

VIGILANT® UAV SYSTEM

Use: Multi Role Free Flying Surveillance System

The Unmanned Air Vehicle Security & Intelligence (UAVSI), **VIGILANT** UAV SYSTEM is a sophisticated and highly reliable information gathering tool. Operational in most conditions and over both land and sea, **VIGILANT** can be utilised to collect various different forms of data via its state of the art sensors. UAVSI has experience over 26 years in producing various types of UAV's.

Operated in full automatic mode, the flight is pre programmed before take off for completely autonomous flight to ranges in excess of 80 Km. Utilising UAVSI's own digital flight control system incorporating Global Positioning System (GPS) and Inertial Navigation System (INS) for navigation, and controlling using the Tactical Control Station (TCS), the **VIGILANT** UAV System is one of the most capable information gathering systems available. The system can be quickly deployed and is configured for fully automatic operations, in both day and night time conditions.

Fitted with a latest generation twin sensor fully stabilised gimbal VIGILANT UAV System is one of the most capable platforms in the market. A 'quick-change' mission pod system allows for multi-mission capability.

VIGILANT operator flight training programs are carried out to customer's individual requirements.



"Ever reliant, ever ready, ever Vigilant"

VIGILANT UAV



VIGILANT UAV ready for take off





VIGILANT UAV INFORMATION:

Wingspan	3.2m (10ft 6ins)
Wing Area	1.0m ² (10ft 8ins ²)
Length	2.5m (8ft 2ins)
Height	0.45m (1ft 6ins)
Typical weight	>9.5Kg (20.1lb) max 20Kg (44lb)
Construction	Carbon-Kevlar composite with Honeycomb Nomex
Power Unit	Battery, rechargeable
Endurance	>120 mins (according to flight parameters)
Power plant	UTSL single electric motor
Speed range	13 – 38 m/s (48 - 140 Kph) (30 - 87 mph) (26 - 75 Kt)
Launch	Man Portable Lightweight Catapult (not rubber)
Payload capabilities:	CCD Camera (SONY) - Stabilised Thermal Imager - Stabilised Multi/Hyper Spectral Camera Fixed Forward Looking CCD Camera “Quick-change” mission pod Customer specified mission equipment

SYSTEM PERFORMANCE INFORMATION:

Operating range	>80Km (50 miles), extendable
Surveillance Details	Real time surveillance to >80Km (50 miles), extendable
Command & Control	Spread spectrum frequency hopping
Video Link/Format	Sophisticated COFDM, IP output, encrypted, - according to customer requirements
Altitude	Max >3000m (9,800ft) Min 40m (130ft) (typically)
Recovery	Autonomous skid landing with emergency recovery system (air reg's.)
Tracking	GPS/INS with full telemetry, including flight data recording etc.
Control	Fully automatic pre programmed flight with auto landing