

# K9-eye *GPS*

## MILITARY DOG CAMERA SYSTEM



'Vee'



The K9-eye GPS is the latest and most advanced version of the well established FIDO range of Military and Police dog camera systems, embodying a secure communication link with real-time GPS tracking of the dog.

Very light weight, the total load carried by the dog is less than 500g

Applications of this system include IED detection and location; battlefield and urban disaster casualty location, and out-of-sight patrol conditions in both urban and field situations.

**K9-eye dog camera systems are designed and manufactured in the UK by Video Technology Ltd.**

The system comprises two parts, a dog-mounted camera with a miniature radio transmitter, and a receiver/recorder unit carried by the handler.

A GPS satellite tracking module is fitted to the camera unit, allowing the dog's location to be monitored by the handler. The GPS module can be detached for indoor use, where a signal is not normally received.

#### Camera, GPS module and harness assembly:

The camera assembly and battery are contained in a moulded case, which fits to the head harness worn by the dog. The camera produces colour pictures, and also has infra-red lights which allow it to continue operation, (showing black-and-white images) even in total darkness, providing covert observation and not revealing the dog's position.

#### Receiver/recorder/monitor unit:

This unit comprises a receiver for the picture and GPS signal, and a display to view the images.

Pictures from the dog camera are viewed side-by-side with either a map or satellite picture of the area, and the dog's location is displayed in real time on the second display.

The receiver has a differential GPS (DGPS) capability, and depending on the availability of GPS satellite visibility, a position accuracy of a few decimetres can be achieved. Position data is updated every second.

The position of any point of interest observed on the live picture can be marked for later examination, and all data can be recorded. Calling up a marked location shows an image of the object of interest in the picture window, and the GPS co-ordinates are also shown. With this information, personnel can be directed to the location with a very high degree of accuracy; following the dog's track if required.

The K9-eye system can be configured to meet the requirements of different users, for instance with alternative sensors such as thermal imagers, and can also be supplied in a man-carried form.

## Specifications

Camera unit:	Miniature solid-state unit, 1/4" CMOS colour sensor.
Housing:	Rugged, moulded unit, containing camera, transmitter unit, battery, Infra-red lights. Detachable antenna for easy field replacement in case of damage. Battery life is 1-1 <sup>1/2</sup> hours in normal use. Attaching camera to harness automatically activates unit.
GPS module:	DGPS receiver and antenna in small, detachable unit allowing removal when not required.
Head harness:	Nylon webbing with buckle and Velcro adjustment, has quick-release mounting for camera housing allowing harness to be worn at all times, but camera only when required.. Available in 3 sizes to suit different breeds of dog.
Weights:	Camera housing assembly: 240g Harness: 150g
Recorder/receiver/monitor unit:	Compact unit comprising omni-directional diversity antenna system, receiver/recorder/monitor unit with large 10" screen, in rugged weatherproof case. Dual-display screen shows live pictures and GPS track on map simultaneously. All data can be recorded and replayed on unit, or transferred to external storage device via USB port. Battery life is up to 6 hours.
Security:	The COFDM technology provides exceptionally secure transmission, and GPS co-ordinates, time and date are shown on picture.
Weight:	Approx.3Kg
Digital wireless link:	1- 1.4 GHz, COFDM ( <b>C</b> oded <b>O</b> rthogonal <b>F</b> requency <b>D</b> ivision <b>M</b> ultiplexing) provides high reliability and exception security against interception.. Transmission powers available: 60mW, 250mW
Range:	Range will depend entirely on the local environment and transmitter power, but in clear field conditions, up to 1 Km (0.6 mile) can be expected. In general terms, the handler will normally be sufficiently close to the dog that a signal will be available at all times.

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