HERMES 450
AIRBORNE VEHICLE

Performance
Max. mission radius  200 Km
Max. endurance       20 hours
Operational altitude 18 Kft
Max. speed           95 kts
Cruise speed         70 kts
Stall speed          42 kts
Max. rate of climb   900 fpm

Technical data
Wing span           10.5 m
Fuselage length     6.1 m
Takeoff weight      450 kg
Max. usable fuel     105 kg
Max. payload weight 150 kg
Payload volume      300 liters
Payload power available 1.6 kw
Total engine power  52 hp @ 8,000 RPM

Features
▶ A high wing, V tail optimal aerodynamic configuration
▶ Light composite structure
▶ UEL AR-80-1010 rotary engine with a pusher propeller
▶ Redundant flight computer, avionics and power supply
▶ Fully autonomous flight with in-flight redirection
▶ Optional DGPS automatic take-off and landing

PAYLOADS

TESAR
▶ Real time SAR imagery
▶ Wide area coverage, strip & spot
▶ Ground Moving Targets Indication (GMTI)

DSP-1
▶ Stabilized day and night E/O sensor
▶ Provides real - time video imagery
▶ Suitable for low - end performance requirements

COMPASS
▶ Multi stabilized platform: FLIR, B/W or color CCD, optional laser range finder
▶ Provides real - time imagery
▶ Suitable for high - end performance requirements
Features

- Mobile or fixed installation
- Side by side identical (H/W & S/W) consoles for mission and payload control
- Ruggedized COTS H/W
- Advanced friendly MMI

Functions

- Mission planning
- Preflight and postflight
- In-flight mission control
- Payload control
- Payload information processing and storage
- Data link management
- Mission log
- Mission simulation

Major assemblies

- S-280 type shelter including 2 or 3 19" consoles, displays, computers, recorders and hard-copy printer
- External power supply (generator and emergency batteries)
- Tactical communication
- GDT (Ground Data Terminal) on trailer
- RVT (Remote Video Terminal)
- FLT (Flight Line Tester/Loader)

Communication

- Line-Of-Sight (LOS) wide-band digital link with backup
- Integration capability of beyond-Line-Of-Sight (BLOS) wide-band digital satellite link
APPLICATIONS

Military
- Real and non-real time reconnaissance and surveillance
- Artillery fire adjustment
- Communications relay
- Maritime surveillance
- Damage assessment

Non-military
- Drug interdiction
- Coastal patrol
- Environmental supervision
- Border patrol
- Nuclear accident appraisal
- Forest and wildlife inspection
- Meteorological and atmospheric research

Silver Arrow A Subsidiary of
Advance Technology Center P.O.Box 539, Haifa 31053, Israel
Tel. 972 4 8315315, Fax. 972 4 8550002, 8551623, Web site: www.elbit.co.il