

GEC **AVIONICS**

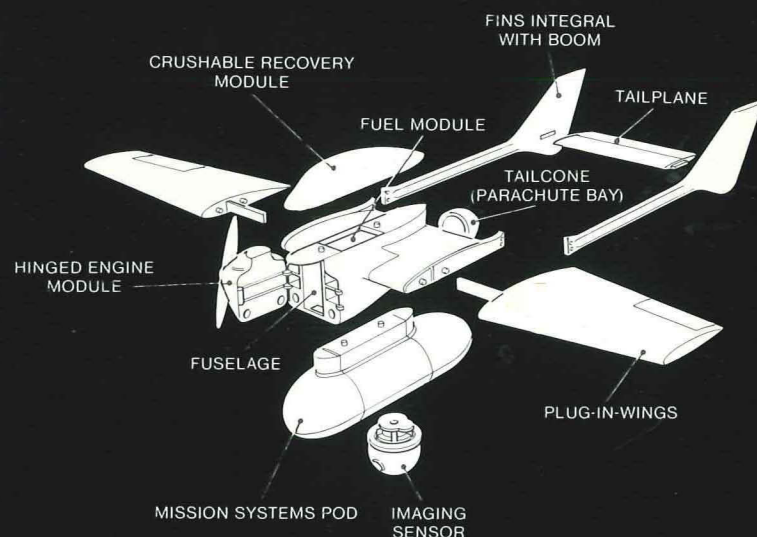
PHOENIX
*Battlefield Surveillance
System*



Phoenix Battlefield Surveillance System

- All weather 24 hour availability
- Minimal manpower requirement
- Quick deployment and breakdown
- Modularised packaging of subsystems

- Comprehensive pre-mission checks
- Automatic operation
- Multimission capability
- Fully militarised



- Data link system and antennae housed to minimise obscuration
- 19 kw output two stroke
- 1 kw electrical power
- Silenced

Flight Control/Navigation

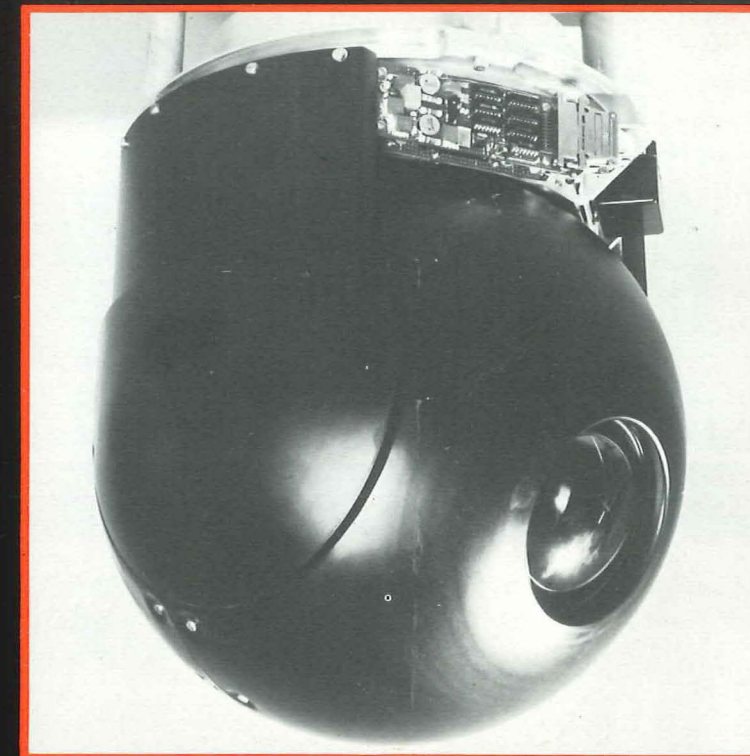
- Autonomous navigation
- Advanced autopilot
- Autostabilisation
- Automatic recovery system
- Self test and air vehicle checkout
- Microprocessor based

- Jam resistant steerable data link
- Compressor cooled sensor offers unlimited usage
- Advanced real time Infra Red Sensor
- Pre-mission test in logistic package

Thermal Imaging Sensor

- Far infra-red 8-13 μm band
- High resolution zoom telescope
- Automatic picture optimisation
- Gyro stabilised for high picture quality
- Unlimited rotation in azimuth and elevation
- 625 line 50 Hz or 525 line 60 Hz video standard compatible
- Uses advanced 'SPRITE' detector
- External Built In Test

The Phoenix Thermal Sensor turret makes extensive use of modules from the UK Thermal Imaging Common Module Programme coupled to an advanced zoom telescope. Fully automatically or manually controlled from the ground station the imagery can be overlaid with target and sensor data.



