPERATION:	VFR / IFR (DAY/NIGHT)

TYPE CERTIFIED BY:
United States Federal Aviation Administration
& civil aviation authorities: in Europe, Asia, Americas



REVOLUTIONIZING OPERATIONAL FLEXIBILITY

The 40E is a game-changing airship. It will be transformative and liberating with respect to traditional ground crew requirements, and requires a single pilot for operations. Whether serving border and port security, maritime patrol, event or critical infrastructure monitoring, or during use in a related or traditional service. The aircraft's flight capability, vigilant duration and reduced operational sustaining costs will provide unique utility in varied defensive, proactive and responsive roles.

ADVANCED DETECTION & OBSERVATION:

- vigilant threat detection capabilities
- wide-area situational awareness
- real-time actionable intelligence and asset coordination
- efficient, mobile soldier, agency and commercial security support

40E ADVANTAGES:

- stable, effective, mobile & slow loiter platform
- near Vertical Take-Off and Landing (VTOL)
- flexible multi-payload accommodation
- advanced multi-system integration
- minimal manpower and fuel consumption

40E SKY DRAGON TECHNOLOGY & INNOVATION



ADVANCED PROPULSION

The 40E's vectoring (directionally-controlled) propulsion improves pilot handling, reduces takeoff and landing requirements and lessens ground crew requirements, while empowering the vehicle's 500+Km range and speed.



WEIGH-OFF-WHEEL (WOW)

Advanced gear design provides empowering static lift data for pilots, while optimizing dampening force and ground clearance.

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- Vigilant, quiet aerial asset -- for ensuring national security and public safety
- Mission proven & budget attractive
- Threat Detection, Imaging & Documentation, Command Support & Ground Asset Support
- Provides essential operational cost-efficiency
- Obtain more flight hours and aerial monitoring amid reduced operational budgets

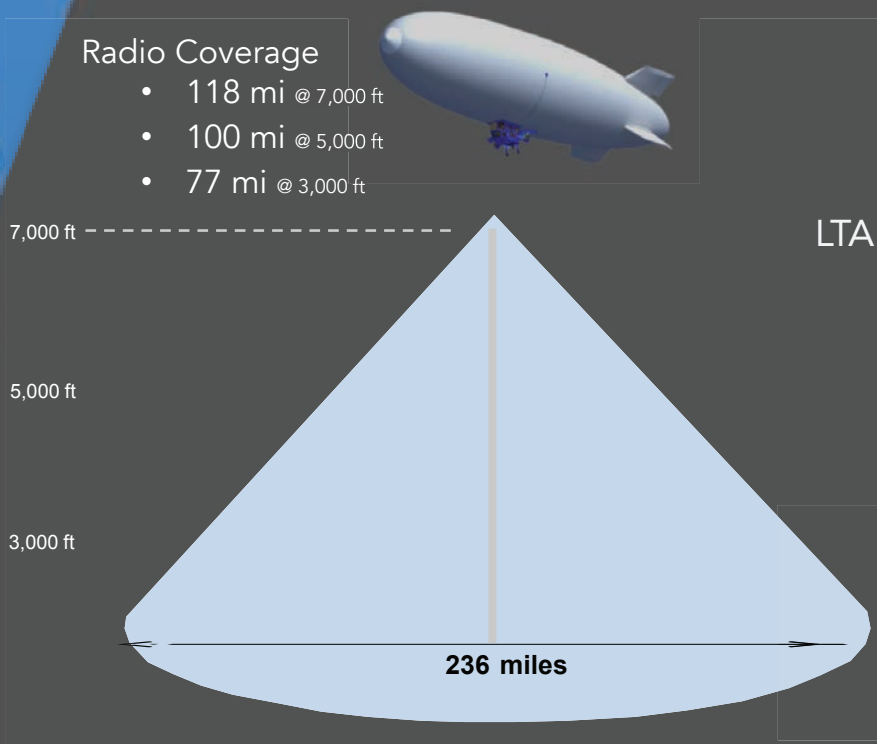
SURVEILLANCE & INTELLIGENCE

Cost effective monitoring and over-border observation; 500km+ range, wide area observation with extended line of sight (LOS)

- Surface Surveillance**
 - Long Ranch Search
 - Priority Track
 - Small Target Mode
- Beacon Detection**
 - Search and Rescue
 - Transponder (SART)
- High-Res Ground Mapping**
 - Geo-Mapped Data
- Moving Target Detection**
 - GMTI

- Target Imaging/Classification**
 - ISAR, Range Profiling
 - EO/IR - 1080P
- Navigation**
 - Real Beam Ground Map
 - Weather Detection
- Acoustic Directional Detection**
 - HD-SDI
- Communications and SigINT**

Airships provide great visibility and mobility, vigilant time on station, & can fly lower and/or slower to support observation and operations



- elevate radar, HD imaging systems, communications equipment, and other sensory technologies
- detect and track air, ground and surface vessels
- obtain multispectral imaging (EO/IR) - day+night

LTA (lighter-than-air) ISR (intelligence, surveillance, recon):

- elevate cost efficiency for vigilant or persistent missions
- rapid deployment and unique flight capabilities
- acquire real-time intel/ data and distribute to air and ground assets, field commanders and data centers



40E SKY DRAGON VERSTILE MISSION SUPPORT



BORDER PATROL & INTERDICTION SUPPORT



LEO, SWAT & PUBLIC SAFETY



MARTIME PATROL & PORT SECURITY



CRITICAL INFRASTRUCTURE MONITORING & BRANDING



EVENT SECURITY & ADVERTISING



WIDE AREA FIRE OPS CMD & COMM SUPPORT

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 stabilized
- » Daytime 30 KM
- » Nighttime 20 KM



SHORT RANGE EO/IR

Recognition Range:

- » Daytime 7
- » Nighttime 2



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 electromagnetic pulse

MOBILE MOORING MAST

- » Mobilize to extend operations
- » COTS equipment reduces costs
- » Optional GCS



GROUND CONTROL STATION

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

The 40E Sky Dragon supports more robust sensory payloads & mission configurations

- **Border Surveillance & Interdiction:** Providing cost effective border monitoring and over-border observation, littoral patrol efficiency, interdiction support, and mission sustainment support. Amid reduced operational budgets, airships can free more expensive air assets for other task delivering a cost efficient alternative for more aerial monitoring flight hours.
- **Maritime:** Use of airships increases visual and sensor range, providing more efficient coordination of surface patrol and asset response. Supports coast guard, counter-trafficking, harbor security, territorial waters/fisheries protection, SAR, and other contingency maritime missions.
- **Security Intelligence:** Airships support area ISR observation for added public safety, with attributions of advertising and media broadcast.
- **LEO/ Public Safety:** Obtain real-time intel/ data and distribute across the domain to air and ground assets, field commanders and data centers. Airship's vigilant flight capability, sensory technology flexibility, near-silent operations, and data/ communications dissemination supports special missions, events and SWAT operations.
- **Infrastructure Monitoring:** Provides aerial efficiency for monitoring large and challenging geographical areas; IR imaging and laser spectrometry inspection for assurance of operational reliability and safety.
- **First Responder:** C&C platform for situational analysis, enhanced communications, ground asset coordination, etc.



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Aeros is interested in advancing your mission, operational effectiveness and bottom line. Our team has experience developing integrated solutions for mission-specific requirements, and advanced development capability to speed solutions to the field. To ensure operational performance without interruption or delay, Aeros provides full integration and maintenance solutions for parts and labor as well as supply chain management for helium, and hangar construction.

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