Thermal picture taken direct from TV Screen

Air Vehicle

- Long endurance > 4 hours
- Large payload capacity > 40 kg
- Low radar/IR/acoustic/visual signatures
- Integral parachute recovery system
- Low cost modular construction
- Advanced composite materials

Powerplant

- Fuel injected and electronic ignition for low SFC and good start-up

Mission Fit

- Poded mission system enables fast role change
- Mission pod roll compensated for horizon up imagery and greater picture stability
- Real time imagery

Ground Control Station

- Three man operation
- VDU based graphics and imagery
- Advanced digital map display
- Menu driven operation
- Automated air vehicle control
- NBC protection
- C³ interface for rapid dissemination of intelligence

Ground Data Terminal

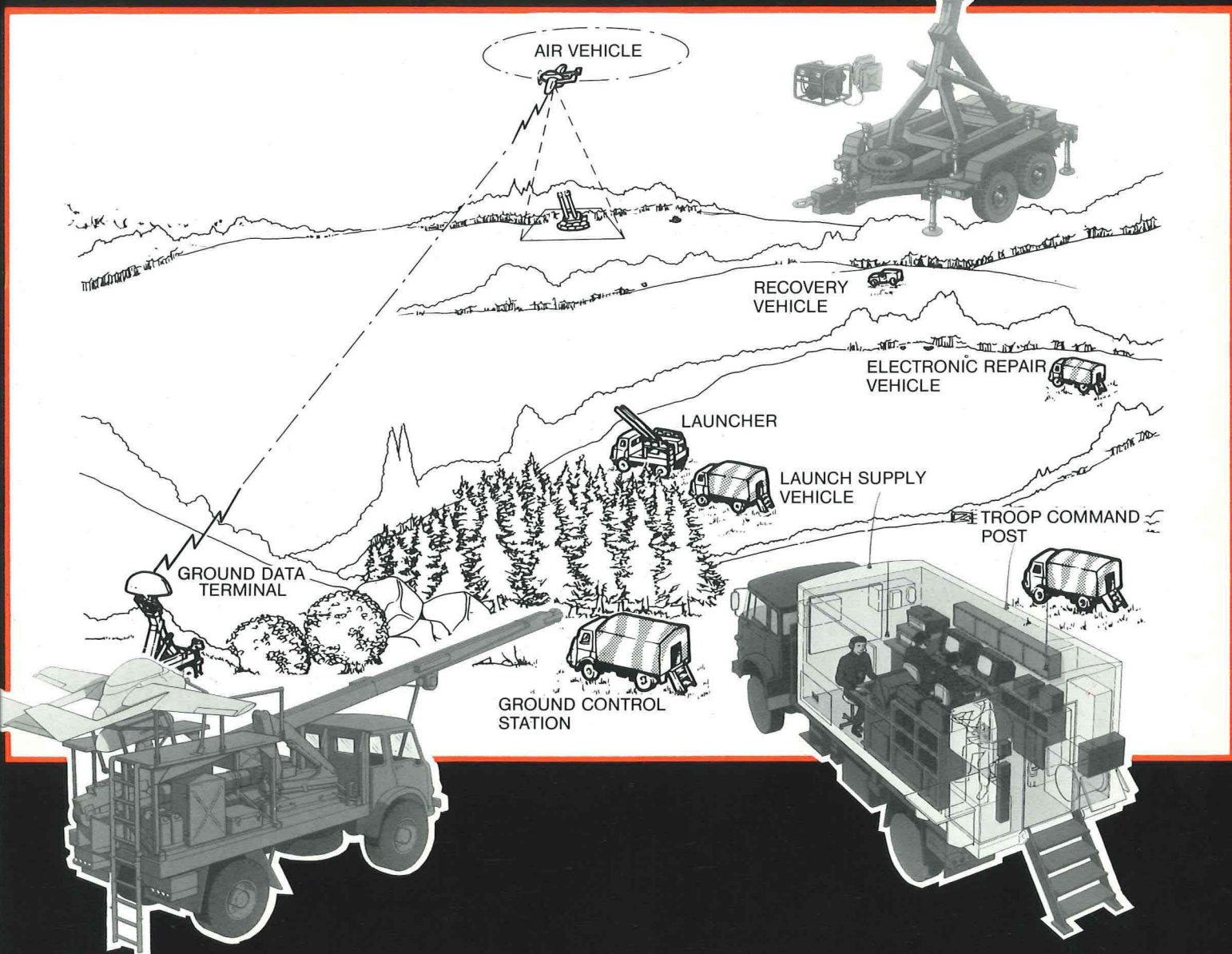
- Remote location from Ground Control Station
- Provides jam resistant two-way data link
- Fully automatic and unattended in operation
- Quick set up

The Phoenix System offers full capability in Battlefield Surveillance and Target Acquisition. GEC Avionics was awarded the Development and Production Contract by the United Kingdom Ministry of Defence in 1985.

GEC Avionics as Prime Contractor will be responsible for supplying the first fully equipped day/night real time remote targetting and battlefield surveillance system for the British Army. The system comprises a small rugged Air Vehicle with advanced avionics and an infra red imaging system, a

secure data link, a mobile Ground Control Station and logistic vehicles for launch, recovery and system support. The system offers the unique feature of a mission pod enabling the system to cater for a range of alternative roles without airframe modification.

The team of contractors led by GEC Avionics have over 25 years of experience in unmanned aircraft systems and sensors.



This document gives only a general description of the product(s) and shall not form part of any contract.

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